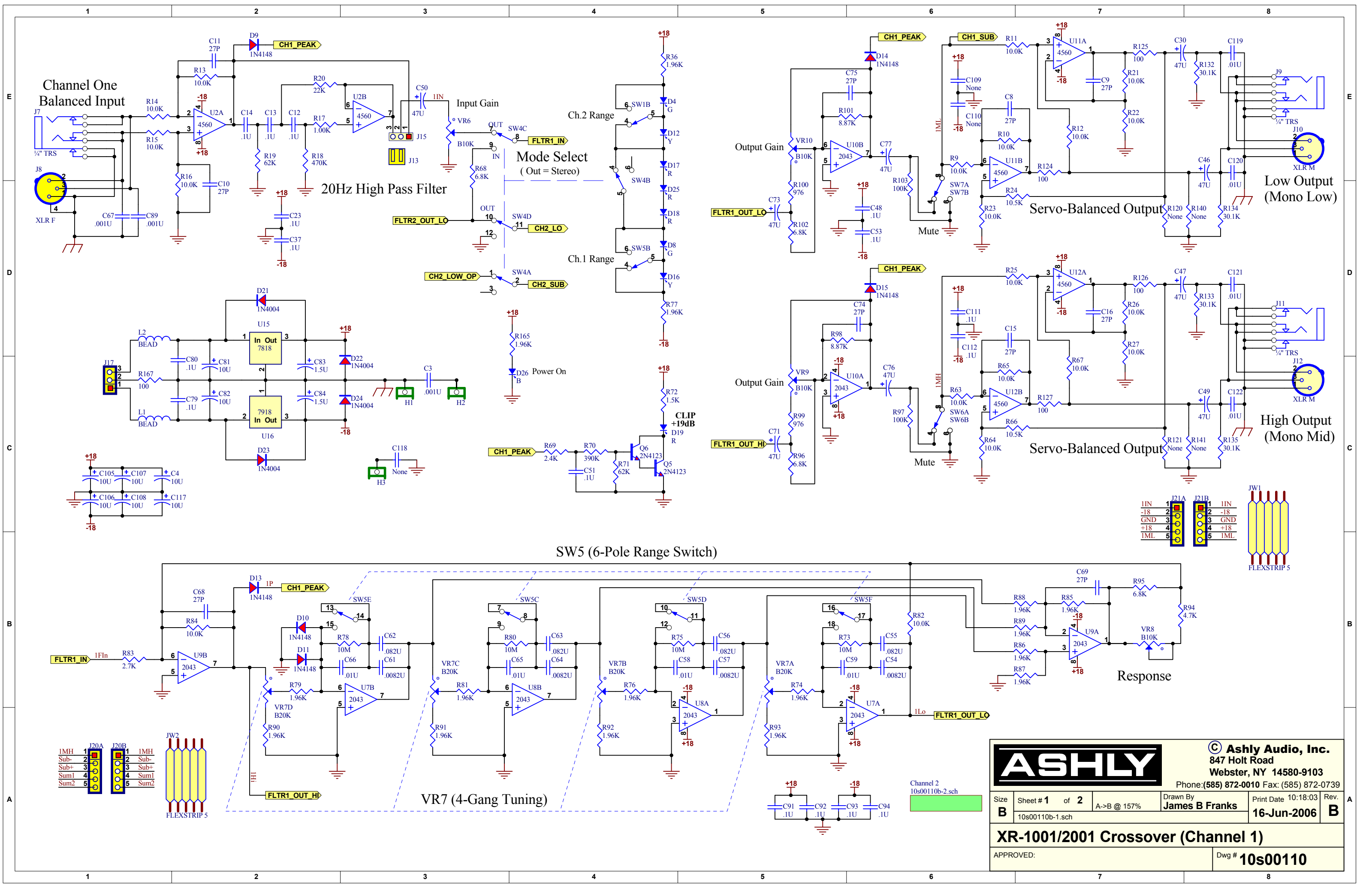


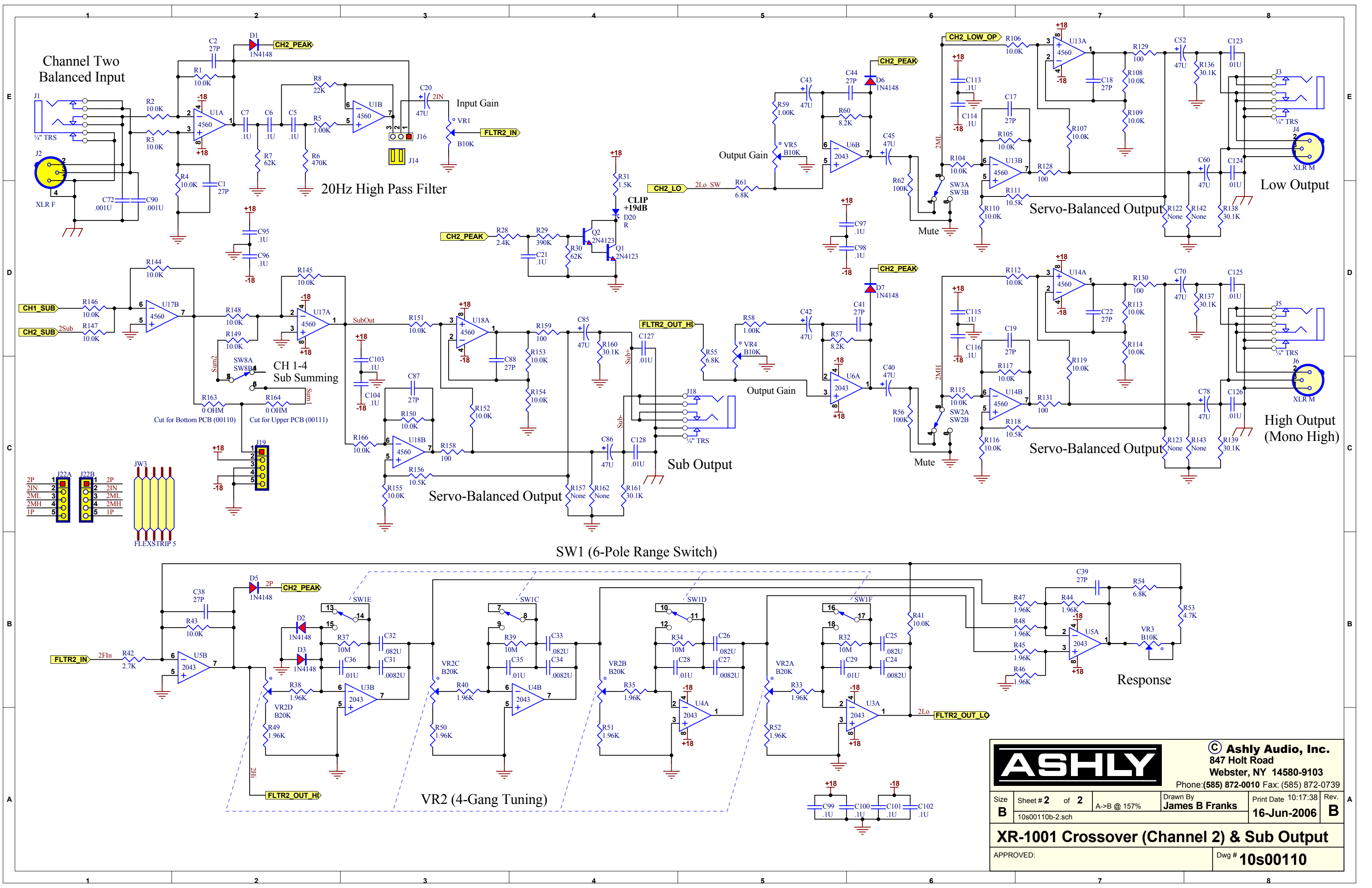


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Size B	Sheet # 1 of 2	A->B @ 157%	Drawn By James B Franks	Print Date 10:18:03	Rev. B
	10s00110b-1.sch			16-Jun-2006	

XR-1001/2001 Crossover (Channel 1)

APPROVED: _____ Dwg # **10s00110**



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Size B	Sheet # 2 of 2 10s00110b-2.sch	A->B @ 157%	Drawn By James B Franks	Print Date 10:17:38 16-Jun-2006	Rev. B
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XR-1001 Crossover (Channel 2) & Sub Output

APPROVED:

Dwg # **10s00110**

Rev	Date	DCN	PCB Rev	Description of Change
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A	10/93	XXX	0000	New PCB - One card front to back. Added output mutes, XLR and 1/4" connectors +/- 18V rails, recessed Range switch, Onboard pwr supply.100 PC.
