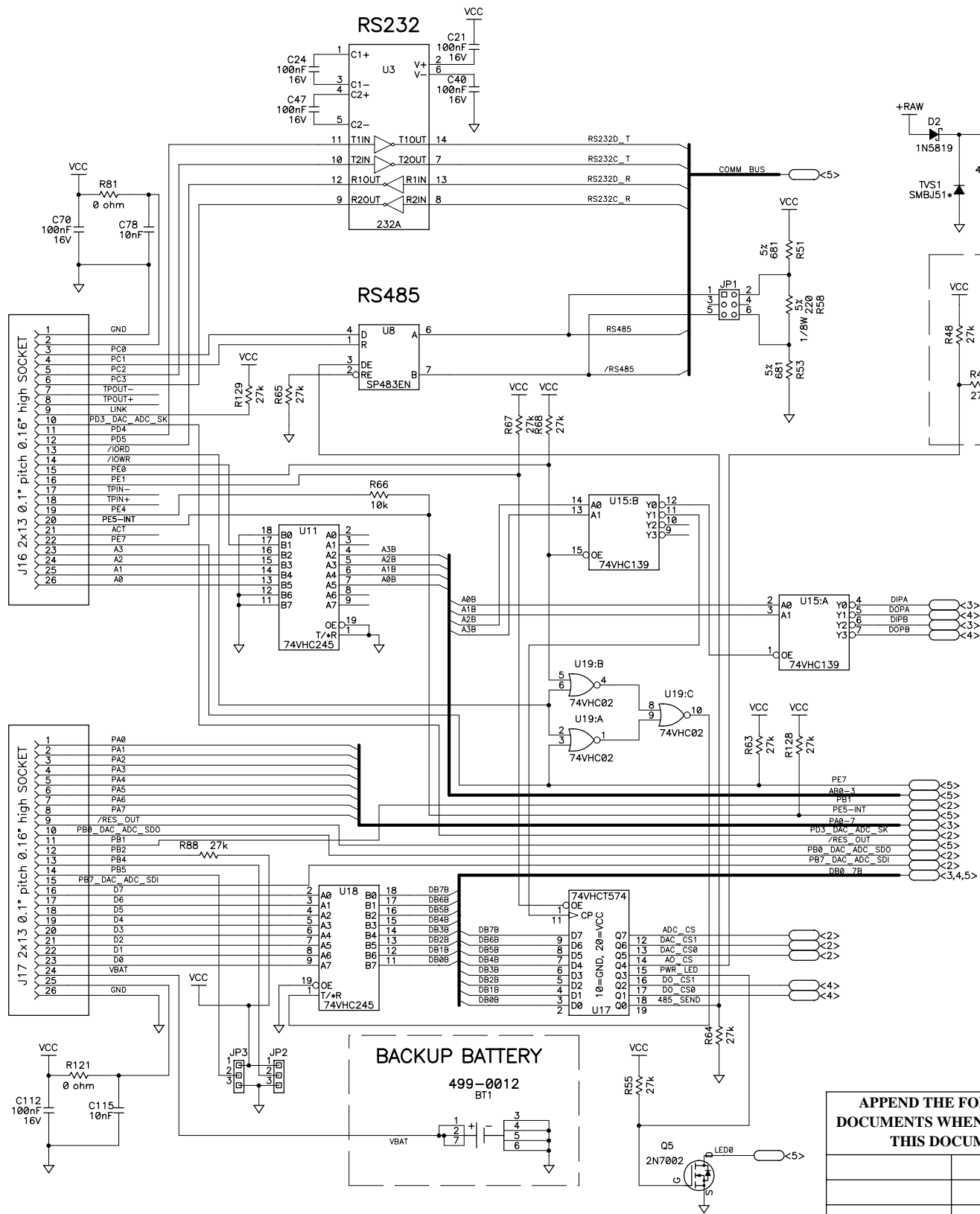
