

# ONYX·1640

## Parts List

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0008514	A03	FINAL ASSEMBLY	2
0007796-00	B00	POWER SUPPLY SUBASSEMBLY	4
0007588-00	A05	UNIVERSAL SUPPLY PCB ASSEMBLY	5
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Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.



## 0008514 REV A03 FINAL ASSEMBLY

PART#	REV	DESCRIPTION	QTY	NOTES
0001381-01	C00	ANALOG KNOB MILLENNIUM RED 210	34	
0001381-02	C00	ANALOG KNOB MILLENNIUM MILLENNIUM GREEN	36	
0001381-03	C00	ANALOG KNOB MILLENNIUM BLUE 320	64	
0001381-05	C00	ANALOG KNOB MILLENNIUM WHITE 100	57	
0001381-06	C00	ANALOG KNOB MILLENNIUM BLACK 00	16	
0001381-07	C00	ANALOG KNOB MILLENNIUM ORANGE	34	
 0007597	A00	SWITCH ROCKER DPST POWER 250V 6A 0/1	1	
 0007796-00	B00	SUBASSY, ONYX 1640 SUPPLY	1	SEE PAGE 4
0009475-01	A00	SCREW M3.5 X 8MM TRUSS HD MCH PHIL SS BLK	58	
0007959-00	B00	PCB ASSY POD	1	SEE PAGE 7
0007961-00	B00	PCB ASSY, EQ	1	SEE PAGE 12
0007963-00	C00	PCB ASSY, FADER	1	SEE PAGE 23
0007965-00	B00	PCB ASSY, METER,	1	SEE PAGE 29
0008168-00	B00	PCB ASSY, SUMMING AMP	1	SEE PAGE 30
0008186-00	A00	PCB ASSY, DIRECT OUT	1	SEE PAGE 32
0008233	A00	CABLE ASSY 8 PIN 2.5MM TJC3 SINGLE ROW 1.75 IN	8	
0008234	A00	CABLE ASSY 3 PIN 2.5MM TJC3 SINGLE ROW 11 INCHES WITH ONE BARE END	1	
0008241	A00	CABLE ASSY 6 PIN 2.5MM TJC3 SINGLE ROW 6 IN	1	
0008242	A00	CABLE ASSY 2 PIN 2.5MM TJC3 SINGLE ROW 26 INCHES WITH ONE END BARE WIRE	1	
0008243	A00	CABLE ASSY 13 PIN 2.5MM TJC3 SINGLE ROW 3 IN	1	
0008244	A00	CABLE ASSY 15 PIN 2.5MM TJC3 SINGLE ROW 3 IN	1	
0008258	A00	CABLE ASSY 30 PIN DUAL ROW 2MM PHD JST 5.0 IN	1	
0008335	A00	COVER ONYX FIREWIRE SLOT	1	
0008506	A00	CHASSIS MIXER 1604 VLZ2	1	
0008507	B00	TOP MIXER 1640	1	
0008508	A00	CHASSIS POD 1604 VLZ2	1	
0008509	A00	TOP POD ONYX 1640	1	
0008510	A00	PANEL POD I/O ONYX 1640	1	
0008511	D00	PANEL POD BACK 1640	1	
0008512	B00	BRACKET POD MOUNTING 1640	2	
0010597	A00	KEPNUT, M4	16	
0008555	A00	PANEL BOTTOM COVER 1604 VLZ2	1	
0008649	A00	BOX ONYX 1640	1	
0008653	A00	BOX SLEEVE ONYX 1640	1	
0008657-00	100	FOAM LEFT ONYX 1640	1	
0008657-01	100	FOAM RIGHT ONYX 1640	1	
0008669	B00	OWNER'S MANUAL ONYX 1640 - ENGLISH	1	
0008760	A00	LIP SEAL ONYX 1640	1	
 400-286-00	A	IEC MALE RECP 10A 187QK	1	
 640-001-00	D	LC IEC SJT 10A/125V 6FT	1	
 640-002-01	B	LC EURO 10A 250V 6FT 7IN	1	
790-011-00	A	BAG POLY 20 X 7 X 30 4MIL	1	

continued...



final assembly continued..





PART#	REV	DESCRIPTION	QTY	NOTES
790-026-00	A	POLY BAG .002 X 9 X 15	1	
0008254	A00	CABLE ASSY 12 PIN 2.5MM TJC3 SINGLE ROW 17.00 INCHES	1	
0010178	A00	SHIELD FIREWIRE ONYX 1640	1	
0010218	A00	CABLE ASSY 7 PIN 2.5MM TJC3 SINGLE ROW 42 INCHES	1	
0010306	A00	CABLE ASSY 12 PIN 1.5MM ZH JST SINGLE ROW 45MM	6	
0010320	A00	CABLE ASSY 10GA 1015 GRN QD X STRIPPED AND TINNED 30.5"	1	
0010144-01	B00	PCB ASSY ONYX 1640 POST REGULATOR	1	SEE PAGE 33
0010338	A00	CABLE ASSY 12 PIN 2.5MM TJC3 SINGLE ROW 1.00 INCHES	1	
0007794-06	A00	SCREW M3 X 6MM PAN MCH SEMS PH STL	4	
0010354-08	A00	SCREW M4 X 8MM PAN MCH SEMS PH BLK	8	
0007822-08	A00	SCREW M3.5 X 8MM 90DEG FLT MCH PH STL BLK	10	
0010475	A00	CABLE 34P IDC 15.75" ONYX 1640 FIREWIRE	1	
700-055-00	A	MCH 4-24X3/8 PHP BLK HILO	39	
750-016-00	A	FOOT 8-32 BLK 3/4D 3/8HT	4	
760-081-01	B00	DIGITAL "TRIM" KNOB 9MM MILLENNIUM GRAY	1	
0011122	A00	RACK EAR LEFT ONYX 1640	1	
0011123	A00	RACK EAR RIGHT ONYX 1640	1	
0011124	A00	BRACKET WIRE RETAINING 1640 ONYX	2	
0010291	A00	CABLE ASSY DUAL 14PIN/14PIN 2.5MM TJC3 SINGLE ROW 26 IN	3	
0010292	A00	CABLE ASSY DUAL 7PIN/10PIN 2.5MM TJC3 SINGLE ROW 27 IN	1	
0010293	A00	CABLE ASSY MULTIPLE 14PIN/9PIN/9PIN 2.5MM TJC3 SINGLE ROW 27 IN	1	
0010295	A00	CABLE ASSY DUAL 14PIN/12PIN 2.0MM PHD JST DUAL ROW 39 IN	1	
0010294	A00	CABLE ASSY MULTIPLE 13PIN/8PIN/9PIN 2.5MM TJC3 SINGLE ROW 43 IN	1	
0011190-00	A00	WASHER FLAT STEEL ID .178 OD .360 THK .048	4	
740-001-00	A	TYRAP 3-1/4L	6	
705-015-00	A	NUT SLOT NCKL	1	
0010827	A00	FLAT CABLE CLAMP - ADHESIVE BACK - 15MM X 13.3MM	5	
0008824-00	A00	SCREW M3 X 6MM BTN MCH 1.5 HEX STL BLK	54	
400-010-00	B	BNC PANEL MOUNT	1	
710-047-00	A00	WASH FLAT W/400-010-00	1	
711-016-00	A00	LUG SOLDER 3/8 W/400-010-00	1	
705-030-00	A00	NUT 3/8 W/400-010-00	1	
706-017-00	A	STDF 4-40X.25 JACKSCREW	4	
710-008-00	A	WASH SPLTLCK NO.4	4	
0010632	A00	WASHER JACK W/0008698	0	
0010633	A00	NUT JACK W/0008698	0	
0011357	A00	CABLE ASSY 10GA 1015 GRN QD X 2 36.5"	1	
790-003-00	A01	BAG POLY ZIPLOCK 3 X 3 2MIL	1	
760-058-01	A	KNOB SLDR 22X8.26 MOLD LN	21	
0009596	B00	CABLE 18G 1015 GRN/YEL 2.5" QDISC/STRIP	1	
710-019-00	A	WASH FIBRE BLK	1	
0012220	A00	GAP PAD ULTRA SOFT 2.25 X 1.125 X 0.25	2	



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## 0007796-00 REV B00 POWER SUPPLY SUBASSEMBLY

PART#	REV	DESCRIPTION	QTY	NOTES
0000659	A00	NUT HEX KEPT M3	1	
 0007588-00	A05	PCB ASSY ONYX 1640 UNIVERSAL SUPPLY	1	SEE NEXT PAGE
 0007759	A00	SILPAD, POWER SUPPLY, VLZII	1	
 0007760	A00	INSULATOR, POWER SUPPLY PCB, VLZII	1	
 0007761	A00	INSULATOR, TRANSISTOR BRACKET, VLZII	1	
0007762	A00	BRACKET, TRANSISTOR MOUNTING, VLZII	1	
0007763	A00	CHASSIS, POWER SUPPLY, VLZII	1	
0007793	A00	STRAIN RELIEF, CABLE DIAMETER .375"	1	
0007794-06	A00	SCREW M3 X 6MM PAN MCH SEMS PH STL	5	
0007794-12	A00	SCREW M3 X 12MM PAN MCH SEMS PH STL	6	
710-022-00	A	WASH FLAT NO.4 FENDER	1	