B	3/94	XXX	0101	Mech. Fixes, Changed mute circuit, bypassed power sequencer - network.
C	7/95	204	0404	Phase reverse on channel 1 - changed CH.1 output level circuit - XFMR to Jack.
D	12/01	585	0404	Added Mono Low Out to XR-1001 only - connect wire between R9 and R105.
A	04/08/06	XXX	0000	Analog update. Replaced power supply with switching power supply. All outputs to servo-balanced. Changed mon-sub to active summing circuit. Changed PCB number.
B	06/16/06	XXX	0101	1% resistor consolidation. Fixed chanel 2 output pots. Added .01uF capacitors on all outputs.

ASHLY AUDIO INC.

TECHNICIAN: Jim Franks
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FAX
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TITLE:
Ashly XR-1001/2001
Electronic Crossover

ASHLY

PART NO.: o10p00110

REV: 1

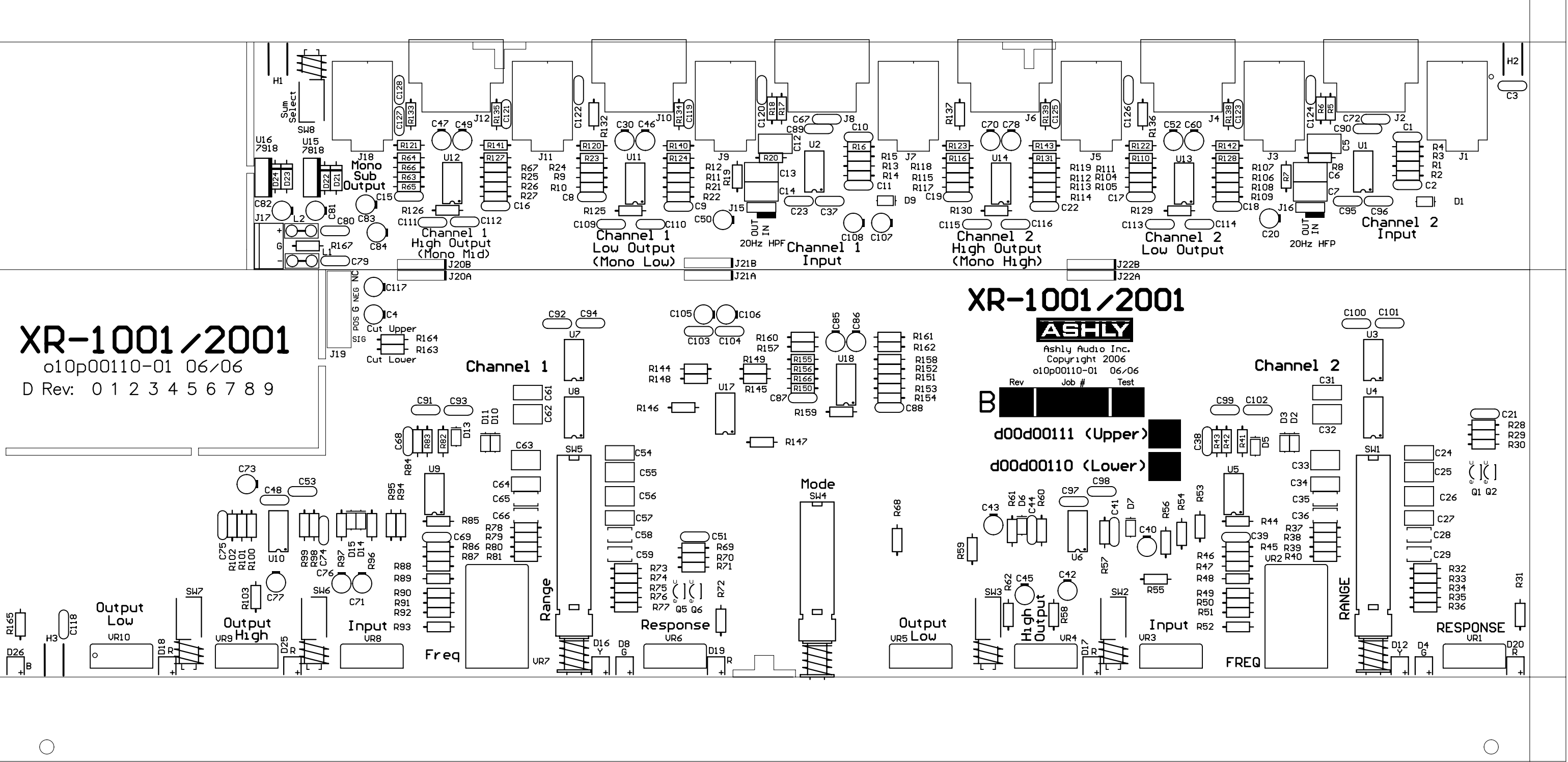
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DATE: 16-Jun-2006