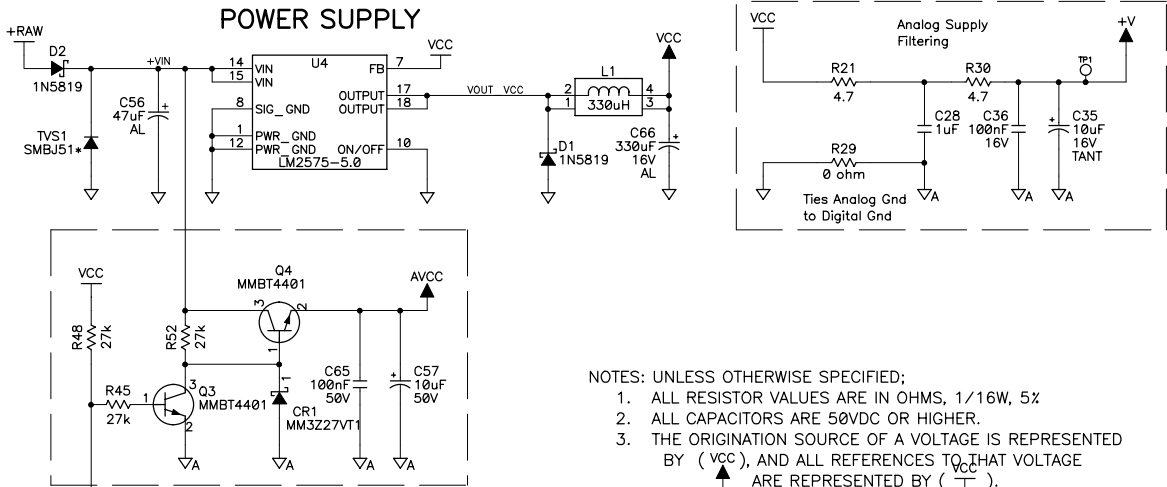