## 0007588-00 REV A05 UNIVERSAL SUPPLY PCB ASSEMBLY

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
0001149	A00	CAP CER .1UF 100V 10% X7R 1206	19	C1, C6, C7, C8, C15, C21, C25, C31, C32, C33, C34, C35, C36, C40, C42, C44, C48, C52, C57
212-023-00	B1	CER .001UF 10% 50V NPO SM	4	C2, C3, C4, C60
210-027-00	A1	CER 470PF 20% 250V Y2/X1	2	C5, C45
220-012-02	B1	LYT 4.7UF 20% 63V RAD TR	1	C9
220-070-02	A1	LYT 470U 20% 25V 105C T/A	13	C10, C11, C12, C13, C14, C26, C27, C28, C29, C30, C51, C58, C59
220-067-02	A1	LYT 47UF 20% 25V 105C T/A	2	C16, C55
200-024-00	B	PLY/BX .01UF 20% 250V Y2	4	C17, C24, C46, C53
220-060-00	A1	LYT 100UF 20% 400V 25X30	2	C18, C20
200-064-00	A	PLYBOX .0033UF 250V Y2/X1	1	C19
212-001-00	B1	CER .01UF 10% 50V X7R SM	4	C41, C43, C47, C49
200-061-00	A00	PLY BOX .1UF 20% 275V X2	3	C22, C23, C56
210-031-02	A1	CER 100PF 10% 500V NPO TA	1	C37
220-072-02	A1	LYT 47UF 20% 63V 105C T/R	1	C39
220-001-02	A1	LYT 22UF 20% 25V RAD TR	1	C50
⚠ 301-032-00	A	DIODE POWER BRIDGE 8A 600V SIP	1	D1
301-024-00	A	DIODE SCHTKY BARRIER 8A 60V	3	D2, D3, D4
0004125	A00	DIODE SURFACE MOUNT FAST SWITCHING 1N4148W 75V	3	D5, D15, D16
0004137	A00	DIODE, 1.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER, S1G	3	D6, D9, D11
⚠ 0001135	A00	DIODE ZENER MMSZ5243 13V SMT	2	D7, D8
0012055	A00	DIODE POWER 2A 400V ULTRAFAST ES2G	1	D10
0009500	A00	DIODE TVS 5W 100V P6KE100A	2	D12, D18
0004134	A00	DIODE, 500MW SURFACE MOUNT ZENER, MMSZ5226B, 3.3V.	1	D14
301-023-00	A	DIODE STKY 5A 50V SR505	1	D17
⚠ 510-012-00	B	FUSE SB 2.5A 5X20 250 IEC	1	F1
⚠ 400-060-00	A	FUSE CLIP PCMT 5MM DIA	2	FC1, FC2
0005169-12	A00	HDR 12P .098X1 SHRD RTA TJC3	1	J12
601-033-00	A	INDUCTOR 47UH 1.6A	3	L1, L3, L7
0000923	A00	CHOKE PWR 100UH 10% RAD	1	L4
0007731	A00	INDUCTOR COMMON MODE 15MH 1.5A	1	L6
0007589-00	A04	PCB ONYX UNIVERSAL SUPPLY	1	PCB1
140-136-00	A	RES TF SM .1W 5% 360K OHM	2	R1, R5
140-139-00	A	RES TF SM .1W 5% 470K OHM	3	R2, R3, R4
145-581-00	B	RES MF SM .1W 1% 1M0 OHM	3	R7, R8, R9
145-377-00	B	RES MF SM .1W 1% 7K50 OHM	1	R10
145-201-00	B	RES MF SM .1W 1% 121 OHM	2	R11, R45
140-025-00	A	RES TF SM .1W 5% 10 OHM	8	R12, R13, R14, R15, R16, R17, R52, R53
140-080-00	A	RES TF SM .1W 5% 2K0 OHM	2	R18, R41
140-053-00	A	RES TF SM .1W 5% 150 OHM	2	R20, R23

continued...



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Power supply pcb assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
140-049-00	A	RES TF SM .1W 5% 100 OHM	8	R21, R22, R46, R47, R48, R49, R50, R51
140-022-00	A	RES TF SM .1W 5% 7.5 OHM	1	R25
145-394-00	B	RES MF SM .1W 1% 11K3 OHM	13	R19, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R40, R44
123-134-00	A00	RES MO 3W 5% 36K OHM	1	R37
140-057-00	A	RES TF SM .1W 5% 220 OHM	1	R38
140-094-00	A	RES TF SM .1W 5% 7K5 OHM	1	R39
! 150-025-00	A	RES FUSE .25W 5% 10 OHM	1	R42
145-417-00	B	RES MF SM .1W 1% 19K6 OHM	1	R43
! 150-049-00	A	RES FUSE .25W 5% 100 OHM	2	R24, R54
! 0007621	A00	PWM PWR CONT TOP249Y	1	U1
! 321-008-00	B	REG LM317T ADJ	1	U2
304-079-00	B	OPTO COUPLER PWR SPLY	1	U3
320-020-00	A	IC, DUAL OP AMP NJM4565G	1	U4
0007596	A00	DIS 18GA 1015 WHT/BLU 12.5 TERM/QD	1	W1
0007594	A00	DIS 18GA 1015 BLU 12.5 TERM/QD	2	W2, W3
0007592	A00	DIS 18GA 1015 BRN 12.5 TERM/QD	2	W4, W5
0007591	B00	DIS 18GA 1015 GRN/YEL 13.5 TERMX2	1	W6
0007595	A00	DIS 18GA 1015 WHT/BRN 13.5 TERM/QD	1	W7
0008518	A00	LYTIC 47UF 20% 100V 105C T/A	1	C38
0008519	A00	LYTIC 3300UF 20% 10V 105C BULK	1	C54
0008550	A00	GAP PAD ULTRA SOFT 1.2 X 0.7 X 0.2	2	HDW1, HDW3
0008549	A00	GAP PAD ULTRA SOFT 1.3 X 0.4 X 0.2	1	HDW2
0005197	A00	XSTR PNP 2SB1228 POWER	1	Q1
! 0006561	A00	THMS 6A, 10 OHM 20%	1	R36
! 0011605	A00	XFMR ONYX UNIVERSAL SUPPLY (CLASS F)	1	T1
0008517	A00	FIBERGLASS SLEEVING .036 ID	1	Z1
740-028-00	A	HEATSHRINK TUBE 2:1 .375	0.8	
0009501	A00	DIODE POWER 3A 800V ULTRAFast UF5407	1	D13
0008836	A00	INDUCTOR COMMON MODE 80UH 2.2A (X4)	2	L2, L5
145-546-00	B	RES MF SM .1W 1% 432K OHM	1	R6



0007959-00 REV B00 POD PCB ASSEMBLY

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
220-002-02	A1	LYT 47UF 20% 25V RAD TR	42	C1, C11, C25, C26, C28, C30, C31, C33, C36, C40, C42, C44, C45, C48, C52, C54, C55, C57, C60, C69, C72, C74, C81, C84, C94, C96, C105, C107, C114, C116, C123, C125, C133, C135, C144, C147, C157, C159, C169, C171, C180, C182
220-012-02	B1	LYT 4.7UF 20% 63V RAD TR	18	C2, C3, C14, C16, C27, C39, C51, C64, C79, C90, C103, C112, C121, C130, C141, C154, C167, C178
220-011-02	A1	LYT 100UF 20% 25V RAD	20	C4, C6, C10, C15, C19, C22, C61, C66, C82, C85, C148, C164, C165, C176, C177, C187, C190, C191, C192, C193
212-042-00	A1	CER 470PF 5% 50V NPO SM	36	C7, C18, C32, C43, C56, C70, C83, C95, C101, C102, C106, C115, C124, C134, C145, C158, C170, C181, C501, C504, C505, C508, C511, C514, C515, C518, C521, C524, C525, C528, C531, C534, C535, C538, C541, C542
0006335	A00	CAP NP0 470PF 2% 50V SMT 0603	32	C8, C9, C20, C21, C34, C35, C46, C47, C58, C59, C75, C76, C86, C87, C97, C98, C108, C109, C117, C118, C126, C127, C137, C138, C149, C150, C160, C161, C172, C173, C183, C184
212-004-00	C1	CER 220PF 5% 50V NPO SM	2	C65, C73
212-001-00	B1	CER .01UF 10% 50V X7R SM	10	C68, C71, C506, C509, C516, C519, C526, C529, C536, C539
0007875	A00	CAP LYTIC 100UF 63V 20%	7	C132, C136, C142, C146, C151, C156, C166
212-009-00	A	CER 47PF 5% 50V NPO SM	16	C500, C502, C503, C507, C510, C512, C513, C517, C520, C522, C523, C527, C530, C532, C533, C537
212-010-00	B1	CER .1 +80/-20 25V Z5U SM	6	C540, C543, C544, C546, C547, C548

continued...



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Pod PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
0004136	A00	DIO RECTIFIER 1A GLASS PASSIVATED S1B	96	D1, D2, D3, D4, D6, D7, D8, D9, D11, D12, D13, D14, D15, D16, D17, D18, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39, D40, D41, D42, D43, D44, D45, D46, D47, D48, D49, D50, D51, D52, D53, D54, D55, D56, D57, D58, D59, D60, D61, D62, D63, D64, D65, D66, D67, D68, D69, D70, D71, D72, D73, D74, D75, D76, D77, D78, D79, D80, D81, D82, D83, D84, D85, D86, D87, D88, D89, D90, D91, D92, D93, D94, D95, D96, D97, D98, D99, D100
300-011-03	A	DIO, SIGNAL, DUAL, BAV99	4	D5, D10, D19, D20
0009210-01	A00	LONG SHAFT SM RECTANGLE BUTTON 5X7MM CONTROL GRAY	1	HDW1
0008145-12	A00	HEADER 2MM DUAL ROW RTA JST PHD 12 POS	1	J6
0005168-09	A00	HDR 9P .098X1 SHRD TJC3	2	J7, J14
0005169-15	A00	HDR 15P .098X1 SHRD RTA TJC3	1	J10
0005168-14	A00	HDR 14P .098X1 SHRD TJC3	7	J22, J34, J51, J58, J69, J79, J85
0005169-13	A00	HDR 13P .098X1 SHRD RTA TJC3	2	J23, J64
0008145-14	A00	HEADER 2MM DUAL ROW RTA JST PHD 14 POS	1	J31
0005169-09	A00	HDR 9P .098X1 SHRD RTA TJC3	1	J43
0005169-08	A00	HDR 8P .098X1 SHRD RTA TJC3	1	J52
0005169-12	A00	HDR 12P .098X1 SHRD RTA TJC3	1	J89
0005168-10	A00	HDR 10P .098X1 SHRD TJC3	1	J93
0005169-02	A00	HDR 2P .098X1 SHRD RTA TJC3	1	J99
0000094	A00	FERRITE BEAD 120 OHM 0805	34	L1, L2, L4, L5, L7, L8, L10, L11, L13, L14, L16, L17, L19, L20, L22, L23, L25, L26, L28, L29, L31, L32, L34, L35, L37, L38, L42, L43, L47, L50, L57, L58, L61, L62
601-043-00	A01	CHOKE COMMON MODE 15MH	16	L3, L6, L9, L12, L15, L18, L21, L24, L27, L30, L33, L36, L39, L46, L52, L56
601-033-00	A	INDUCTOR 47UH 1.6A	12	L40, L41, L44, L45, L48, L49, L51, L53, L54, L55, L59, L60
311-002-00	A	XSTR PNP MMST4403 SMT	4	Q1, Q2, Q7, Q8
311-004-00	B	XSTR SST112 SM	2	Q3, Q9

continued...