FILE NAME:
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LAYER: Top Overlay

GERBER: GTO



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TITLE:
Ashly XR-1001/2001
Electronic Crossover

ASHLY

PART NO.:
o10p00110

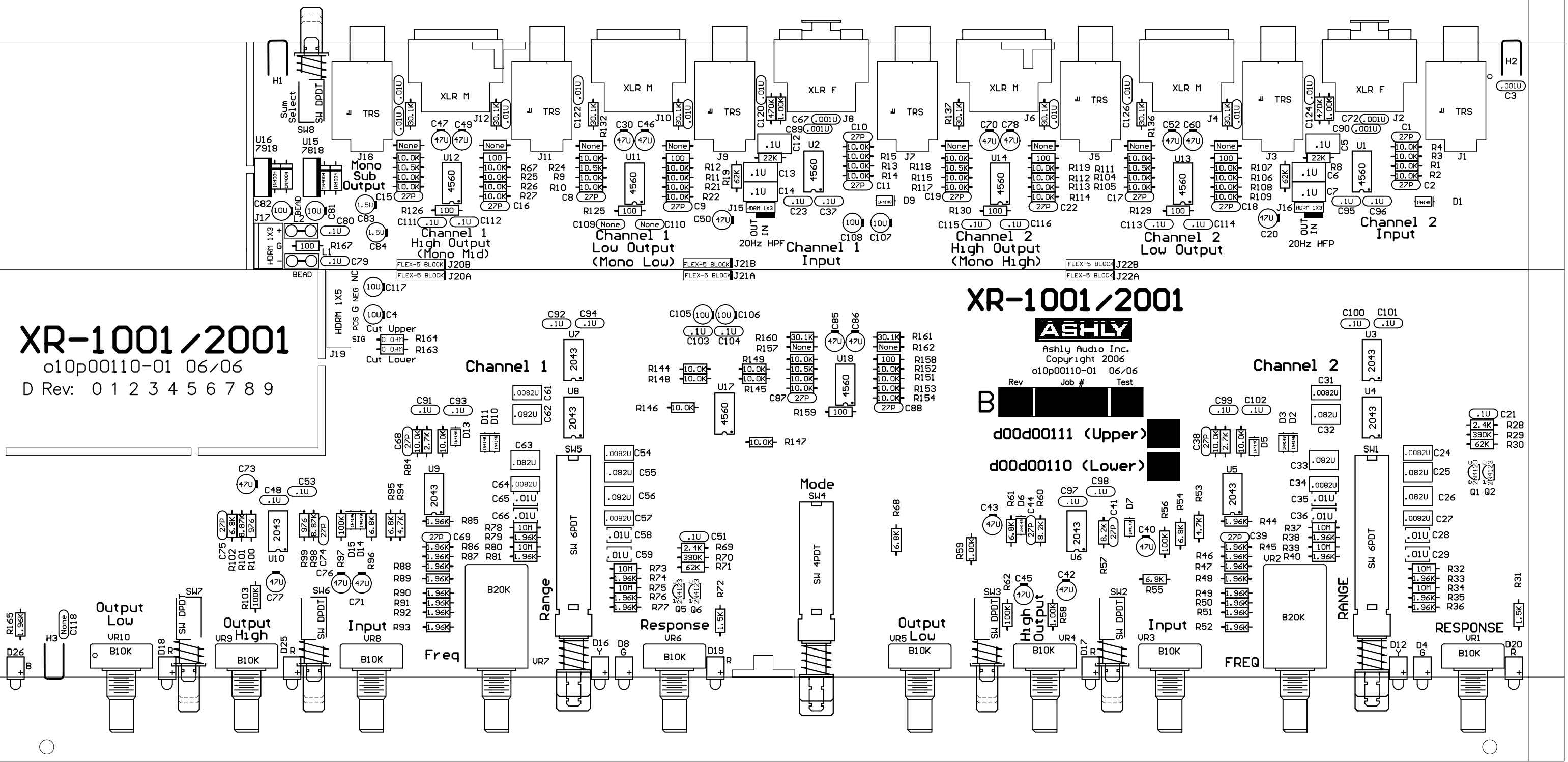
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DRILL REV 1

