402 VLZ3 Parts List
December 2007

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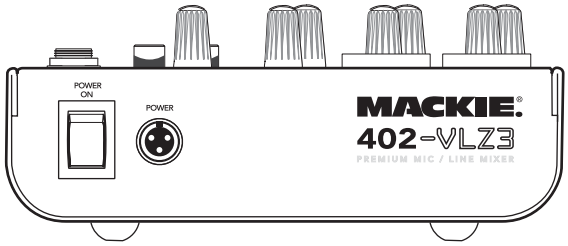

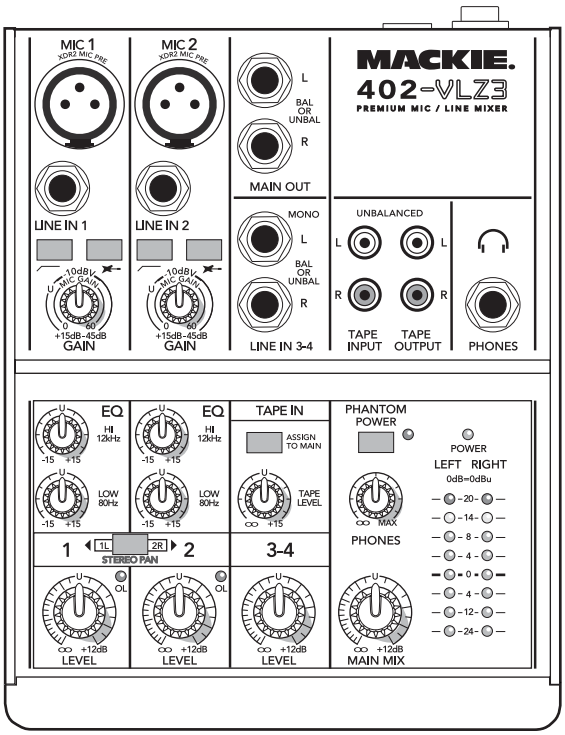

0027489-00 REV 004 402 VLZ3 MIXER - USA

	PART#	REV	DESCRIPTION	QTY	NOTES
	0025510	301	402 VLZ3 FINAL ASSEMBLY	1	SEE NEXT PAGE
⚠	0028090-00	003	POWER SUPPLY 18.5VACX2/350MA US	1	POWER SUPPLY - USA

The European, Japanese, UK, Australian, and Canadian models have the same parts as the USA model except as shown below:

0027489-01 REV 004 402 VLZ3 MIXER - EUROPE

	PART#	REV	DESCRIPTION	QTY	NOTES
⚠	0028090-01	003	POWER SUPPLY 18.5VACX2/350MA EUROPE	1	POWER SUPPLY - EUROPE

0027489-02 REV 004 402 VLZ3 MIXER - JAPAN

	PART#	REV	DESCRIPTION	QTY	NOTES
⚠	0028090-02	003	POWER SUPPLY 18.5VACX2/350MA JAPAN	1	POWER SUPPLY - JAPAN

0027489-03 REV 004 402 VLZ3 MIXER - UK

	PART#	REV	DESCRIPTION	QTY	NOTES
⚠	0028090-03	003	POWER SUPPLY 18.5VACX2/350MA UK	1	POWER SUPPLY - UK

0027489-04 REV 004 402 VLZ3 MIXER - AUSTRALIA

	PART#	REV	DESCRIPTION	QTY	NOTES
⚠	0028090-04	003	POWER SUPPLY 18.5VACX2/350MA AUSTRALIA	1	POWER SUPPLY - AUSTRALIA

0027489-05 REV 004 402 VLZ3 MIXER - CANADA

	PART#	REV	DESCRIPTION	QTY	NOTES
⚠	0028090-05	003	POWER SUPPLY 18.5VACX2/350MA CANADA	1	POWER SUPPLY - CANADA

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

0025510 REV 301 FINAL ASSEMBLY

PART#	REV	DESCRIPTION	QTY	NOTES
0027005-00	A01	MAIN PCB ASSEMBLY	1	SEE PAGES 4-7
0027641	200	ASSEMBLY CONN POWER 3 PIN MINI THREAD LOCK	1	SEE PAGE 7
0027531	200	CABLE ASSEMBLY PC POWER	1	SEE PAGE 7
0027494-00	600	CHASSIS TOP	1	
0027495-00	200	CHASSIS BOTTOM	1	
0027496-00	300	ENDCAP FRONT	1	
0021204-06	A01	SCR M3 X 6MM TF - PLASTIC PAN PH BLKZC STEEL	4	ENDCAP FRONT MOUNTING
700-011-00	A	MCH 4-40X1/4 BTNSKT BLKOX	6	PCBA MOUNTING
701-016-00	A	5-20X5/16 PHPII TYP B BLACK	5	XLR MOUNTING
710-002-00	B	WASHER-SPLD W/400-214-00	7	1/4” AUDIO JACK
705-003-00	B	NUT HEX-SPLD W/400-214-00	7	1/4” AUDIO JACK
0000620-06	C00	SCREW M3 X 6MM FLT 90 DEG MCH PH STL CLRZC	8	CHASSIS TOP TO BOTTOM (SIDE)
0015272	A00	FOOT 8-32 BLACK 1/2 DIA X 1/4H	4	CHASSIS BOTTOM
0008297-01	C00	KNOB ANALOG LONG SHAFT WHITE 100	2	
0001381-03	D00	ANALOG KNOB MILLENNIUM BLUE 320	4	
0001381-05	D00	ANALOG KNOB MILLENNIUM WHITE 100	2	
0008174-05	B00	LARGE ANALOG KNOB WHITE 100	4	

0027005-00 REV A01 MAIN PCB ASSEMBLY

	PART#	REV	DESCRIPTION	QTY	REF DESIGNATORS
	760-109-00	B00	BUTTON 2 COLOR 9X5MM W/EXT	4	BTN1, BTN2, BTN3, BTN4
	760-107-00	D00	BUTTON 2 COLOR 9X5MM [GREY 125 TOP - WHITE BTM]	3	BTN5, BTN6, BTN7
	220-003-02	B	CAP LYT 47UF 20% 50V RAD TR	6	C1, C2, C3, C5, C29, C32
	212-036-00	B1	CAP CER 470PF 2% 50V NPO SMT	4	C4, C7, C114, C116
	220-027-02	B1	CAP LYT 10UF 20% 50V RAD TR	4	C6, C20, C73, C74
	220-002-02	A1	CAP LYT 47UF 20% 25V RAD TR	40	C8, C22, C23, C26, C27, C28, C30, C39, C40, C42, C43, C49, C50, C51, C52, C53, C56, C57, C58, C59, C60, C61, C64, C65, C66, C69, C75, C76, C81, C87, C88, C89, C92, C96, C99, C101, C102, C103, C104, C106
	212-018-00	B1	CAP CER 10PF 5% 50V NPO SM	6	C9, C10, C14, C15, C82, C86
	212-010-00	B1	CAP CER .1 +80/-20 25V Z5U SM	44	C11, C12, C80, C111, C112, C113, C115, C121, C124, C127, C129, C131, C132, C135, C136, C140, C141, C142, C143, C144, C145, C146, C147, C148, C149, C150, C151, C152, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C165, C166, C167, C168, C169, C170
	212-019-00	B1	CAP CER 150PF 5% 50V SM	4	C16, C17, C19, C128
	220-007-00	B1	CAP LYT 100UF 20% 100V RAD	1	C18
	0007875	A00	CAP LYTIC 100UF 63V 20%	2	C24, C25
	212-042-00	A1	CAP CER 470PF 5% 50V NPO SM	6	C31, C41, C108, C110, C117, C118
⚠	200-019-02	A	CAP PLY/BX .1UF 10% 63V TR	8	C33, C34, C35, C36, C44, C45, C77, C78
	212-005-00	B1	CAP CER 20PF 5% 50V NPO SM	10	C37, C38, C46, C47, C67, C68, C71, C72, C138, C139
	0008783	A00	CAP LYTIC 3300UF 6.3V 20% 10X20	2	C54, C55
⚠	200-011-02	B	CAP PLY .0022UF 10% 100V TR	2	C62, C63
	212-003-00	B1	CAP CER 100PF 5% 50V 0805 SMT	10	C70, C79, C83, C84, C95, C97, C130, C133, C134, C137
	212-004-00	C1	CAP CER 220PF 5% 50V NPO SM	8	C85, C93, C94, C98, C100, C105, C107, C109
	212-025-00	D1	CAP CER .1UF 50V 10% X7R	4	C90, C91, C163, C164
	212-034-00	A1	CAP CER .022UF 10% 100V X7R	2	C119, C122
	212-001-00	B1	CAP CER .01UF 10% 50V X7R SM	4	C120, C123, C125, C126
	0004136	A00	DIODE RECTIFIER 1A GLASS PASSIVATED S1B	21	D1, D2, D3, D4, D31, D32, D33, D34, D35, D36, D37, D38, D39, D40, D41, D42, D43, D44, D45, D46, D47
	0004125	A00	DIODE SURFACE MOUNT FAST SWITCHING 1N4148W 75V	2	D5, D6
	302-001-00	A	DIODE ZENER 1N5261B 47V 500MW	1	D7
⚠	304-027-02	C00	LED RED W/.425 SPACER TR	5	D8, D12, D13, D20, D21
⚠	304-029-02	C00	LED GREEN W/.425 SPACER TR	13	D9, D16, D17, D18, D19, D22, D23, D24, D25, D26, D27, D28, D29