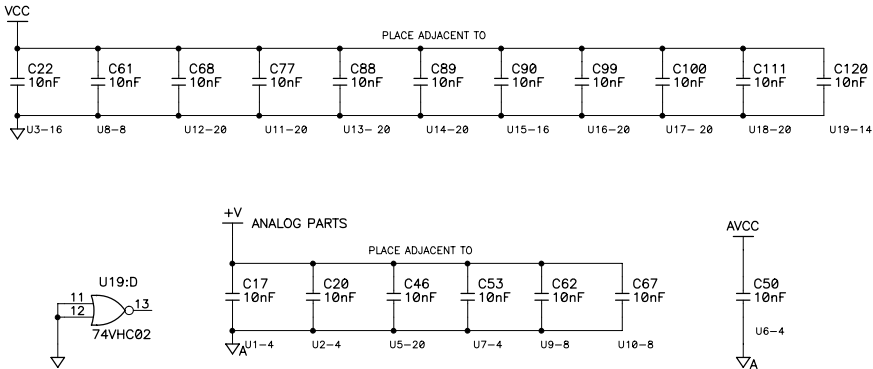
To Micro-core




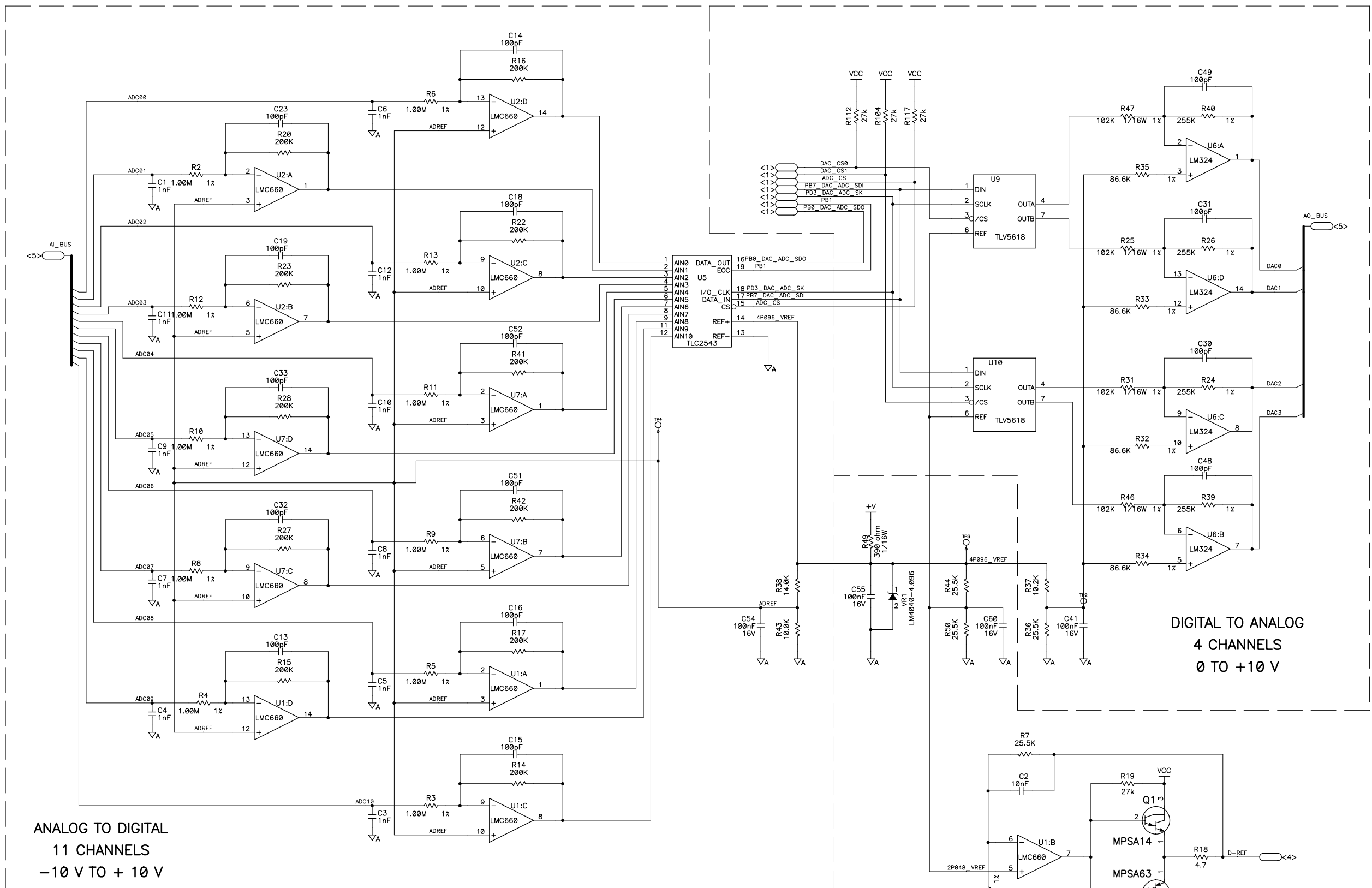
REVISION HISTORY			REVISION APPROVAL			
REV	ECO	DESCRIPTION OF CHANGE	PROJECT ENGINEER	APPROVAL DATE	DOCUMENT CONTROL	APPROVAL DATE
A	E11714	INITIAL RELEASE				