DATE: 16-Jun-2006

FILE NAME:
o10p00110-0101b.pcb

LAYER: Top Overlay

GERBER: .GTO



00110 XR-1001/2001 Bill of Materials (Rev. B)

(Note: "None" parts are not listed)

Designator	Description	Stock Code
C1	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C10	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C100	.1µF 50V ±20% Ceramic-Z5U Radial	p05r00104
C101	.1µF 50V ±20% Ceramic-Z5U Radial	p05r00104
C102	.1µF 50V ±20% Ceramic-Z5U Radial	p05r00104
C103	.1µF 50V ±20% Ceramic-Z5U Radial	p05r00104
C104	.1µF 50V ±20% Ceramic-Z5U Radial	p05r00104
C105	10µF 50V ±20% Electrolytic Radial	p15r00106
C106	10µF 50V ±20% Electrolytic Radial	p15r00106
C107	10µF 50V ±20% Electrolytic Radial	p15r00106
C108	10µF 50V ±20% Electrolytic Radial	p15r00106
C11	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C111	.1µF 50V ±20% Ceramic-Z5U Radial	p05r00104
C112	.1µF 50V ±20% Ceramic-Z5U Radial	p05r00104
C113	.1µF 50V ±20% Ceramic-Z5U Radial	p05r00104
C114	.1µF 50V ±20% Ceramic-Z5U Radial	p05r00104
C115	.1µF 50V ±20% Ceramic-Z5U Radial	p05r00104
C116	.1µF 50V ±20% Ceramic-Z5U Radial	p05r00104
C117	10µF 50V ±20% Electrolytic Radial	p15r00106
C119	.01µF 50V ±20% Ceramic-Z5U Disc	p01r00103
C12	.1µF 100V ±2% Film-Polyester Radial	p05r10104
C120	.01µF 50V ±20% Ceramic-Z5U Disc	p01r00103
C121	.01µF 50V ±20% Ceramic-Z5U Disc	p01r00103
C122	.01µF 50V ±20% Ceramic-Z5U Disc	p01r00103
C123	.01µF 50V ±20% Ceramic-Z5U Disc	p01r00103
C124	.01µF 50V ±20% Ceramic-Z5U Disc	p01r00103
C125	.01µF 50V ±20% Ceramic-Z5U Disc	p01r00103
C126	.01µF 50V ±20% Ceramic-Z5U Disc	p01r00103
C127	.01µF 50V ±20% Ceramic-Z5U Disc	p01r00103
C128	.01µF 50V ±20% Ceramic-Z5U Disc	p01r00103
C13	.1µF 100V ±2% Film-Polyester Radial	p05r10104
C14	.1µF 100V ±2% Film-Polyester Radial	p05r10104
C15	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C16	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270

00110 XR-1001/2001 Bill of Materials (Rev. B)

(Note: "None" parts are not listed)

Designator	Description	Stock Code
C17	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C18	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C19	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C2	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C20	47µF 16V ±20% Electrolytic Radial	p15r00476
C21	.1µF 50V ±20% Ceramic-Z5U Radial	p05r00104
C22	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C23	.1µF 50V ±20% Ceramic-Z5U Radial	p05r00104
C24	.0082µF 50V ±5% Film-Polyester Radial	p05r00822
C25	.082µF 50V ±5% Film-Polyester Radial	p05r00823
C26	.082µF 50V ±5% Film-Polyester Radial	p05r00823
C27	.0082µF 50V ±5% Film-Polyester Radial	p05r00822
C28	.01µF 100V ±2% Film-Polyester Radial	p05r00103
C29	.01µF 100V ±2% Film-Polyester Radial	p05r00103
C3	.001µF 50V ±10% Ceramic-Y5P Disc	p01r00102
C30	47µF 16V ±20% Electrolytic Radial	p15r00476
C31	.0082µF 50V ±5% Film-Polyester Radial	p05r00822
C32	.082µF 50V ±5% Film-Polyester Radial	p05r00823
C33	.082µF 50V ±5% Film-Polyester Radial	p05r00823
C34	.0082µF 50V ±5% Film-Polyester Radial	p05r00822
C35	.01µF 100V ±2% Film-Polyester Radial	p05r00103
C36	.01µF 100V ±2% Film-Polyester Radial	p05r00103
C37	.1µF 50V ±20% Ceramic-Z5U Radial	p05r00104
C38	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C39	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C4	10µF 50V ±20% Electrolytic Radial	p15r00106
C40	47µF 16V ±20% Electrolytic Radial	p15r00476
C41	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C42	47µF 16V ±20% Electrolytic Radial	p15r00476
C43	47µF 16V ±20% Electrolytic Radial	p15r00476
C44	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C45	47µF 16V ±20% Electrolytic Radial	p15r00476
C46	47µF 16V ±20% Electrolytic Radial	p15r00476
C47	47µF 16V ±20% Electrolytic Radial	p15r00476

00110 XR-1001/2001 Bill of Materials (Rev. B)

(Note: "None" parts are not listed)