continued

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Main PCB Assembly continued

	PART#	REV	DESCRIPTION	QTY	REF DESIGNATORS
	300-011-03	A	DIODE SIGNAL DUAL BAV99	3	D10, D11, D30
⚠	304-028-02	C00	LED YELLOW W/.425 SPACER TR	2	D14, D15
	400-464-00	AO2	CONN JACK 1/4 V PCMNT 1MM WASHER	7	J1, J4, J5, J6, J7, J9, J10
	0001448	A00	CONN XLR PCB MNT	2	J2, J3
	400-022-00	A	CONN RCA QUAD PCMNT	1	J8
	601-043-00	A01	IND CHOKE COMMON MODE 15MH	2	L1, L2
	0000094	A00	IND FERRITE 120OHM 200MA 0.15DCR 0805 SMT	4	L3, L4, L5, L6
	601-002-00	A	IND 4.7UH AX	2	L7, L8
	0005168-03	A00	CONN HDR 3P .098X1 SHRD TJC3	1	P1
	0005168-04	A00	CONN HDR 4P .098X1 SHRD TJC3	1	P2
	0027004-00	A00	PCB FAB 402 VLZ3	1	PCB1
	311-002-00	A	XSTR PNP MMST4403 SMT	10	Q1, Q2, Q4, Q6, Q8, Q10, Q13, Q15, Q16, Q17
	310-003-02	B2	XSTR PNP 2SA1316 AMMO PK	4	Q3, Q5, Q7, Q9
	311-008-00	A	XSTR NPN 2SC3645	1	Q11
	311-001-00	B	XSTR NPN IMBT4401 SMT	2	Q12, Q14
	145-215-00	B	RES MF SM .1W 1% 169 OHM	2	R1, R17
	145-351-00	B	RES MF SM .1W 1% 4K02 OHM	8	R2, R3, R21, R22, R62, R64, R198, R199
	115-081-00	A	RES MF .25W 1% 6R81 OHM	6	R4, R5, R6, R7, R19, R23
	145-418-00	B	RES MF SM .1W 1% 20K0 OHM	8	R8, R9, R38, R39, R162, R163, R186, R187
	145-331-00	B	RES MF SM .1W 1% 2K49 OHM	14	R10, R13, R121, R123, R129, R131, R132, R133, R134, R135, R136, R137, R138, R139
	115-373-00	A	RES MF .25W 1% 6K81 OHM	4	R11, R12, R14, R15
	145-361-00	B	RES MF SM .1W 1% 5K11 OHM	10	R16, R18, R20, R45, R125, R126, R143, R145, R154, R194
	143-389-00	A1	RES TF 10.0K 1% 0.1W SMT	25	R24, R25, R27, R28, R34, R35, R36, R37, R79, R80, R84, R85, R115, R147, R149, R150, R151, R153, R155, R156, R158, R165, R166, R179, R183
	140-073-00	A	RES TF SM .1W 5% 1K0 OHM	2	R26, R29
	130-074-03	A00	POT ROTARY 10KZY 9MM MONO REVISED TAPER	2	R30, R31
	110-013-00	A	RES CF .25W 5% 33 OHM	2	R32, R33
	140-057-00	A	RES TF SM .1W 5% 220 OHM	6	R40, R41, R189, R190, R218, R219
	140-083-00	A	RES TF SM .1W 5% 2K7 OHM	1	R42
	143-435-00	A1	RES TF 30.1K 1% 0.1W SMT	4	R43, R48, R57, R191
	0007855	A00	RES POT 20K 50% LINEAR B W/DETENT	4	R44, R46, R61, R63
	145-373-00	B	RES MF SM .1W 1% 6K81 OHM	8	R47, R52, R58, R68, R74, R86, R204, R206

