



NOT USED
 C34
 D7
 P4
 Q10
 C15
 C11
 U4

LAST REF.
 C34
 D7
 P4
 Q10
 C15
 C11
 U4

REV	A3
Size	F69XA301.SCH
Title	FX69 GRUNGE 11-1180
5639 So. Riley Lane Salt Lake City, Utah 84107	
DOD	

Software
GRUNGE 11-1180
A301.SCH
Of Materials
Reference

Revised: March 10, 1993
Revision: A3

March 10, 1993 15:41:02
Part SYMAN Description

Reference	Part	SYMAN	Description
BT1	+9V SNAP	24-1024	Snap For 9V Battery, FX/PDS Products
C1	120PF	62-0002	120 pF Capacitor 20% 50V Ceramic Disc
C2,C8,C15,C16,C22,C26, C30,C31	.047 AM	62-0067	0.047 uF Capacitor 20% 50V Axial Monolithic
C3	1U	60-0044-01	1.0 uF Capacitor -20%,+80% 50V Electrolytic
C4,C9	.033	56-2027	0.033 uF Capacitor 10% 100V Polyester Film
C5	100PF	62-0020	100 pF Capacitor 20% 50V Ceramic Disc
C6	.027	56-2026	0.027 uF Capacitor 10% 100V Polyester Film
C7	.010	56-2022	0.010 uF Capacitor 10% 100V Polyester Film
C10,C18,C23	50PF	62-0008	50 pF Capacitor 5% 50V Ceramic Disc
C11,C12,C27,C32	10U	60-0049-01	10.0 uF Capacitor -20%,+80% 16V Electrolytic
C13,R20	OMIT		
C14,C28,C29	.22 LL	60-0039	0.22 uF Capacitor 20% 50V Electrolytic, LL-S
C17	1 NP	60-0046-01	1.0 uF Capacitor -20%,+80% 16V Elect., N.P.
C19	.013 3%	56-0082	0.013 uF Capacitor 3% 100V Polyester Film
C20	.0010	56-2008	0.0010 uF Capacitor 10% 100V Polyester Film
C21	1.5 T	62-0164	1.5 uF Capacitor 20% 25V Tantalum
C24	.0082	56-2019	0.0082 uF Capacitor 10% 100V Polyester Film
C25	.33 T	62-0160	0.33 uF Capacitor 10% 35V Tantalum
C33,C34	330U 2	60-0056-02	330.0 uF Capacitor -20%,+80% 16V Electrolytic-I
D1,D2,D3,D4,D6	1N4148	70-0002	1N4148 Silicon Switching Diode, 75 Volts PIV
D5	LDLR	70-2059	Red Light Emitting Diode, T1.75 Case
D7	1N4001	70-0001	1N4001 Silicon Rectifier, 1 Amp, 50 Volts PIV
J1,J3	PH1/4 CH M	32-0086	USE J250 V1
J2	PH1/8 CH M	32-0087	1/8 Phone Jack, Chassis Mount, Metal Threads
JP1,JP2,JP3,JP4,JP5,JP6	0	50-0050	0 Ohm Resistor 5% 1/4 Watt Carbon Film
P1,P2,P3,P4	P100K W FX	40-2006	100 K "W" Pot, Fx Style Leads
Q1,Q2,Q4	J113	70-1011	J113A N-Channel JFET, RDS(on) < 80 Ohm, VGS(off) -5V
Q3,Q5,Q6,Q7,Q8,Q9	2N5088	70-1007	2N5088 Transistor, NPN, Low Level Amplifier Transistor
Q10	J111	70-1010	J111A N-Channel JFET, RDS(on) <30 Ohm, VGS(off) -10V
R1,R3,R4,R10,R13,R14,R16, R21,R23,R30,R31,R35,R38, R50,R53,R54	10K	50-0020	10 KOhm Resistor 5% 1/4 Watt Carbon Film
R2,R27,R28	1M	50-0045	1 MOhm Resistor 5% 1/4 Watt Carbon Film
R5,R7,R8,R15,R22,R26,R29, R32,R42,R47,R48,R49,R52	100K	50-0036	100 KOhm Resistor 5% 1/4 Watt Carbon Film
R9,R19,R36	47K	50-0030	47 KOhm Resistor 5% 1/4 Watt Carbon Film
R11,R18,R44	2K	50-0013	2 KOhm Resistor 5% 1/4 Watt Carbon Film
R12,R25,R45	220K	50-0040	220 KOhm Resistor 5% 1/4 Watt Carbon Film
R17	470	50-0006	470 Ohm Resistor 5% 1/4 Watt Carbon Film
R33	3.3K	50-0014	3.3 KOhm Resistor 5% 1/4 Watt Carbon Film
R34,R41	1K	50-0012	1 KOhm Resistor 5% 1/4 Watt Carbon Film
R37	330	50-0005	330 Ohm Resistor 5% 1/4 Watt Carbon Film
R39	470K	50-0042	470 KOhm Resistor 5% 1/4 Watt Carbon Film
R40,R43	22K	50-0025	22 KOhm Resistor 5% 1/4 Watt Carbon Film
R51,R55	100	50-0003	100 Ohm Resistor 5% 1/4 Watt Carbon Film
SW1	TOUCH P	44-0032	Lite Touch Switch For FX/PDS
U1,U2,U4	4558	72-4024	4558 Wide Bandwidth Dual Op-Amp
U3	4007A	72-0032	Dual CMOS Transistor Pair Plus CMOS Inverter