Designator	Description	Stock Code
C48	.1μF 50V ±20% Ceramic-Z5U Radial	p05r00104
C49	47μF 16V ±20% Electrolytic Radial	p15r00476
C5	.1μF 100V ±2% Film-Polyester Radial	p05r10104
C50	47μF 16V ±20% Electrolytic Radial	p15r00476
C51	.1μF 50V ±20% Ceramic-Z5U Radial	p05r00104
C52	47μF 16V ±20% Electrolytic Radial	p15r00476
C53	.1μF 50V ±20% Ceramic-Z5U Radial	p05r00104
C54	.0082μF 50V ±5% Film-Polyester Radial	p05r00822
C55	.082μF 50V ±5% Film-Polyester Radial	p05r00823
C56	.082μF 50V ±5% Film-Polyester Radial	p05r00823
C57	.0082μF 50V ±5% Film-Polyester Radial	p05r00822
C58	.01μF 100V ±2% Film-Polyester Radial	p05r00103
C59	.01μF 100V ±2% Film-Polyester Radial	p05r00103
C6	.1μF 100V ±2% Film-Polyester Radial	p05r10104
C60	47μF 16V ±20% Electrolytic Radial	p15r00476
C61	.0082μF 50V ±5% Film-Polyester Radial	p05r00822
C62	.082μF 50V ±5% Film-Polyester Radial	p05r00823
C63	.082μF 50V ±5% Film-Polyester Radial	p05r00823
C64	.0082μF 50V ±5% Film-Polyester Radial	p05r00822
C65	.01μF 100V ±2% Film-Polyester Radial	p05r00103
C66	.01μF 100V ±2% Film-Polyester Radial	p05r00103
C67	.001μF 50V ±10% Ceramic-Y5P Disc	p01r00102
C68	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C69	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C7	.1μF 100V ±2% Film-Polyester Radial	p05r10104
C70	47μF 16V ±20% Electrolytic Radial	p15r00476
C71	47μF 16V ±20% Electrolytic Radial	p15r00476
C72	.001μF 50V ±10% Ceramic-Y5P Disc	p01r00102
C73	47μF 16V ±20% Electrolytic Radial	p15r00476
C74	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C75	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C76	47μF 16V ±20% Electrolytic Radial	p15r00476
C77	47μF 16V ±20% Electrolytic Radial	p15r00476
C78	47μF 16V ±20% Electrolytic Radial	p15r00476

00110 XR-1001/2001 Bill of Materials (Rev. B)

(Note: "None" parts are not listed)

Designator	Description	Stock Code
C79	.1μF 50V ±20% Ceramic-Z5U Radial	p05r00104
C8	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C80	.1μF 50V ±20% Ceramic-Z5U Radial	p05r00104
C81	10μF 50V ±20% Electrolytic Radial	p15r00106
C82	10μF 50V ±20% Electrolytic Radial	p15r00106
C83	1.5μF 50V ±20% Electrolytic Radial	p15r00155
C84	1.5μF 50V ±20% Electrolytic Radial	p15r00155
C85	47μF 16V ±20% Electrolytic Radial	p15r00476
C86	47μF 16V ±20% Electrolytic Radial	p15r00476
C87	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C88	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C89	.001μF 50V ±10% Ceramic-Y5P Disc	p01r00102
C9	27pF 50V ±10% Ceramic-C0G(NP0) Disc	p01r00270
C90	.001μF 50V ±10% Ceramic-Y5P Disc	p01r00102
C91	.1μF 50V ±20% Ceramic-Z5U Radial	p05r00104
C92	.1μF 50V ±20% Ceramic-Z5U Radial	p05r00104
C93	.1μF 50V ±20% Ceramic-Z5U Radial	p05r00104
C94	.1μF 50V ±20% Ceramic-Z5U Radial	p05r00104
C95	.1μF 50V ±20% Ceramic-Z5U Radial	p05r00104
C96	.1μF 50V ±20% Ceramic-Z5U Radial	p05r00104
C97	.1μF 50V ±20% Ceramic-Z5U Radial	p05r00104
C98	.1μF 50V ±20% Ceramic-Z5U Radial	p05r00104
C99	.1μF 50V ±20% Ceramic-Z5U Radial	p05r00104
D1	100V Signal 200mA 500mW DO-35 1N4148 AX .30	r33d04148
D10	100V Signal 200mA 500mW DO-35 1N4148 AX .30	r33d04148
D11	100V Signal 200mA 500mW DO-35 1N4148 AX .30	r33d04148
D12	LED T1 Through Hole Diffused Yellow 590nm Radial	r30c05374
D13	100V Signal 200mA 500mW DO-35 1N4148 AX .30	r33d04148
D14	100V Signal 200mA 500mW DO-35 1N4148 AX .30	r33d04148
D15	100V Signal 200mA 500mW DO-35 1N4148 AX .30	r33d04148
D16	LED T1 Through Hole Diffused Yellow 590nm Radial	r30c05374
D17	LED T1 Through-Hole Diffused Red 625nm Radial	r30a05474
D18	LED T1 Through-Hole Diffused Red 625nm Radial	r30a05474
D19	LED T1 Through-Hole Diffused Red 625nm Radial	r30a05474

00110 XR-1001/2001 Bill of Materials (Rev. B)

(Note: "None" parts are not listed)