continued

Main PCB Assembly continued

PART#	REV	DESCRIPTION	QTY	REF DESIGNATORS
143-261-00	A1	RES TF 511 1% 0.1W SMT	7	R49, R70, R71, R81, R113, R114, R205
140-025-00	A	RES TF SM .1W 5% 10 OHM	2	R50, R51
141-081-00	B00	RES MF SM .25W 5% 2K2 OHM	1	R53
140-123-00	A	RES TF SM .1W 5% 100K OHM	10	R54, R55, R146, R148, R195, R196, R202, R207, R216, R217
143-373-00	A1	RES TF 6.81K 1% 0.1W SMT	12	R56, R59, R67, R69, R72, R75, R93, R99, R197, R200, R203, R210
0007853	A00	RES POT DUAL 10K 25% LOG K	2	R106, R107
130-061-02	B	POT 50KG 12MM DUAL WO SLV	2	R65, R66
143-356-00	A1	RES TF 4.53K 1% 0.1W SMT	1	R73
145-318-00	B	RES MF SM .1W 1% 2K00 OHM	6	R76, R87, R88, R95, R100, R112
143-328-00	A1	RES TF 2.32K 1% 0.1W SMT	1	R78
143-281-00	A1	RES TF 825 1% 0.1W SMT	1	R83
142-123-00	A1	RES TF 100K 5% 0.1W SMT	4	R89, R90, R208, R209
145-264-00	A00	RES TF 549 1% 0.1W SMT 0805	5	R91, R97, R98, R201, R215
145-273-00	B	RES MF SM .1W 1% 681 OHM	2	R92, R111
0007876	A00	RES SMT 5% 3K9 OHM 1210	2	R94, R96
143-244-00	A01	RES TF 340 1% 0.1W SMT	2	R101, R103
0007859	A00	RES POT 10K 25% LOG K	2	R104, R105
143-215-00	A01	RES TF 169 1% 0.1W SMT	1	R108
143-169-00	A01	RES TF 56.2 1% 0.1W SMT	1	R110
145-201-00	B	RES MF SM .1W 1% 121 OHM	2	R116, R127
140-114-00	A00	RES TF SM .1W 5% 47K OHM	2	R117, R140
141-051-00	B	RES TF SM .25W 5% 120 OHM	6	R118, R141, R171, R172, R175, R178
145-339-00	B	RES MF SM .1W 1% 3K01 OHM	4	R119, R120, R122, R124
140-065-00	A	RES TF SM .1W 5% 470 OHM	4	R128, R130, R142, R144
141-089-00	B00	RES MF SM .25W 5% 4K7 OHM	1	R152
145-581-00	B	RES MF SM .1W 1% 1M0 OHM	4	R157, R159, R167, R169
140-043-00	A00	RES MF SM .1W 5% 56 OHM	1	R160
140-091-00	A	RES TF SM .1W 5% 5K6 OHM	1	R161
146-418-00	A00	RES MF SM .25W 1% 20K0 OHM	1	R164
143-394-00	A1	RES TF 11.3K 1% 0.1W SMT	2	R168, R170
143-355-00	A1	RES TF 4.42K 1% 0.1W SMT	2	R173, R174
145-051-00	B	RES MF SM .1W 1% 3R32 OHM	2	R176, R177
143-437-00	A1	RES TF 31.6K 1% 0.1W SMT	2	R180, R184
143-399-00	A1	RES TF 12.7K 1% 0.1W SMT	2	R181, R185
143-474-00	A1	RES TF 76.8K 1% 0.1W SMT	2	R182, R188
140-139-00	A	RES TF SM .1W 5% 470K OHM	2	R192, R193
143-447-00	A1	RES TF 40.2K 1% 0.1W SMT	2	R211, R213
143-375-00	A1	RES TF 7.32K 1% 0.1W SMT	2	R212, R214
0000162	A	SWITCH 12POS ROTORY PC MNT	7	SW1, SW2, SW3, SW4, SW5, SW6, SW7