Pod PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
311-005-00	E	XSTR NPN MMBTA06 SMT	32	Q4, Q6, Q10, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31, Q32, Q33, Q34, Q35, Q36, Q37, Q38, Q39, Q40
311-001-00	B	XSTR NPN IMBT4401 SMT	2	Q5, Q11
142-147-00	A10	RES TF 1M 5% 0.1W SMT	2	R1, R17
143-193-00	A01	RES MF SM .1W 1% 100 OHM	2	R2, R18
146-373-00	A	RES MF SM .25W 1% 6K81 OM	34	R3, R8, R19, R24, R33, R38, R46, R51, R59, R64, R74, R79, R89, R94, R102, R109, R117, R122, R130, R136, R144, R149, R163, R171, R180, R185, R193, R198, R206, R211, R219, R224, R581, R582
143-485-00	A1	RES MF SM .1W 1% 100K OHM	48	R4, R14, R15, R20, R30, R31, R34, R43, R44, R47, R56, R57, R60, R69, R70, R75, R86, R87, R90, R99, R100, R103, R114, R115, R118, R127, R128, R131, R140, R141, R145, R153, R154, R164, R176, R177, R181, R189, R190, R194, R202, R203, R207, R215, R216, R220, R230, R231
143-265-00	A1	RES TF 562 1% 0.1W SMT	2	R5, R21
142-108-00	A1	RES TF 27K 5% 0.1W SMT	18	R6, R11, R22, R27, R41, R54, R67, R84, R97, R112, R125, R138, R151, R174, R187, R200, R213, R228
143-361-00	A1	RES MF SM .1W 1% 5K11 OHM	6	R7, R23, R518, R519, R528, R529
142-042-00	A1	RES TF SM .1W 5% 51 OHM	16	R9, R25, R39, R52, R65, R80, R95, R110, R123, R137, R150, R172, R186, R199, R212, R225
142-068-00	A1	RES TF 620 5% 0.1W SMT	2	R10, R26
115-081-00	A	RES MF .25W 1% 6R81 OHM	32	R12, R16, R28, R32, R42, R45, R55, R58, R68, R71, R85, R88, R98, R101, R113, R116, R126, R129, R139, R142, R152, R155, R175, R178, R188, R191, R201, R204, R214, R217, R226, R227
0007785	A00	RES SMT 5% 150 OHM 2512	30	R13, R29, R40, R53, R66, R83, R96, R111, R124, R143, R156, R179, R192, R205, R218, R229, R504, R505, R510, R511, R516, R517, R554, R555, R560, R561, R568, R569, R571, R572

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



Pod PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
143-399-00	A1	RES TF 12.7K 1% 0.1W SMT	28	R35, R36, R48, R49, R61, R62, R76, R77, R91, R92, R106, R107, R119, R120, R132, R133, R146, R147, R167, R168, R182, R183, R195, R196, R208, R209, R221, R222
143-354-00	A1	RES TF 4.32K 1% 0.1W SMT	14	R37, R50, R63, R78, R93, R108, R121, R135, R148, R170, R184, R197, R210, R223
143-318-00	A1	RES MF SM .1W 1% 2K00 OHM	4	R72, R73, R81, R82
146-326-00	A00	RES MF SM .25W 1% 2K2 OHM	2	R104, R105
0007859	A00	RES POT 10K 25% LOG K	1	R134
142-115-00	A1	RES TF 51K 5% 0.1W SMT	20	R157, R161, R162, R173, R236, R237, R238, R239, R501, R503, R507, R509, R513, R515, R557, R559, R563, R565, R575, R576
146-377-00	A00	RES MF SM .25W 1% 7K50 OHM 1206	4	R158, R160, R165, R169
146-210-00	A00	RES MF SM .25W 1% 150 OHM	2	R159, R166
0007783	A00	RES SMT 5% 150 OHM 2010	12	R500, R502, R506, R508, R512, R514, R556, R558, R562, R564, R566, R567
143-389-00	A1	RES MF SM .1W 1% 10K0 OHM	32	R520, R521, R522, R523, R524, R525, R526, R527, R530, R531, R532, R533, R534, R535, R536, R537, R538, R539, R540, R541, R542, R543, R544, R545, R546, R547, R548, R549, R550, R551, R552, R553
146-135-00	A00	RES MF SM .25W 1% 24R9 OHM	11	R232, R233, R234, R235, R570, R573, R574, R577, R578, R579, R580
0000160	A	SWITCH 4PDT PUSH V SNAPIN	1	SW1
320-006-00	A	OPAMP 2068E	5	U1, U2, U3, U4, U5
0001149	A00	CAP CER .1UF 100V 10% X7R 1206	17	C5, C17, C29, C41, C53, C67, C80, C93, C104, C113, C122, C131, C143, C155, C168, C179, C545
212-020-00	A1	CER 750PF 5% 50V NPO SM	2	C188, C189
0008698	A00	JACK 1/4" PCMNT 1MM WASH 24MM HEIGHT	57	J1, J2, J3, J4, J8, J9, J11, J12, J15, J16, J17, J18, J19, J20, J24, J25, J26, J27, J29, J30, J32, J33, J35, J36, J38, J39, J40, J41, J44, J45, J46, J47, J49, J50, J53, J54, J59, J60, J62, J63, J65, J66, J68, J70, J71, J72, J73, J76, J77, J81, J82, J86, J87, J90, J91, J96, J97
400-141-00	A	XLR 3P F VERT A-SERIES	17	J5, J13, J21, J28, J37, J42, J48, J55, J61, J67, J74, J78, J83, J84, J88, J92, J98

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Pod PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
0008768	A00	CONN RCA QUAD VERT PCMNT 24MM HIGH	1	J56
400-142-00	A	XLR 3P M VERT A-SERIES	2	J75, J80
0005169-07	A00	HDR 7P .098X1 SHRD RTA TJC3	1	J94
0005168-07	A00	HDR 7P .098X1 SHRD TJC3	1	J95
400-173-00	A	TERM .25 QKDS PCMT STABLE	2	J500, J501
0012168	A00	CAP LYT 47UF 63V 20% 8X11.5MM LOWLEAKAGE RAD T/A	34	C12, C13, C23, C24, C37, C38, C49, C50, C62, C63, C77, C78, C88, C89, C91, C92, C99, C100, C110, C111, C119, C120, C128, C129, C139, C140, C152, C153, C162, C163, C174, C175, C185, C186
212-003-00	B1	CER 100PF 5% 50V NPO SM	2	C194, C195
0007958-01	B00	PCB, ONYX 1640 POD	1	PCB1



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## 0007961-00 REV B00 EQ PCB ASSEMBLY

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
0007789	A00	CAP LYTIC SMT 1500UF 6.3V	32	C1, C2, C3, C4, C9, C10, C11, C12, C17, C18, C19, C20, C21, C22, C29, C30, C31, C32, C37, C38, C39, C40, C45, C46, C47, C48, C49, C50, C55, C56, C57, C58
220-011-02	A1	LYT 100UF 20% 25V RAD	48	C5, C6, C7, C8, C13, C14, C15, C16, C23, C24, C25, C26, C27, C28, C33, C34, C35, C36, C41, C42, C43, C44, C51, C52, C53, C54, C59, C60, C61, C62, C63, C64, C82, C83, C94, C95, C108, C109, C110, C121, C122, C136, C137, C150, C151, C162, C163, C164
220-072-02	A1	LYT 47UF 20% 63V 105C T/R	2	C65, C67
0007880	A00	CAP LYTIC 100UF 20% 16V KS 5MM	4	C66, C72, C73, C74
220-002-02	A1	LYT 47UF 20% 25V RAD TR	37	C68, C69, C70, C71, C170, C171, C172, C173, C174, C175, C177, C226, C228, C231, C232, C233, C240, C241, C256, C257, C265, C266, C281, C282, C290, C291, C292, C293, C294, C295, C296, C297, C298, C299, C300, C301, C302
200-022-02	A	PLY .47UF 5% 50V TR	48	C75, C76, C77, C78, C79, C80, C81, C88, C89, C90, C91, C92, C93, C100, C101, C102, C103, C104, C105, C106, C107, C115, C116, C117, C118, C119, C120, C129, C130, C131, C132, C133, C134, C135, C142, C143, C144, C145, C146, C147, C148, C149, C156, C157, C158, C159, C160, C161
200-014-02	B	PLY .0033UF 10% 100V TR	32	C84, C85, C86, C87, C96, C97, C98, C99, C111, C112, C113, C114, C123, C124, C125, C126, C127, C128, C138, C139, C140, C141, C152, C153, C154, C155, C165, C166, C167, C168, C169, C176
200-001-02	D	PLY .012UF 10% 100V TR	16	C178, C179, C184, C185, C186, C192, C193, C199, C200, C205, C206, C207, C213, C214, C219, C220
200-015-02	B	PLY .0047UF 10% 100V PEI	16	C180, C182, C187, C189, C191, C195, C197, C201, C203, C208, C210, C212, C216, C218, C222, C224