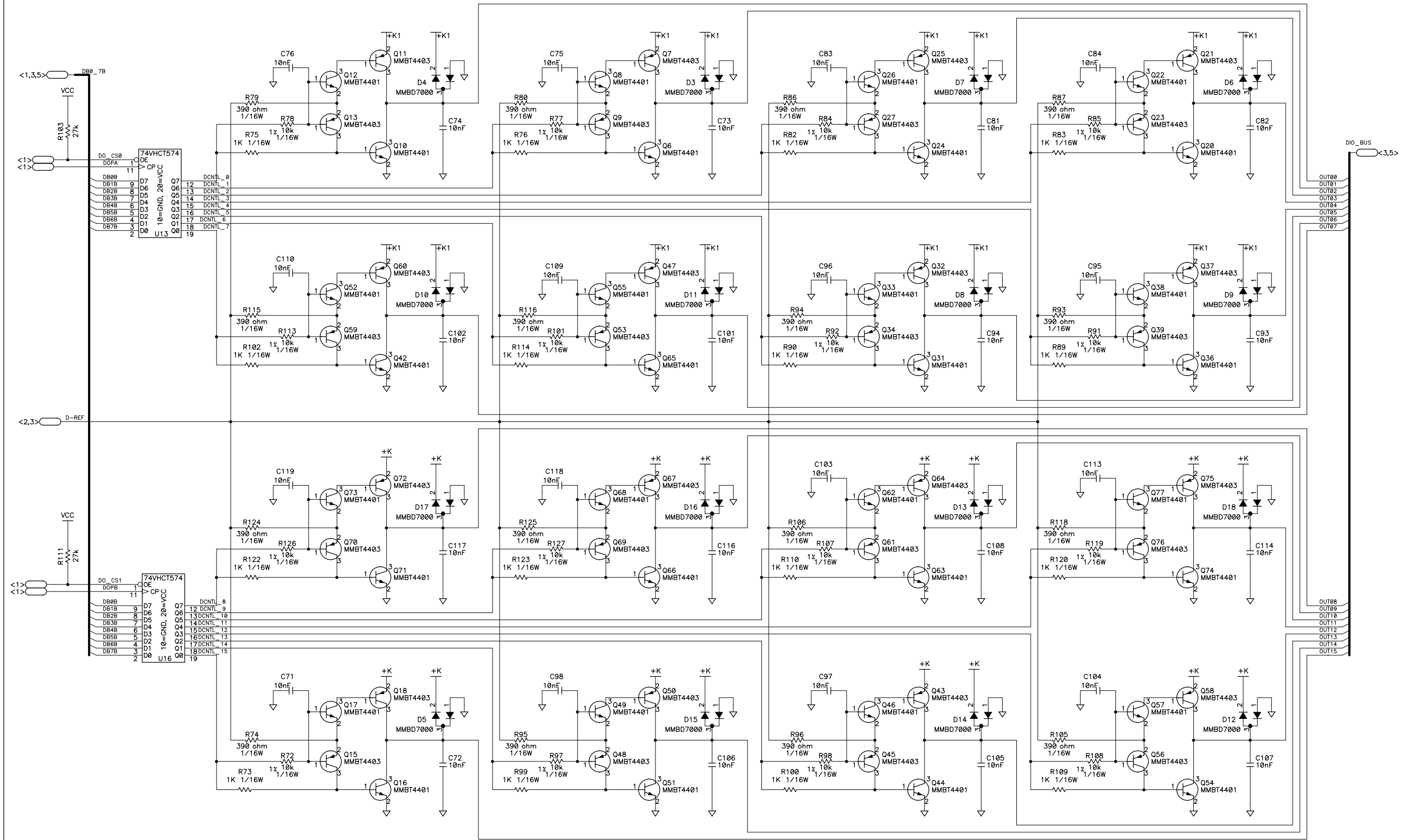


- NOTES: UNLESS OTHERWISE SPECIFIED;
- ALL RESISTOR VALUES ARE IN OHMS, 1/16W, 5%
 - ALL CAPACITORS ARE 50VDC OR HIGHER.
 - THE ORIGINATION SOURCE OF A VOLTAGE IS REPRESENTED BY (VCC), AND ALL REFERENCES TO THAT VOLTAGE ARE REPRESENTED BY (VCC).
 - OUTLINED CIRCUIT MAY NOT BE STUFFED DEPENDING ON MODEL, SEE STUFFING CHART FOR CLARIFICATION.
 - COMPONENT VALUES SHOWN WITH AN ASTERISK (*) FOLLOWING THE VALUE, MAY HAVE DIFFERENT VALUES, OR MAY NOT BE STUFFED DEPENDING ON MODEL. SEE STUFFING CHART FOR CLARIFICATION.