continued

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

Main PCB Assembly continued

	PART#	REV	DESCRIPTION	QTY	REF DESIGNATORS
⚠	321-009-00	A01	IC REG LM337T ADJ	1	U1
	320-006-00	A01	IC OP AMP NJM2068M DUAL SO8	5	U2, U3, U4, U14, U18
⚠	321-008-00	C01	IC REG LM317T ADJ	1	U5
	0009079	A00	IC OPAMP DUAL TL072	6	U6, U7, U10, U12, U13, U16
	0006956	A00	IC DUAL OP AMP NJM#4580M	7	U8, U9, U11, U19, U20, U21, U23
	323-002-00	C01	IC LM339D QUAD COMP SM	4	U15, U17, U22, U24
	660-002-00	A	CABLE 24GA JUMPER WIRE TR	20	W1, W2, W3, W4, W5, W6, W7, W8, W9, W10, W11, W12, W13, W14, W15, W16, W17, W18, W19, W20
	143-354-00	A1	RES TF 4.32K 1% 0.1W SMT	1	R60
	143-445-00	A1	RES TF 38.3K 1% 0.1W SMT	2	R77, R82
	140-104-00	A	RES TF SM .1W 5% 20K OHM	2	R102, R109
	706-033-16	A	STDF SWAGE NO.4 X .978L F	1	SO1
	706-033-01	D	STDF SWAGE NO.4 X .542L F	5	SO2, SO3, SO4, SO5, SO6
	0013103	A00	CAP LYTIC 1000UF +/-20% 35WV PTH	2	C13, C21

0027641 REV 200 POWER CONNECTOR 3-PIN MINI THREAD LOCK ASSEMBLY

PART#	REV	DESCRIPTION	QTY	NOTES
0028904	200	3-PIN POWER CONNECTOR	1	INSTALLS TO TOP ASSEMBLY
0005167-03	A00	CONN RECP 3P .098X1 TJC3	1	CONNECTS TO PCB
0013722-03	A00	WIRE RIBBON 26AWG3 CONDUCTOR	1	
0005166	A00	CONN TERM TJC3 22-28AWG TR	3	

0027531 REV 200 CABLE ASSEMBLY PC POWER

PART#	REV	DESCRIPTION	QTY	NOTES
0029143	200	SW POWER DPST 10A 125V	1	
0005167-04	A00	CONN RECP 4P .098X1 TJC3	1	
0005166	A00	CONN TERM TJC3 22-28AWG TR	4	
0013722-04	A00	WIRE RIBBON 26AWG4 CONDUCTOR	1	
740-001-00	A	TYRAP 3-1/4L	1	

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