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EQ PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
220-027-02	B1	LYT 10UF 20% 50V RAD TR	16	C181, C183, C188, C190, C194, C196, C198, C202, C204, C209, C211, C215, C217, C221, C223, C225
220-012-02	B1	LYT 4.7UF 20% 63V RAD TR	1	C227
200-004-02	C	PLY .047UF 10% 100V TR	17	C229, C234, C235, C242, C243, C244, C250, C251, C258, C259, C267, C268, C269, C274, C275, C283, C284
200-002-02	A	PLY .018UF 10% 100V TR	16	C236, C237, C245, C246, C247, C252, C253, C260, C261, C270, C271, C276, C277, C278, C285, C286
200-019-02	A	PLY/BX .1UF 10% 63V TR	16	C238, C239, C248, C249, C254, C255, C262, C263, C264, C272, C273, C279, C280, C287, C288, C289
212-010-00	B1	CER .1 +80/-20 25V Z5U SM	7	C303, C304, C305, C306, C391, C393, C683
212-004-00	C1	CER 220PF 5% 50V NPO SM	28	C230, C307, C308, C399, C409, C426, C427, C428, C445, C446, C460, C461, C474, C475, C490, C491, C492, C509, C510, C519, C525, C536, C541, C602, C605, C607, C680, C681

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EQ PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
212-001-00	B1	CER .01UF 10% 50V X7R SM	188	C309, C310, C312, C313, C315, C316, C317, C318, C319, C320, C324, C325, C328, C329, C330, C331, C334, C335, C336, C340, C341, C342, C343, C346, C347, C350, C351, C352, C353, C356, C357, C360, C361, C362, C363, C364, C365, C369, C370, C371, C375, C376, C377, C378, C381, C382, C385, C386, C388, C390, C392, C394, C395, C396, C398, C400, C402, C406, C407, C410, C411, C414, C415, C419, C422, C425, C429, C430, C431, C432, C433, C434, C439, C442, C447, C448, C449, C450, C454, C457, C462, C463, C464, C465, C468, C471, C476, C477, C478, C479, C480, C483, C486, C489, C493, C494, C495, C496, C497, C503, C506, C511, C512, C513, C514, C516, C520, C521, C522, C524, C529, C530, C531, C532, C533, C535, C539, C540, C547, C548, C549, C550, C551, C552, C558, C559, C560, C561, C566, C567, C568, C569, C574, C575, C576, C577, C578, C585, C586, C587, C588, C589, C594, C595, C596, C597, C600, C601, C603, C604, C606, C609, C611, C612, C615, C616, C623, C624, C625, C626, C627, C628, C633, C634, C635, C636, C641, C642, C643, C644, C649, C650, C651, C652, C653, C660, C661, C662, C663, C664, C669, C670, C671, C672, C675, C676, C679, C684
0003100	A00	CER 10PF 5% 100V NPO SM 0603	32	C311, C314, C321, C322, C323, C326, C327, C332, C333, C337, C338, C339, C344, C345, C348, C349, C354, C355, C358, C359, C366, C367, C368, C372, C373, C374, C379, C380, C383, C384, C387, C389

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EQ PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
212-009-00	A	CER 47PF 5% 50V NPO SM	68	C397, C403, C404, C416, C420, C421, C423, C424, C437, C438, C440, C441, C443, C444, C455, C456, C458, C459, C469, C470, C472, C473, C484, C485, C487, C488, C501, C502, C504, C505, C507, C508, C517, C518, C523, C534, C538, C544, C545, C546, C556, C557, C564, C565, C572, C573, C582, C583, C584, C592, C593, C599, C608, C617, C618, C619, C629, C630, C637, C638, C645, C646, C654, C655, C656, C665, C666, C673
212-042-00	A1	CER 470PF 5% 50V NPO SM	16	C401, C417, C418, C435, C436, C451, C452, C453, C466, C467, C481, C482, C498, C499, C500, C515
212-003-00	B1	CER 100PF 5% 50V NPO SM	4	C405, C408, C610, C613
212-002-00	A1	CER 22PF 5% 100V COG SM	34	C412, C413, C537, C542, C543, C553, C554, C555, C562, C563, C570, C571, C579, C580, C581, C590, C591, C598, C614, C620, C621, C622, C631, C632, C639, C640, C647, C648, C657, C658, C659, C667, C668, C674
212-035-00	A1	CER 560PF 5% 50V NPO SM	3	C526, C527, C528
0004136	A00	DIO RECTIFIER 1A GLASS PASSIVATED S1B	8	D17, D18, D19, D20, D21, D22, D44, D45
 304-027-02	C00	LED RED W/.425 SPACER TR	1	D23
0004125	A00	DIODE SURFACE MOUNT FAST SWITCHING 1N4148W 75V	17	D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39, D42
 0004126	A00	DIO ZENER 500MW MMSZ5230B	1	D40
300-011-03	A	DIO, SIGNAL, DUAL, BAV99	1	D41
0005168-09	A00	HDR 9P .098X1 SHRD TJC3	2	J1, J2
0005168-14	A00	HDR 14P .098X1 SHRD TJC3	7	J3, J4, J5, J6, J7, J8, J9
0005168-10	A00	HDR 10P .098X1 SHRD TJC3	1	J10
0005168-06	A00	HDR 6P .098X1 SHRD TJC3	1	J12
0008115-30	A00	HEADER 2MM DUAL ROW VERT JST PHD 30 POS	1	J13
0005168-08	A00	HDR 8P .098X1 SHRD TJC3	8	J14, J15, J16, J17, J18, J19, J20, J21
601-004-00	B	FERRITE CHIP 150 OHM	2	L1, L2
0000094	A00	FERRITE BEAD 120 OHM 0805	32	L3, L4, L6, L7, L8, L9, L12, L13, L14, L15, L19, L20, L21, L22, L23, L24, L27, L28, L29, L30, L33, L34, L35, L36, L39, L40, L41, L42, L43, L47, L48, L49

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EQ PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
601-014-00	A	INDUCTOR 4.7UH 1206 SMT	16	L5, L10, L11, L16, L17, L18, L25, L26, L31, L32, L37, L38, L44, L45, L46, L50
480-001-00	A	MICROPHONE	1	MIC1
310-003-02	B2	XSTR PNP 2SA1316 AMMO PK	32	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31, Q32
311-002-00	A	XSTR PNP MMST4403 SMT	49	Q33, Q34, Q35, Q36, Q37, Q38, Q39, Q40, Q41, Q42, Q43, Q44, Q45, Q46, Q47, Q48, Q49, Q50, Q51, Q52, Q53, Q54, Q55, Q56, Q57, Q58, Q59, Q60, Q61, Q62, Q63, Q64, Q65, Q66, Q67, Q68, Q69, Q70, Q71, Q72, Q73, Q74, Q75, Q76, Q77, Q78, Q79, Q80, Q81
0007853	A00	RES POT DUAL 10K 25% LOG K	4	R1, R116, R117, R118
130-074-03	A00	POT RTY 10KZY 9MM MONO REVISED TAPER	16	R2, R3, R6, R7, R8, R12, R13, R16, R17, R20, R21, R24, R25, R26, R30, R31
0007855	A00	RES POT 20K 50% LINEAR B W/DETENT	32	R4, R5, R9, R10, R11, R14, R15, R18, R19, R22, R23, R27, R28, R29, R32, R33, R86, R87, R91, R92, R93, R96, R97, R100, R101, R104, R105, R109, R110, R111, R114, R115
0007857	A00	RES POT DUAL 50K 25% REV LOG E	32	R34, R35, R38, R39, R40, R41, R42, R46, R47, R48, R49, R50, R53, R54, R55, R56, R59, R60, R61, R62, R65, R66, R67, R68, R69, R73, R74, R75, R76, R77, R80, R81
0007856	A00	RES POT 10K 50% LINEAR B W/DETENT	32	R36, R37, R43, R44, R45, R51, R52, R57, R58, R63, R64, R70, R71, R72, R78, R79, R84, R85, R88, R89, R90, R94, R95, R98, R99, R102, R103, R106, R107, R108, R112, R113
0007859	A00	RES POT 10K 25% LOG K	1	R82
143-318-00	A1	RES MF SM .1W 1% 2K00 OHM	28	R119, R124, R351, R361, R365, R379, R413, R414, R446, R447, R448, R479, R480, R508, R509, R541, R542, R543, R574, R575, R598, R631, R646, R791, R795, R802, R883, R884
143-285-00	A1	RES MF SM .1W 1% 909 OHM	7	R120, R122, R632, R647, R790, R794, R800

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EQ PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
142-104-00	A1	RES TF 20K 5% 0.1W SMT	25	R121, R123, R127, R144, R147, R177, R180, R183, R211, R214, R241, R244, R271, R274, R277, R307, R310, R337, R391, R626, R648, R786, R787, R788, R801
143-331-00	A1	RES MF SM .1W 1% 2K49 OHM	112	R125, R126, R128, R129, R133, R135, R137, R139, R140, R141, R142, R143, R145, R146, R148, R149, R157, R159, R161, R162, R164, R166, R167, R169, R171, R172, R173, R174, R175, R176, R178, R179, R181, R182, R184, R185, R195, R197, R199, R201, R203, R205, R207, R208, R209, R210, R212, R213, R215, R216, R224, R226, R229, R231, R233, R235, R237, R238, R239, R240, R242, R243, R245, R246, R253, R255, R257, R259, R261, R263, R265, R266, R267, R268, R269, R270, R272, R273, R275, R276, R286, R288, R290, R291, R293, R295, R296, R298, R300, R301, R302, R303, R304, R305, R306, R308, R309, R311, R312, R321, R323, R326, R328, R331, R333, R335, R336, R338, R339, R343, R345, R347
142-065-00	A1	RES TF SM .1W 5% 470 OHM	32	R130, R131, R150, R151, R152, R153, R154, R186, R187, R188, R189, R190, R217, R218, R219, R220, R247, R248, R249, R250, R278, R279, R280, R281, R282, R283, R313, R314, R315, R316, R340, R341