Designator	Description	Stock Code
D2	100V Signal 200mA 500mW DO-35 1N4148 AX .30	r33d04148
D20	LED T1 Through-Hole Diffused Red 625nm Radial	r30a05474
D21	400V Silicon 1A DO-41 1N4004	r33a04004
D22	400V Silicon 1A DO-41 1N4004	r33a04004
D23	400V Silicon 1A DO-41 1N4004	r33a04004
D24	400V Silicon 1A DO-41 1N4004	r33a04004
D25	LED T1 Through-Hole Diffused Red 625nm Radial	r30a05474
D26	LED T1 Through Hole Diffused Blue Radial	r30d02061
D3	100V Signal 200mA 500mW DO-35 1N4148 AX .30	r33d04148
D4	LED T1 Through Hole Diffused Green 565nm Radial	r30b05274
D5	100V Signal 200mA 500mW DO-35 1N4148 AX .30	r33d04148
D6	100V Signal 200mA 500mW DO-35 1N4148 AX .30	r33d04148
D7	100V Signal 200mA 500mW DO-35 1N4148 AX .30	r33d04148
D8	LED T1 Through Hole Diffused Green 565nm Radial	r30b05274
D9	100V Signal 200mA 500mW DO-35 1N4148 AX .30	r33d04148
H1	Right Angle Bracket PC Mount Snap-In 4/40	h25a04400
H2	Right Angle Bracket PC Mount Snap-In 4/40	h25a04400
H3	Right Angle Bracket PC Mount Snap-In 4/40	h25a04400
J1	1/4" TRS Jack Right Angle Half Threaded Bushing NEUTRIK NRJ6HH	s12p43151
J10	XLR Male Right Angle NEUTRIK NC3MAH	s10p21030
J11	1/4" TRS Jack Right Angle Half Threaded Bushing NEUTRIK NRJ6HH	s12p43151
J12	XLR Male Right Angle NEUTRIK NC3MAH	s10p21030
J13	1x2 Female Shunt @.100"	s71s32102
J14	1x2 Female Shunt @.100"	s71s32102
J15	1x3 Male Straight Post Header PC Mount @.100"	s71p14403
J16	1x3 Male Straight Post Header PC Mount @.100"	s71p14403
J17	1x3 Male Straight Post Header PC Mount @.156" w Lock Ramp AMP 640445-3	s71p14453
J18	1/4" TRS Jack Right Angle Half Threaded Bushing NEUTRIK NRJ6HH	s12p43151
J19	1x5 Male Straight Square Post Header PC Mount @.156" AMP 640383-5	s71p13835
J2	XLR Female Right Angle + Lock Tab + Separate Chassis Ground NEUTRIK NC3FAH2	s10p41300
J3	1/4" TRS Jack Right Angle Half Threaded Bushing NEUTRIK NRJ6HH	s12p43151
J4	XLR Male Right Angle NEUTRIK NC3MAH	s10p21030
J5	1/4" TRS Jack Right Angle Half Threaded Bushing NEUTRIK NRJ6HH	s12p43151
J6	XLR Male Right Angle NEUTRIK NC3MAH	s10p21030

00110 XR-1001/2001 Bill of Materials (Rev. B)

(Note: "None" parts are not listed)

Designator	Description	Stock Code
J7	¼" TRS Jack Right Angle Half Threaded Bushing NEUTRIK NRJ6HH	s12p43151
J8	XLR Female Right Angle + Lock Tab + Separate Chassis Ground NEUTRIK NC3FAH2	s10p41300
J9	¼" TRS Jack Right Angle Half Threaded Bushing NEUTRIK NRJ6HH	s12p43151
JW1	3" Flex 5 Conductor .100" Center	m10b10530
JW2	3" Flex 5 Conductor .100" Center	m10b10530
JW3	3" Flex 5 Conductor .100" Center	m10b10530
L1	Ferrite Bead Radial 5mm >100 ohm @1MHz	p84a00006
L2	Ferrite Bead Radial 5mm >100 ohm @1MHz	p84a00006
Q1	2N4123 30V 200mA NPN General Purpose Amplifier TO-92	r34a04123
Q2	2N4123 30V 200mA NPN General Purpose Amplifier TO-92	r34a04123
Q5	2N4123 30V 200mA NPN General Purpose Amplifier TO-92	r34a04123
Q6	2N4123 30V 200mA NPN General Purpose Amplifier TO-92	r34a04123
R1	10.0K ¼W ±1% Metal Film	p39a01002
R10	10.0K ¼W ±1% Metal Film	p39a01002
R100	976 Ohm ¼W ±1% Metal Film	p39a09760
R101	8.87K ¼W ±1% Metal Film	p39a08871
R102	6.8K ¼W ±5% Carbon Film	p43a00682
R103	100K ¼W ±5% Carbon Film	p43a00104
R104	10.0K ¼W ±1% Metal Film	p39a01002
R105	10.0K ¼W ±1% Metal Film	p39a01002
R106	10.0K ¼W ±1% Metal Film	p39a01002
R107	10.0K ¼W ±1% Metal Film	p39a01002
R108	10.0K ¼W ±1% Metal Film	p39a01002
R109	10.0K ¼W ±1% Metal Film	p39a01002
R11	10.0K ¼W ±1% Metal Film	p39a01002
R110	10.0K ¼W ±1% Metal Film	p39a01002
R111	10.5K ¼W ±1% Metal Film	p39a01052
R112	10.0K ¼W ±1% Metal Film	p39a01002
R113	10.0K ¼W ±1% Metal Film	p39a01002
R114	10.0K ¼W ±1% Metal Film	p39a01002
R115	10.0K ¼W ±1% Metal Film	p39a01002
R116	10.0K ¼W ±1% Metal Film	p39a01002
R117	10.0K ¼W ±1% Metal Film	p39a01002
R118	10.5K ¼W ±1% Metal Film	p39a01052

00110 XR-1001/2001 Bill of Materials (Rev. B)

(Note: "None" parts are not listed)

Designator	Description	Stock Code
R119	10.0K ¼W ±1% Metal Film	p39a01002
R12	10.0K ¼W ±1% Metal Film	p39a01002
R124	100 Ohm ¼W ±5% Carbon Film	p43a00101
R125	100 Ohm ¼W ±5% Carbon Film	p43a00101
R126	100 Ohm ¼W ±5% Carbon Film	p43a00101
R127	100 Ohm ¼W ±5% Carbon Film	p43a00101
R128	100 Ohm ¼W ±5% Carbon Film	p43a00101
R129	100 Ohm ¼W ±5% Carbon Film	p43a00101
R13	10.0K ¼W ±1% Metal Film	p39a01002
R130	100 Ohm ¼W ±5% Carbon Film	p43a00101
R131	100 Ohm ¼W ±5% Carbon Film	p43a00101
R132	30.1K ¼W ±1% Metal Film	p39a03012
R133	30.1K ¼W ±1% Metal Film	p39a03012
R134	30.1K ¼W ±1% Metal Film	p39a03012
R135	30.1K ¼W ±1% Metal Film	p39a03012
R136	30.1K ¼W ±1% Metal Film	p39a03012
R137	30.1K ¼W ±1% Metal Film	p39a03012
R138	30.1K ¼W ±1% Metal Film	p39a03012
R139	30.1K ¼W ±1% Metal Film	p39a03012
R14	10.0K ¼W ±1% Metal Film	p39a01002
R144	10.0K ¼W ±1% Metal Film	p39a01002
R145	10.0K ¼W ±1% Metal Film	p39a01002
R146	10.0K ¼W ±1% Metal Film	p39a01002
R147	10.0K ¼W ±1% Metal Film	p39a01002
R148	10.0K ¼W ±1% Metal Film	p39a01002
R149	10.0K ¼W ±1% Metal Film	p39a01002
R15	10.0K ¼W ±1% Metal Film	p39a01002
R150	10.0K ¼W ±1% Metal Film	p39a01002
R151	10.0K ¼W ±1% Metal Film	p39a01002
R152	10.0K ¼W ±1% Metal Film	p39a01002
R153	10.0K ¼W ±1% Metal Film	p39a01002
R154	10.0K ¼W ±1% Metal Film	p39a01002
R155	10.0K ¼W ±1% Metal Film	p39a01002
R156	10.5K ¼W ±1% Metal Film	p39a01052