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



EQ PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
143-361-00	A1	RES MF SM .1W 1% 5K11 OHM	122	R132, R138, R155, R156, R168, R170, R191, R192, R193, R202, R204, R206, R221, R222, R234, R236, R251, R252, R262, R264, R284, R285, R297, R299, R317, R318, R319, R330, R332, R334, R342, R348, R353, R354, R355, R356, R371, R372, R373, R375, R377, R378, R381, R382, R389, R393, R625, R627, R635, R637, R639, R640, R644, R645, R662, R663, R664, R665, R666, R686, R687, R688, R689, R690, R705, R706, R707, R708, R724, R725, R726, R727, R745, R746, R747, R748, R749, R750, R768, R769, R770, R771, R781, R782, R789, R796, R803, R804, R806, R807, R808, R809, R815, R816, R817, R818, R820, R822, R825, R826, R828, R830, R835, R836, R837, R839, R843, R844, R845, R847, R851, R852, R853, R854, R856, R858, R862, R863, R865, R867, R871, R872
143-457-00	A1	RES MF SM .1W 1% 51K1 OHM	32	R134, R136, R158, R160, R163, R165, R194, R196, R198, R200, R223, R225, R227, R228, R230, R232, R254, R256, R258, R260, R287, R289, R292, R294, R320, R322, R324, R325, R327, R329, R344, R346
142-115-00	A1	RES TF 51K 5% 0.1W SMT	23	R349, R350, R357, R390, R422, R423, R457, R458, R487, R488, R489, R516, R517, R551, R552, R584, R585, R602, R603, R634, R792, R798, R799
143-326-00	A1	RES MF SM .1W 1% 2K21 OHM	1	R352
143-435-00	A1	RES MF SM .1W 1% 30K1 OHM	11	R358, R359, R362, R363, R607, R612, R616, R618, R630, R875, R877
142-140-00	A10	RES TF 510K 5% 0.1W SMT	34	R360, R364, R633, R636, R654, R655, R656, R657, R658, R679, R680, R681, R682, R683, R699, R700, R701, R702, R717, R718, R719, R720, R721, R738, R739, R740, R741, R761, R762, R763, R764, R765, R778, R779

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EQ PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
143-389-00	A1	RES MF SM .1W 1% 10K0 OHM	32	R366, R367, R396, R397, R398, R399, R430, R431, R432, R433, R463, R464, R465, R466, R467, R468, R494, R495, R496, R497, R523, R524, R525, R526, R558, R559, R560, R561, R562, R590, R591, R592
148-002-00	A00	RES TF SM .1W 0.1% 5K11 0603	32	R368, R376, R400, R403, R406, R410, R411, R412, R436, R439, R444, R445, R469, R472, R477, R478, R498, R501, R506, R507, R527, R530, R533, R538, R539, R540, R564, R567, R572, R573, R593, R597
148-001-00	A	RES TF SM .1W 0.1% 10K0 0805	32	R369, R374, R401, R404, R407, R408, R409, R434, R437, R440, R442, R443, R470, R473, R475, R476, R499, R502, R504, R505, R528, R531, R534, R535, R536, R537, R565, R568, R570, R571, R594, R596
143-051-00	A01	RES TF 3.32 1% 0.1W SMT	16	R370, R402, R405, R435, R438, R441, R471, R474, R500, R503, R529, R532, R563, R566, R569, R595
143-300-00	A1	RES TF 1.30K 1% 0.1W SMT	16	R380, R415, R416, R449, R450, R451, R481, R482, R510, R511, R544, R545, R576, R577, R578, R599
143-422-00	A1	RES TF 22.1K 1% 0.1W SMT	16	R383, R417, R418, R419, R452, R453, R483, R484, R512, R513, R546, R547, R548, R579, R580, R600
143-342-00	A1	RES TF 3.24K 1% 0.1W SMT	16	R384, R420, R421, R454, R455, R456, R485, R486, R514, R515, R549, R550, R581, R582, R583, R601
143-505-00	A1	RES TF 162K 1% 0.1W SMT	2	R385, R388
142-066-00	A1	RES TF 510 5% 0.1W SMT	5	R386, R387, R608, R613, R614
142-097-00	A1	RES TF SM .1W 5% 10K OHM	4	R392, R611, R620, R622
143-348-00	A1	RES TF 3.74K 1% 0.1W SMT	32	R394, R395, R424, R425, R426, R427, R428, R429, R459, R460, R461, R462, R490, R491, R492, R493, R518, R519, R520, R521, R522, R553, R554, R555, R556, R557, R586, R587, R588, R589, R604, R605
143-531-00	A1	RES TF 301K 1% 0.1W SMT	1	R606
142-119-00	A1	RES TF 75K 5% 0.1W SMT	3	R610, R623, R876
142-094-00	A1	RES TF 7.5K 5% 0.1W SMT	1	R615
142-069-00	A1	RES TF 680 5% 0.1W SMT	1	R617

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EQ PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
0007784	A00	RES SMT 5% 2K0 OHM 2010	2	R619, R797
142-095-00	A1	RES TF 8.2K 5% 0.1W SMT	1	R621
142-037-00	A1	RES TF 33 5% 0.1W SMT	1	R624
143-333-00	A1	RES TF 2.61K 1% 0.1W SMT	64	R628, R629, R642, R649, R650, R651, R652, R653, R667, R668, R669, R670, R671, R672, R673, R674, R675, R676, R677, R678, R691, R692, R693, R694, R695, R696, R697, R698, R709, R710, R711, R712, R713, R714, R715, R716, R728, R729, R730, R731, R732, R733, R734, R735, R736, R737, R751, R752, R753, R754, R755, R756, R757, R758, R759, R760, R772, R773, R774, R775, R776, R777, R783, R784
143-522-00	A1	RES TF 243K 1% 0.1W SMT	16	R638, R659, R660, R661, R684, R685, R703, R704, R722, R723, R742, R743, R744, R766, R767, R780
142-073-00	A1	RES TF SM .1W 5% 1K0 OHM	1	R785
142-061-00	A1	RES TF SM .1W 5% 330 OHM	1	R793
143-352-00	A1	RES MF SM .1W 1% 4K12 OHM	32	R805, R810, R819, R821, R823, R824, R827, R829, R831, R832, R833, R834, R838, R840, R841, R842, R846, R848, R849, R850, R855, R857, R859, R860, R861, R864, R866, R868, R869, R870, R873, R874
0000162	A	SWITCH 2PDT PUSH V SNAPIN	62	SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW9, SW10, SW11, SW12, SW13, SW14, SW15, SW16, SW17, SW18, SW19, SW20, SW21, SW22, SW23, SW24, SW25, SW26, SW27, SW28, SW29, SW30, SW31, SW32, SW33, SW34, SW35, SW36, SW37, SW38, SW39, SW40, SW41, SW42, SW43, SW44, SW45, SW46, SW47, SW48, SW49, SW50, SW51, SW52, SW53, SW54, SW55, SW56, SW57, SW58, SW59, SW60, SW61, SW62
500-020-00	A	SWITCH PUSH MOM VERT PC MTG	1	SW63

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EQ PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
0007774	A00	LOW NOISE DUAL OP AMP NJM2114L SIP	66	U1, U2, U3, U4, U5, U6, U7, U8, U9, U10, U11, U12, U13, U14, U15, U16, U17, U18, U19, U20, U21, U22, U23, U24, U25, U26, U27, U28, U29, U30, U31, U32, U33, U40, U41, U42, U43, U44, U45, U46, U47, U48, U49, U50, U51, U52, U53, U54, U57, U58, U61, U62, U63, U64, U65, U66, U67, U68, U69, U70, U71, U72, U73, U74, U75, U76
320-006-00	A	OPAMP 2068E	9	U34, U35, U38, U39, U55, U56, U60, U77, U78
325-018-03	C	DG413 QUAD ANALOG SW SM	3	U36, U37, U79
320-015-00	A	VCA QUAD SSM2164 SMT	1	U59
0007960-01	B00	PCB, EQ, ONYX 1640	1	Z100
212-020-00	A1	CER 750PF 5% 50V NPO SM	2	C677, C682
220-008-02	A1	LYT 1UF 20% 50V RAD TR	1	C678
 304-029-02	C00	LED GRN W/.425 SPACER TR	16	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16
300-003-00	A	DIO SW DL4148 100V SM	1	D43
0005168-07	A00	HDR 7P .098X1 SHRD TJC3	1	J11
311-001-00	B	XSTR NPN IMBT4401 SMT	1	Q82
130-021-00	A	POT TRIM 10KB HORIZ	1	R83
143-418-00	A1	RES MF SM .1W 1% 20K0 OHM	1	R609
142-123-00	A1	RES TF SM .1W 5% 100K OHM	1	R878
143-456-00	A1	RES TF 49.9K 1% 0.1W SMT	1	R879
0008320-01	B00	STDF SWAGE M3 X 13.8MM 4.7 DIA	20	SO1, SO2, SO3, SO4, SO5, SO6, SO7, SO8, SO9, SO10, SO11, SO12, SO13, SO14, SO15, SO16, SO17, SO18, SO19, SO20
0000160	A	SWITCH 4PDT PUSH V SNAPIN	1	SW64
400-166-00	A	JACK 1/4 HRZ PCMNT STEREO	1	J22
0005168-03	A00	HDR 3P .098X1 SHRD TJC3	1	J23
0008793-03	A00	SM RECTANGLE BUTTON 5X7MM CONTROL GREY	28	B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13, B14, B15, B16, B17, B18, B19, B20, B21, B22, B23, B24, B25, B26, B27, B28
0008793-06	A00	SM RECTANGLE BUTTON 5X7MM CONTROL GREY "48V"	16	B29, B30, B31, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B42, B43, B44
0008793-23	A00	SM RECTANGLE BUTTON 5X7MM CONTROL GREY "GUITAR" (SYMBOL)	2	B45, B46
0008793-09	A00	SM RECTANGLE BUTTON 5X7MM CONTROL GREY "LOW CUT" (SYMBOL)	16	B47, B48, B49, B50, B51, B52, B53, B54, B55, B56, B57, B58, B59, B60, B61, B62

continued...



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EQ PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
0008793-21	A00	SM RECTANGLE BUTTON 5X7MM CONTROL GREY "FIREWIRE" (SYMBOL)	1	B63
0008794-02	B00	MED RECTANGLE BUTTON 11.5 X 8.5 MM CONTROL GREY	1	B64



0007963-00 REV C00 FADER PCB ASSEMBLY

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
0008209-00	A00	BUS BAR, 1604 VLZII	1	BB1
220-002-02	A1	LYT 47UF 20% 25V RAD TR	96	C1, C2, C3, C6, C7, C9, C13, C14, C17, C18, C38, C39, C42, C43, C65, C66, C69, C70, C78, C81, C83, C84, C87, C88, C111, C112, C113, C116, C129, C130, C139, C141, C146, C148, C151, C152, C153, C155, C160, C162, C167, C169, C174, C176, C189, C198, C213, C214, C229, C230, C245, C246, C261, C262, C263, C265, C266, C268, C270, C272, C275, C277, C279, C282, C284, C286, C295, C296, C307, C308, C316, C317, C319, C320, C335, C336, C353, C354, C369, C370, C386, C387, C401, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C412, C413, C414
212-004-00	C1	CER 220PF 5% 50V NPO SM	36	C4, C8, C15, C29, C40, C56, C67, C74, C85, C89, C114, C131, C140, C147, C154, C156, C161, C168, C175, C199, C215, C231, C247, C264, C267, C271, C278, C285, C297, C309, C318, C321, C337, C355, C371, C378
212-001-00	B1	CER .01UF 10% 50V X7R SM	202	C5, C10, C12, C16, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C30, C31, C32, C33, C34, C35, C36, C37, C41, C44, C45, C46, C47, C48, C49, C51, C52, C57, C58, C60, C63, C68, C71, C86, C91, C92, C93, C94, C98, C99, C102, C103, C104, C105, C106, C107, C108, C109, C110, C117, C118, C119, C120, C122, C123, C124, C125, C126, C133, C134, C135, C136, C138, C142, C143, C144, C145, C149, C150, C158, C159, C163, C164, C166, C170, C171, C172, C173, C180, C181, C192, C193, C196, C197, C201, C202, C203, C204, C206, C207, C208, C209, C210, C211, C212, C217, C218, C219, C220, C222, C223, C224, C225, C226, C233, C234, C235, C236, C238, C239, C240, C241, C242, C243, C244, C249, C250, C251, C252, C255, C256, C257, C258, C273, C274, C276, C280, C283, C287, C288, C289, C290, C291, C292, C293, C294, C299, C300, C301, C302, C303, C304, C306, C310, C311, C312, C313, C323, C324, C325, C326, C328, C329, C330, C331, C332, C333, C334, C339, C340, C341, C342, C343, C344, C346, C347, C348, C349, C350, C357, C358, C359, C360, C362, C363, C364, C365, C366, C367, C368, C373, C374, C375, C376, C380, C381, C382, C383, C389, C390, C391, C392, C395, C396, C397, C398, C399, C400
220-011-02	A1	LYT 100UF 20% 25V RAD	16	C11, C90, C115, C132, C157, C200, C216, C232, C248, C269, C298, C322, C338, C356, C372, C388
220-027-02	B1	LYT 10UF 20% 50V RAD TR	16	C53, C95, C121, C137, C165, C205, C221, C237, C253, C281, C305, C327, C345, C361, C377, C393
212-010-00	B1	CER .1 +80/-20 25V Z5U SM	4	C493, C495, C497, C499
0007880	A00	CAP LYTIC 100UF 20% 16V KS 5MM	4	C494, C496, C498, C500
0004125	A00	DIODE SURFACE MOUNT FAST SWITCHING 1N4148W 75V	22	D1, D9, D13, D14, D17, D21, D25, D29, D31, D40, D49, D58, D68, D77, D82, D94, D103, D113, D122, D131, D140, D149


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Fader PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
 304-027-02	C00	LED RED W/.425 SPACER TR	32	D3, D7, D18, D26, D33, D37, D42, D46, D51, D55, D60, D65, D70, D74, D79, D85, D87, D91, D96, D100, D106, D110, D115, D119, D124, D128, D133, D137, D142, D146, D151, D155
300-011-03	A	DIO, SIGNAL, DUAL, BAV99	32	D10, D11, D27, D30, D38, D39, D47, D48, D56, D57, D66, D67, D75, D76, D86, D92, D93, D101, D102, D104, D111, D112, D120, D121, D129, D130, D138, D139, D147, D148, D156, D157
0004136	A00	DIO RECTIFIER 1A GLASS PASSIVATED S1B	4	D158, D159, D160, D161
0008115-30	A00	HEADER 2MM DUAL ROW VERT JST PHD 30 POS	1	J1
0005168-08	A00	HDR 8P .098X1 SHRD TJC3	9	J2, J5, J6, J7, J8, J9, J10, J11, J12
0005168-05	A00	HDR 5P .098X1 SHRD TJC3	1	J13
0008115-14	A00	HEADER 2MM DUAL ROW VERT JST PHD 14 POS	1	J56
0008115-12	A00	HEADER 2MM DUAL ROW VERT JST PHD 12 POS	1	J76
311-007-00	A	XSTR SW PNP 2SA1415	16	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16
142-104-00	A1	RES TF 20K 5% 0.1W SMT	52	R3, R9, R18, R29, R44, R56, R68, R72, R97, R174, R176, R197, R213, R229, R245, R261, R275, R277, R281, R341, R343, R372, R386, R401, R416, R423, R427, R442, R472, R488, R490, R565, R567, R571, R594, R678, R680, R742, R744, R798, R800, R854, R856, R910, R912, R966, R968, R1022, R1024, R1078, R1080, R1134
143-318-00	A1	RES MF SM .1W 1% 2K00 OHM	36	R4, R19, R30, R33, R45, R57, R73, R84, R98, R177, R199, R215, R231, R247, R263, R279, R282, R344, R374, R388, R403, R418, R428, R444, R474, R491, R568, R572, R681, R745, R801, R857, R913, R969, R1025, R1081
143-285-00	A1	RES MF SM .1W 1% 909 OHM	24	R5, R20, R31, R35, R46, R58, R80, R85, R99, R178, R283, R345, R429, R492, R569, R573, R682, R746, R802, R858, R914, R970, R1026, R1082

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Fader PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
143-373-00	A1	RES MF SM .1W 1% 6K81 OHM	398	R6, R21, R25, R26, R32, R47, R51, R52, R59, R60, R62, R66, R74, R75, R78, R79, R81, R86, R100, R103, R105, R107, R109, R111, R112, R113, R114, R124, R125, R131, R135, R136, R139, R140, R143, R144, R147, R148, R151, R152, R155, R156, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166, R167, R168, R169, R170, R171, R180, R181, R182, R183, R184, R187, R188, R191, R203, R226, R227, R235, R236, R239, R250, R253, R254, R266, R267, R270, R271, R285, R286, R287, R288, R289, R292, R293, R296, R297, R311, R312, R315, R316, R319, R320, R325, R326, R327, R328, R333, R334, R337, R338, R347, R348, R349, R350, R351, R354, R355, R358, R359, R368, R377, R380, R381, R384, R390, R393, R394, R395, R396, R399, R405, R408, R409, R410, R411, R414, R420, R424, R425, R431, R432, R433, R434, R435, R438, R439, R446, R447, R461, R462, R465, R466, R469, R470, R476, R477, R480, R481, R484, R485, R494, R495, R496, R497, R498, R501, R502, R505, R506, R520, R521, R524, R525, R528, R529, R532, R533, R541, R542, R543, R544, R545, R546, R547, R548, R549, R550, R551, R552, R553, R554, R555, R556, R557, R558, R561, R562, R575, R576, R577, R578, R579, R582, R583, R586, R587, R603, R604, R607, R608, R611, R612, R615, R616, R619, R620, R623, R624, R627, R628, R629, R630, R631, R635, R636, R639, R640, R654, R655, R658, R659, R662, R663, R666, R667, R670, R671, R674, R675, R684, R685, R686, R687, R688, R691, R692, R695, R696, R710, R711, R714, R715, R721, R722, R725, R726, R734, R735, R738, R739, R748, R749, R750, R751, R752, R755, R756, R759, R760, R774, R775, R778, R779, R782, R783, R786, R787, R790, R791, R794, R795, R804, R805, R806, R807, R808, R811, R812, R815, R816, R830, R831, R834, R835, R838, R839, R842, R843, R846, R847, R850, R851, R860, R861, R862, R863, R864, R867, R868, R871, R872, R886, R887, R890, R891, R894, R895, R898, R899, R902, R903, R906, R907, R916, R917, R918, R919, R920, R923, R924, R927, R928, R942, R943, R946, R947, R950, R951, R954, R955, R958, R959, R962, R963, R972, R973, R974, R975, R976, R979, R980, R983, R984, R998, R999, R1002, R1003, R1006, R1007, R1010, R1011, R1014, R1015, R1018, R1019, R1028, R1029, R1030, R1031, R1032, R1035, R1036, R1039, R1040, R1054, R1055, R1058, R1059, R1062, R1063, R1066, R1067, R1070, R1071, R1074, R1075, R1084, R1085, R1086, R1087, R1088, R1091, R1092, R1095, R1096, R1110, R1111, R1114, R1115, R1118, R1119, R1122, R1123, R1126, R1127, R1130, R1131
130-031-00	A	POT SLD 10KD 60MM MONO	20	R7, R175, R276, R342, R371, R385, R400, R415, R426, R489, R566, R570, R679, R743, R799, R855, R911, R967, R1023, R1079