00110 XR-1001/2001 Bill of Materials (Rev. B)

(Note: "None" parts are not listed)

Designator	Description	Stock Code
R158	100 Ohm ¼W ±5% Carbon Film	p43a00101
R159	100 Ohm ¼W ±5% Carbon Film	p43a00101
R16	10.0K ¼W ±1% Metal Film	p39a01002
R160	30.1K ¼W ±1% Metal Film	p39a03012
R161	30.1K ¼W ±1% Metal Film	p39a03012
R163	0 Ohm ¼W ±5% Carbon Film	p43a00000
R164	0 Ohm ¼W ±5% Carbon Film	p43a00000
R165	1.96K ¼W ±1% Metal Film	p39a01961
R166	10.0K ¼W ±1% Metal Film	p39a01002
R167	100 Ohm ¼W ±5% Carbon Film	p43a00101
R17	1.00K ¼W ±1% Metal Film	p39a01001
R18	470K ¼W ±5% Carbon Film	p43a00474
R19	62K ¼W ±5% Carbon Film	p43a00623
R2	10.0K ¼W ±1% Metal Film	p39a01002
R20	22K ¼W ±5% Carbon Film	p43a00223
R21	10.0K ¼W ±1% Metal Film	p39a01002
R22	10.0K ¼W ±1% Metal Film	p39a01002
R23	10.0K ¼W ±1% Metal Film	p39a01002
R24	10.5K ¼W ±1% Metal Film	p39a01052
R25	10.0K ¼W ±1% Metal Film	p39a01002
R26	10.0K ¼W ±1% Metal Film	p39a01002
R27	10.0K ¼W ±1% Metal Film	p39a01002
R28	2.4K ¼W ±5% Carbon Film	p43a00242
R29	390K ¼W ±5% Carbon Film	p43a00394
R3	10.0K ¼W ±1% Metal Film	p39a01002
R30	62K ¼W ±5% Carbon Film	p43a00623
R31	1.5K ¼W ±5% Carbon Film	p43a00152
R32	10M ¼W ±5% Carbon Film	p43a00106
R33	1.96K ¼W ±1% Metal Film	p39a01961
R34	10M ¼W ±5% Carbon Film	p43a00106
R35	1.96K ¼W ±1% Metal Film	p39a01961
R36	1.96K ¼W ±1% Metal Film	p39a01961
R37	10M ¼W ±5% Carbon Film	p43a00106
R38	1.96K ¼W ±1% Metal Film	p39a01961

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(Note: "None" parts are not listed)

Designator	Description	Stock Code
R39	10M ¼W ±5% Carbon Film	p43a00106
R4	10.0K ¼W ±1% Metal Film	p39a01002
R40	1.96K ¼W ±1% Metal Film	p39a01961
R41	10.0K ¼W ±1% Metal Film	p39a01002
R42	2.7K ¼W ±5% Carbon Film	p43a00272
R43	10.0K ¼W ±1% Metal Film	p39a01002
R44	1.96K ¼W ±1% Metal Film	p39a01961
R45	1.96K ¼W ±1% Metal Film	p39a01961
R46	1.96K ¼W ±1% Metal Film	p39a01961
R47	1.96K ¼W ±1% Metal Film	p39a01961
R48	1.96K ¼W ±1% Metal Film	p39a01961
R49	1.96K ¼W ±1% Metal Film	p39a01961
R5	1.00K ¼W ±1% Metal Film	p39a01001
R50	1.96K ¼W ±1% Metal Film	p39a01961
R51	1.96K ¼W ±1% Metal Film	p39a01961
R52	1.96K ¼W ±1% Metal Film	p39a01961
R53	4.7K ¼W ±5% Carbon Film	p43a00472
R54	6.8K ¼W ±5% Carbon Film	p43a00682
R55	6.8K ¼W ±5% Carbon Film	p43a00682
R56	100K ¼W ±5% Carbon Film	p43a00104
R57	8.2K ¼W ±5% Carbon Film	p43a00822
R58	1.00K ¼W ±1% Metal Film	p39a01001
R59	1.00K ¼W ±1% Metal Film	p39a01001
R6	470K ¼W ±5% Carbon Film	p43a00474
R60	8.2K ¼W ±5% Carbon Film	p43a00822
R61	6.8K ¼W ±5% Carbon Film	p43a00682
R62	100K ¼W ±5% Carbon Film	p43a00104
R63	10.0K ¼W ±1% Metal Film	p39a01002
R64	10.0K ¼W ±1% Metal Film	p39a01002
R65	10.0K ¼W ±1% Metal Film	p39a01002
R66	10.5K ¼W ±1% Metal Film	p39a01052
R67	10.0K ¼W ±1% Metal Film	p39a01002
R68	6.8K ¼W ±5% Carbon Film	p43a00682
R69	2.4K ¼W ±5% Carbon Film	p43a00242