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Fader PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
0007853	A00	RES POT DUAL 10K 25% LOG K	102	R8, R24, R34, R50, R61, R88, R134, R138, R142, R146, R150, R154, R225, R234, R238, R252, R265, R269, R310, R314, R318, R324, R332, R336, R379, R383, R392, R398, R407, R413, R460, R464, R468, R475, R479, R483, R519, R523, R527, R531, R540, R560, R602, R606, R610, R614, R618, R622, R653, R657, R661, R665, R669, R673, R709, R713, R720, R724, R733, R737, R773, R777, R781, R785, R789, R793, R829, R833, R837, R841, R845, R849, R885, R889, R893, R897, R901, R905, R941, R945, R949, R953, R957, R961, R997, R1001, R1005, R1009, R1013, R1017, R1053, R1057, R1061, R1065, R1069, R1073, R1109, R1113, R1117, R1121, R1125, R1129
142-073-00	A1	RES TF SM .1W 5% 1K0 OHM	6	R1000, R1004, R1008, R1012, R1016, R1020
143-289-00	A1	RES MF SM .1W 1% 1K00 OHM	278	R76, R77, R82, R83, R87, R89, R91, R92, R93, R94, R95, R96, R101, R102, R104, R106, R108, R110, R115, R117, R118, R119, R120, R126, R137, R141, R145, R149, R153, R172, R185, R186, R189, R190, R201, R204, R205, R206, R207, R211, R212, R217, R228, R233, R237, R241, R242, R243, R244, R249, R251, R255, R257, R258, R259, R260, R268, R273, R290, R291, R294, R295, R298, R299, R300, R301, R302, R303, R313, R317, R323, R329, R330, R331, R335, R339, R352, R353, R356, R357, R360, R361, R362, R363, R364, R365, R382, R391, R397, R406, R412, R421, R436, R437, R440, R445, R448, R449, R450, R451, R452, R453, R463, R467, R471, R478, R482, R486, R499, R500, R503, R504, R507, R508, R509, R510, R511, R512, R522, R526, R530, R539, R559, R563, R580, R581, R584, R585, R588, R589, R590, R591, R592, R595, R605, R609, R613, R617, R621, R625, R633, R634, R637, R638, R641, R642, R643, R644, R645, R646, R656, R660, R664, R668, R672, R676, R689, R690, R693, R694, R697, R698, R699, R700, R701, R702, R712, R719, R723, R727, R736, R740, R753, R754, R757, R758, R761, R762, R763, R764, R765, R766, R776, R780, R784, R788, R792, R796, R809, R810, R813, R814, R817, R818, R819, R820, R821, R822, R832, R836, R840, R844, R848, R852, R865, R866, R869, R870, R873, R874, R875, R876, R877, R878, R888, R892, R896, R900, R904, R908, R921, R922, R925, R926, R929, R930, R931, R932, R933, R934, R944, R948, R952, R956, R960, R964, R977, R978, R981, R982, R985, R986, R987, R988, R989, R990, R1033, R1034, R1037, R1038, R1041, R1042, R1043, R1044, R1045, R1046, R1056, R1060, R1064, R1068, R1072, R1076, R1089, R1090, R1093, R1094, R1097, R1098, R1099, R1100, R1101, R1102, R1112, R1116, R1120, R1124, R1128, R1132
140-025-00	A	RES TF SM .1W 5% 10 OHM	28	R38, R39, R40, R41, R42, R43, R48, R49, R53, R55, R63, R64, R65, R67, R69, R70, R116, R121, R122, R123, R193, R194, R195, R196, R209, R210, R321, R322
142-096-00	A1	RES TF 9.1K 5% 0.1W SMT	16	R127, R218, R304, R366, R454, R513, R596, R647, R703, R767, R823, R879, R935, R991, R1047, R1103

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Fader PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
143-426-00	A1	RES TF 24.3K 1% 0.1W SMT	16	R128, R219, R305, R367, R455, R514, R597, R648, R704, R768, R824, R880, R936, R992, R1048, R1104
143-457-00	A1	RES MF SM .1W 1% 51K1 OHM	16	R129, R220, R306, R369, R456, R515, R598, R649, R705, R769, R825, R881, R937, R993, R1049, R1105
143-465-00	A1	RES TF 61.9K 1% 0.1W SMT	16	R130, R221, R307, R370, R457, R516, R599, R650, R706, R770, R826, R882, R938, R994, R1050, R1106
142-123-00	A1	RES TF SM .1W 5% 100K OHM	48	R1, R2, R10, R11, R12, R13, R14, R15, R16, R17, R22, R23, R27, R28, R36, R37, R132, R133, R222, R223, R308, R309, R376, R378, R458, R459, R517, R518, R600, R601, R651, R652, R707, R708, R771, R772, R827, R828, R883, R884, R939, R940, R995, R996, R1051, R1052, R1107, R1108
142-046-00	A1	RES TF 75 5% 0.1W SMT	16	R173, R274, R340, R422, R487, R564, R593, R677, R741, R797, R853, R909, R965, R1021, R1077, R1133
0007859	A00	RES POT 10K 25% LOG K	6	R192, R208, R224, R240, R256, R272
143-248-00	A01	RES TF 374 1% 0.1W SMT	12	R198, R214, R230, R246, R262, R278, R373, R387, R402, R417, R443, R473
142-115-00	A1	RES TF 51K 5% 0.1W SMT	10	R200, R216, R232, R248, R264, R280, R375, R389, R404, R419
0007876	A00	RES SMT 5% 3K9 OHM 1210	6	R202, R728, R729, R730, R731, R732
0007858	A00	RES FADER 60MM DUAL 10K 10% LOG KD	1	R441
0007829	A00	RES SMT 5% 3K9 OHM 2010	1	R632
0000162	A	SWITCH 2PDT PUSH V SNAPIN	87	SW1, SW2, SW3, SW4, SW6, SW7, SW8, SW9, SW11, SW12, SW13, SW14, SW16, SW17, SW18, SW19, SW20, SW21, SW22, SW23, SW25, SW26, SW27, SW28, SW30, SW31, SW32, SW33, SW35, SW36, SW37, SW38, SW40, SW41, SW42, SW43, SW45, SW46, SW47, SW48, SW50, SW51, SW52, SW53, SW55, SW56, SW57, SW58, SW60, SW61, SW62, SW63, SW65, SW66, SW67, SW68, SW70, SW71, SW72, SW73, SW75, SW76, SW77, SW78, SW80, SW81, SW82, SW83, SW84, SW85, SW86, SW87, SW88, SW89, SW90, SW91, SW92, SW93, SW94, SW95, SW96, SW97, SW98, SW99, SW100, SW101, SW102
0000160	A	SWITCH 4PDT PUSH V SNAPIN	16	SW5, SW10, SW15, SW24, SW29, SW34, SW39, SW44, SW49, SW54, SW59, SW64, SW69, SW74, SW79, SW107
320-006-00	A	OPAMP 2068E	4	U2, U5, U7, U9
323-002-00	C	LM339D QUAD COMP SM	16	U11, U14, U26, U30, U33, U36, U39, U43, U47, U50, U55, U58, U62, U64, U67, U70
320-020-00	A	IC, DUAL OP AMP NJM4565G	16	U12, U15, U28, U31, U34, U37, U41, U45, U48, U51, U56, U59, U63, U65, U68, U71
0007774	A00	LOW NOISE DUAL OP AMP NJM2114L SIP	14	U13, U18, U20, U22, U27, U29, U35, U40, U42, U44, U49, U57, U61, U66



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





Fader PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
 304-029-02	C00	LED GRN W/.425 SPACER TR	55	D2, D4, D5, D8, D12, D15, D16, D19, D20, D22, D24, D28, D32, D34, D35, D41, D43, D44, D50, D52, D53, D59, D61, D62, D64, D69, D71, D72, D78, D80, D81, D83, D88, D89, D95, D97, D98, D105, D107, D108, D114, D116, D117, D123, D125, D126, D132, D134, D135, D141, D143, D144, D150, D152, D153
 304-028-02	C00	LED YEL W/.425 SPACER TR	16	D6, D23, D36, D45, D54, D63, D73, D84, D90, D99, D109, D118, D127, D136, D145, D154
0009393-12	A00	HEADER, 12 CONTACT, 1.5MM PITCH, LOW PROFILE, ZH SERIES JST	6	J3, J4, J15, J17, J62, J79
400-269-00	A	TERM QDISC RTA .250 PCMT	1	J14
0005168-07	A00	HDR 7P .098X1 SHRD TJC3	1	J71
0008529	A00	RES POT DUAL 5K 15% LOG 5K 15% REV LOG C/A W/DETENT	16	R54, R179, R284, R346, R430, R493, R574, R626, R683, R747, R803, R859, R915, R971, R1027, R1083
140-115-00	A	RES TF SM .1W 5% 51K OHM	2	R71, R90
0008320-04	B00	STDF SWAGE M3 X 8MM 4.7 DIA	5	SO1, SO2, SO3, SO4, SO5
0008320-01	B00	STDF SWAGE M3 X 13.8MM 4.7 DIA	26	SO16, SO17, SO18, SO19, SO20, SO21, SO22, SO23, SO24, SO25, SO26, SO27, SO28, SO29, SO30, SO31, SO32, SO33, SO34, SO35, SO36, SO41, SO42, SO43, SO44, SO45
0008793-03	A00	SM RECTANGLE BUTTON 5X7MM CONTROL GREY	65	BT1, BT2, BT3, BT6, BT7, BT8, BT11, BT12, BT13, BT16, BT17, BT19, BT20, BT21, BT22, BT25, BT26, BT27, BT30, BT31, BT32, BT35, BT36, BT37, BT40, BT41, BT42, BT45, BT46, BT47, BT50, BT51, BT52, BT55, BT56, BT57, BT60, BT61, BT62, BT65, BT66, BT67, BT70, BT71, BT72, BT75, BT76, BT77, BT80, BT81, BT82, BT84, BT86, BT88, BT90, BT92, BT94, BT95, BT96, BT97, BT98, BT99, BT100, BT101, BT102
0008794-06	B00	MED RECTANGLE BUTTON 11.5 X 8.5 MM "MUTE" CONTROL GREY	16	BT4, BT9, BT14, BT18, BT23, BT28, BT33, BT38, BT43, BT48, BT53, BT58, BT63, BT68, BT73, BT78
0008794-05	B00	MED RECTANGLE BUTTON 11.5 X 8.5 MM "SOLO" CONTROL GREY	16	BT5, BT10, BT15, BT24, BT29, BT34, BT39, BT44, BT49, BT54, BT59, BT64, BT69, BT74, BT79, BT107
0008793-00	A00	SM RECTANGLE BUTTON 5X7MM GREY 600	6	BT83, BT85, BT87, BT89, BT91, BT93
143-000-00	A01	RES SM .1W 0 OHM	3	R534, R535, R536
0007962-02	C00	PCB, ONYX 1640 FADER	1	Z2

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## 0007965-00 REV B00 METER PCB ASSEMBLY

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
0007880	A00	CAP LYTIC 100UF 20% 16V KS 5MM	2	C1, C2
212-010-00	B1	CER .1 +80/-20 25V Z5U SM	1	C5
212-001-00	B1	CER .01UF 10% 50V X7R SM	19	C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26
 0007895	A00	LED ARRAY 12 SEGM VLZII	2	D1, D5
300-011-03	A	DIO, SIGNAL, DUAL, BAV99	3	D2, D4, D6
 0008318	A00	LED GREEN T1-3/4	1	D3
0005169-06	A00	HDR 6P .098X1 SHRD RTA TJC3	1	J1
311-007-00	A	XSTR SW PNP 2SA1415	2	Q1, Q6
311-002-00	A	XSTR PNP MMST4403 SMT	1	Q2
311-001-00	B	XSTR NPN IMBT4401 SMT	3	Q3, Q4, Q5
140-046-00	A	RES TF SM .1W 5% 75 OHM	2	R1, R32
140-025-00	A	RES TF SM .1W 5% 10 OHM	2	R2, R3
0007784	A00	RES SMT 5% 2K0 OHM 2010	1	R4
140-115-00	A	RES TF SM .1W 5% 51K OHM	2	R6, R8
140-097-00	A	RES TF SM .1W 5% 10K OHM	1	R7
145-201-00	B	RES MF SM .1W 1% 121 OHM	1	R20
145-402-00	B	RES MF SM .1W 1% 13K7 OHM	1	R25
140-104-00	A	RES TF SM .1W 5% 20K OHM	1	R29
0008320-00	B00	STDF SWAGE M3 X 6.5MM 4.7 DIA	2	SO1, SO2
320-020-00	A	IC, DUAL OP AMP NJM4565G	1	U1
323-002-00	C	LM339D QUAD COMP SM	6	U2, U3, U4, U5, U6, U7
0007964-00	B00	PCB, METER, ONYX	1	Z100
212-039-00	A1	CER .33UF 16V 10% X7R SM	2	C6, C7
142-147-00	A10	RES TF 1M 5% 0.1W SMT	2	R33, R34
223-006-00	A1	LYT 10UF 20% 50V SM	2	C3, C4
145-485-00	B	RES MF SM .1W 1% 100K OHM	5	R5, R16, R17, R18, R30
145-258-00	B	RES MF SM .1W 1% 475 OHM	3	R9, R10, R11
145-269-00	B	RES MF SM .1W 1% 619 OHM	1	R12
145-318-00	B	RES MF SM .1W 1% 2K00 OHM	1	R13
145-389-00	B	RES MF SM .1W 1% 10K0 OHM	1	R14
145-456-00	B	RES MF SM .1W 1% 49K9 OHM	1	R15
140-139-00	A	RES TF SM .1W 5% 470K OHM	2	R19, R26
145-243-00	D00	RES TF 332 1% 0.1W SMT 0805	2	R21, R22
145-261-00	B	RES MF SM .1W 1% 511 OHM	1	R23
145-300-00	B	RES MF SM .1W 1% 1K30 OHM	1	R24
145-193-00	B	RES MF SM .1W 1% 100 OHM	2	R27, R28
143-165-00	A01	RES TF 51.1 1% 0.1W SMT	1	R31

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



0008168-00 REV B00 SUMMING AMP PCB ASSEMBLY

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
212-004-00	C1	CER 220PF 5% 50V NPO SM	8	C12, C14, C26, C28, C80, C88, C100, C112
220-002-02	A1	LYT 47UF 20% 25V RAD TR	16	C1, C2, C3, C4, C5, C6, C7, C8, C86, C87, C89, C92, C93, C95, C96, C97
212-001-00	B1	CER .01UF 10% 50V X7R SM	46	C13, C15, C16, C17, C18, C19, C21, C27, C29, C30, C36, C37, C38, C39, C40, C43, C44, C47, C50, C51, C54, C55, C56, C57, C60, C61, C64, C65, C66, C68, C71, C73, C77, C79, C82, C84, C90, C94, C99, C102, C103, C105, C109, C111, C114, C116
212-003-00	B1	CER 100PF 5% 50V NPO SM	34	C9, C10, C11, C22, C23, C24, C31, C32, C33, C34, C35, C41, C42, C45, C46, C48, C49, C52, C53, C58, C59, C62, C63, C67, C69, C72, C74, C78, C83, C91, C98, C104, C110, C115
0003100	A00	CER 10PF 5% 100V NPO SM 0603	3	C85, C106, C117
0000752	A00	CAP AL EL 100UF 20% 16V RAD	10	C20, C25, C70, C75, C76, C81, C101, C107, C108, C113
0005168-03	A00	HDR 3P .098X1 SHRD TJC3	1	J1
0005168-13	A00	HDR 13P .098X1 SHRD TJC3	1	J11
0005168-09	A00	HDR 9P .098X1 SHRD TJC3	1	J57
0000094	A00	FERRITE BEAD 120 OHM 0805	30	L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16, L17, L18, L19, L20, L21, L22, L23, L24, L25, L26, L27, L28, L29, L30
142-104-00	A1	RES TF 20K 5% 0.1W SMT	3	R12, R17, R85
143-318-00	A1	RES MF SM .1W 1% 2K00 OHM	8	R2, R8, R23, R26, R76, R83, R97, R111
143-344-00	A1	RES TF 3.40K 1% 0.1W SMT	6	R57, R58, R59, R60, R61, R65
0007781	A00	RES SMT 1% 51.1 OHM 1210	4	R18, R19, R24, R25
143-361-00	A1	RES MF SM .1W 1% 5K11 OHM	48	R4, R5, R6, R9, R10, R11, R27, R28, R29, R32, R33, R38, R45, R46, R47, R48, R49, R50, R53, R54, R63, R64, R67, R68, R69, R70, R72, R74, R78, R81, R82, R87, R88, R89, R90, R91, R93, R95, R99, R102, R103, R104, R105, R107, R109, R113, R116, R117
142-066-00	A1	RES TF 510 5% 0.1W SMT	9	R35, R39, R40, R51, R52, R55, R56, R62, R66
142-025-00	A1	RES TF SM .1W 5% 10 OHM	6	R1, R3, R80, R86, R101, R115
143-285-00	A1	RES MF SM .1W 1% 909 OHM	3	R7, R16, R84

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Summing Amp PCB assembly continued..

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
143-389-00	A1	RES MF SM .1W 1% 10K0 OHM	6	R73, R79, R94, R100, R108, R114
146-165-00	A00	RES MF SM .25W 1% 51.1 OHM	6	R71, R77, R92, R98, R106, R112
143-405-00	A1	RES TF 14.7K 1% 0.1W SMT	3	R75, R96, R110
0007774	A00	LOW NOISE DUAL OP AMP NJM2114L SIP	23	U1, U2, U3, U4, U5, U6, U7, U8, U9, U10, U11, U12, U13, U14, U15, U16, U17, U18, U19, U20, U21, U22, U23
0008167-01	B00	PCB, SUMMING AMP, ONYX 1640	1	Z1
0009393-12	A00	HEADER, 12 CONTACT, 1.5MM PITCH, LOW PROFILE, ZH SERIES JST	6	J2, J5, J6, J7, J15, J17
400-173-00	A	TERM .25 QKDS PCMT STABLE	1	J3
143-260-00	A1	RES MF SM .1W 1% 499 OHM	6	R13, R14, R15, R34, R36, R37
143-373-00	A1	RES MF SM .1W 1% 6K81 OHM	9	R20, R21, R22, R30, R31, R41, R42, R43, R44



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





0008186-00 REV A00 DIRECT OUT PCB ASSEMBLY

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
220-002-02	A1	LYT 47UF 20% 25V RAD TR	16	C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18
400-140-00	A	DSUB 25P F PCMNT RTA .318	2	J1, J11
0005168-15	A00	HDR 15P .098X1 SHRD TJC3	1	J5
0005168-13	A00	HDR 13P .098X1 SHRD TJC3	1	J6
0007785	A00	RES SMT 5% 150 OHM 2512	16	R5, R7, R9, R11, R13, R15, R17, R19, R21, R23, R25, R27, R29, R31, R33, R35
0007783	A00	RES SMT 5% 150 OHM 2010	16	R6, R8, R10, R12, R14, R16, R18, R20, R22, R24, R26, R28, R30, R32, R34, R36
0008321-00	A00	STDF SWAGE M3.5 X 12MML F	2	SO1, SO2
0008187-00	A00	PCB, ONYX 1640/820: DIRECT OUT	1	Z100
0003646-34	A00	HDR 34P .10X2 STR SHRD PLZD 3M	1	J4





0010144-01 REV B00 POST REGULATOR PCB ASSEMBLY

PART#	REV	DESCRIPTION	QTY	REF DESIGNATOR
220-005-02	B1	LYT 470UF 20% 25V RAD TR	4	C1, C3, C4, C8
212-010-00	B1	CER .1 +80/-20 25V Z5U SM	4	C2, C7, C9, C10
0005168-12	A00	HDR 12P .098X1 SHRD TJC3	2	J1, J2
143-331-00	A1	RES MF SM .1W 1% 2K49 OHM	2	R4, R7
142-139-00	A10	RES TF 470K 5% 0.1W SMT	2	R6, R9
142-073-00	A1	RES TF SM .1W 5% 1K0 OHM	2	R3, R18
212-037-00	A1	CER 1000PF 2% 50V NPO SMT	2	C5, C6
143-389-00	A1	RES MF SM .1W 1% 10K0 OHM	4	R5, R8, R10, R11
0010143-01	B00	PCB ONYX 1640 POST REGULATOR	1	Z1
220-027-02	B1	LYT 10UF 20% 50V RAD TR	2	C11, C12
 0011137	A00	MOSFET NCH 60V DPAK	1	Q1
 0011136	A00	MOSFET PCH 55V DPAK	1	Q3
143-328-00	A1	RES TF 2.32K 1% 0.1W SMT	2	R1, R17
143-234-00	A01	RES MF SM .1W 1% 267 OHM	2	R2, R20
320-006-00	A	OPAMP 2068E	1	U1



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