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(Note: "None" parts are not listed)

Designator	Description	Stock Code
R7	62K ¼W ±5% Carbon Film	p43a00623
R70	390K ¼W ±5% Carbon Film	p43a00394
R71	62K ¼W ±5% Carbon Film	p43a00623
R72	1.5K ¼W ±5% Carbon Film	p43a00152
R73	10M ¼W ±5% Carbon Film	p43a00106
R74	1.96K ¼W ±1% Metal Film	p39a01961
R75	10M ¼W ±5% Carbon Film	p43a00106
R76	1.96K ¼W ±1% Metal Film	p39a01961
R77	1.96K ¼W ±1% Metal Film	p39a01961
R78	10M ¼W ±5% Carbon Film	p43a00106
R79	1.96K ¼W ±1% Metal Film	p39a01961
R8	22K ¼W ±5% Carbon Film	p43a00223
R80	10M ¼W ±5% Carbon Film	p43a00106
R81	1.96K ¼W ±1% Metal Film	p39a01961
R82	10.0K ¼W ±1% Metal Film	p39a01002
R83	2.7K ¼W ±5% Carbon Film	p43a00272
R84	10.0K ¼W ±1% Metal Film	p39a01002
R85	1.96K ¼W ±1% Metal Film	p39a01961
R86	1.96K ¼W ±1% Metal Film	p39a01961
R87	1.96K ¼W ±1% Metal Film	p39a01961
R88	1.96K ¼W ±1% Metal Film	p39a01961
R89	1.96K ¼W ±1% Metal Film	p39a01961
R9	10.0K ¼W ±1% Metal Film	p39a01002
R90	1.96K ¼W ±1% Metal Film	p39a01961
R91	1.96K ¼W ±1% Metal Film	p39a01961
R92	1.96K ¼W ±1% Metal Film	p39a01961
R93	1.96K ¼W ±1% Metal Film	p39a01961
R94	4.7K ¼W ±5% Carbon Film	p43a00472
R95	6.8K ¼W ±5% Carbon Film	p43a00682
R96	6.8K ¼W ±5% Carbon Film	p43a00682
R97	100K ¼W ±5% Carbon Film	p43a00104
R98	8.87K ¼W ±1% Metal Film	p39a08871
R99	976 Ohm ¼W ±1% Metal Film	p39a09760
SW1	Right Angle 6PDT PC Mount Push-Push 3.3mm Shaft E-Switch TA	j35I06020

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(Note: "None" parts are not listed)

Designator	Description	Stock Code
SW2	Mini Right Angle DPDT PC Mount Pushbutton 2.8mm Shaft	j35d02600
SW3	Mini Right Angle DPDT PC Mount Pushbutton 2.8mm Shaft	j35d02600
SW4	Right Angle 4PDT PC Mount Push-Push 3.3mm Shaft E-Switch TA	j35h04020
SW5	Right Angle 6PDT PC Mount Push-Push 3.3mm Shaft E-Switch TA	j35l06020
SW6	Mini Right Angle DPDT PC Mount Pushbutton 2.8mm Shaft	j35d02600
SW7	Mini Right Angle DPDT PC Mount Pushbutton 2.8mm Shaft	j35d02600
SW8	Mini Right Angle DPDT PC Mount Pushbutton 2.8mm Shaft	j35d02600
U1	NJM4560D Dual Operational Amplifier 8-Pin DIP	r10a04560
U10	NJM4560D Dual Operational Amplifier 8-Pin DIP	r10a04560
U11	NJM4560D Dual Operational Amplifier 8-Pin DIP	r10a04560
U12	NJM4560D Dual Operational Amplifier 8-Pin DIP	r10a04560
U13	NJM4560D Dual Operational Amplifier 8-Pin DIP	r10a04560
U14	NJM4560D Dual Operational Amplifier 8-Pin DIP	r10a04560
U15	KA7818 18V 3-Terminal 1A Positive Voltage Regulator TO-220	r14a07818
U16	KA7918 -18V 3-Terminal 1A Negative Voltage Regulator TO-220	r14a07918
U17	NJM4560D Dual Operational Amplifier 8-Pin DIP	r10a04560
U18	NJM4560D Dual Operational Amplifier 8-Pin DIP	r10a04560
U2	NJM4560D Dual Operational Amplifier 8-Pin DIP	r10a04560
U3	NJM4560D Dual Operational Amplifier 8-Pin DIP	r10a04560
U4	NJM4560D Dual Operational Amplifier 8-Pin DIP	r10a04560
U5	NJM2043D Dual Low-Noise Preamplifier 8-Pin DIP	r10a02043
U6	NJM2043D Dual Low-Noise Preamplifier 8-Pin DIP	r10a02043
U7	NJM4560D Dual Operational Amplifier 8-Pin DIP	r10a04560
U8	NJM4560D Dual Operational Amplifier 8-Pin DIP	r10a04560
U9	NJM2043D Dual Low-Noise Preamplifier 8-Pin DIP	r10a02043
VR1	Noble V16L4(PH2D) b10k	p61f00103
VR10	Noble V16L4(PH2D) b10k	p61f00103
VR2	Noble V16L4(PH2D) b20k(x4)	p64f00203
VR3	Noble V16L4(PH2D) b10k	p61f00103
VR4	Noble V16L4(PH2D) b10k	p61f00103
VR5	Noble V16L4(PH2D) b10k	p61f00103
VR6	Noble V16L4(PH2D) b10k	p61f00103
VR7	Noble V16L4(PH2D) b20k(x4)	p64f00203
VR8	Noble V16L4(PH2D) b10k	p61f00103

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(Note: "None" parts are not listed)

Designator	Description	Stock Code
VR9	Noble V16L4(PH2D) b10k	p61f00103