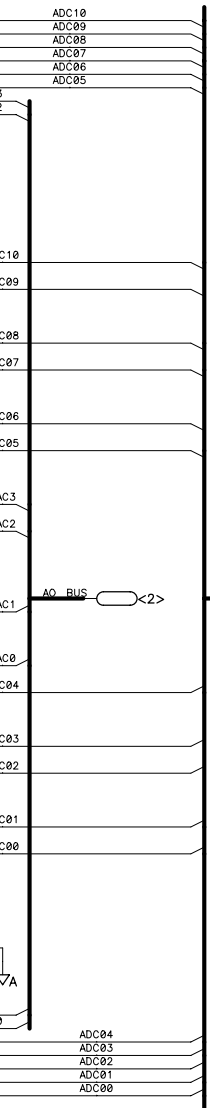
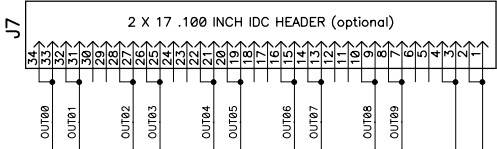
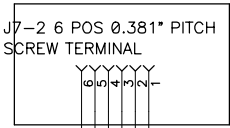
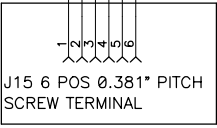
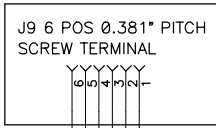
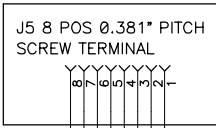
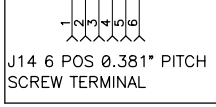
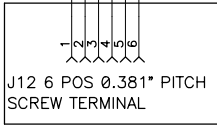
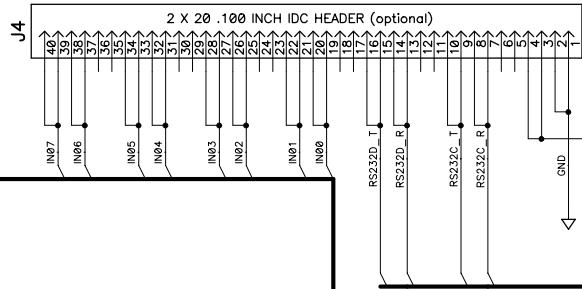
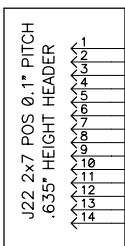
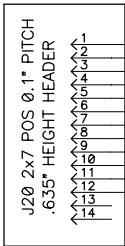
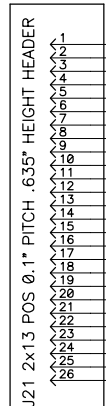
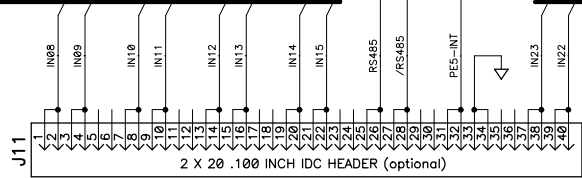
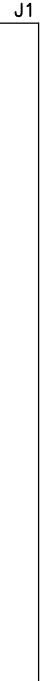
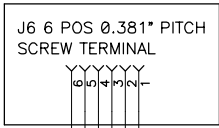
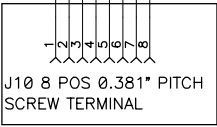
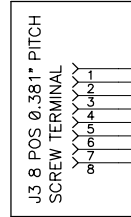
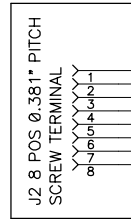


APPEND THE FOLLOWING DOCUMENTS WHEN CHANGING THIS DOCUMENT:		DRAWING CONTENT:		TITLE SCHEMATIC DIAGRAM BL2100 SERIES		 2900 SPAFFORD ST. DAVIS, CA 95616 530 - 757-4616	
		DRAWN BY: (INITIAL RELEASE) Joe Feng	Oct 1,2001				
		REVISED BY: O.FOLLAND	01OCT2001				
		APPROVALS: INITIAL RELEASE					
		PROJECT ENGINEER: Joe Feng	Oct 1,2001				
		ENGINEERING MANAGER:					
				SIZE C	DWG NO. 090-0124		
		SIGNATURES	DATE	SCALE NONE	RELEASE DATE		SHEET 1 OF 6





2 X 25 .100 INCH IDC HEADER



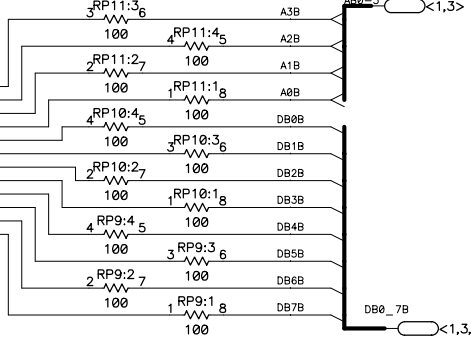
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ADC04
ADC03
ADC02
ADC01
ADC00

VCC
PE7
LED0
LED1
LED2
LED3
LED4
LED5
LED6
GND

VCC

R62 /RES_OUT
390 1/16W E7



DIO_BUS <3>

COMM_BUS <1>

DIO_BUS <3,4>

STUFFING TABLE

CIRCUIT		PART	BL2100/2120	BL2110/2130
POWER INDICATION		R55	NOT INSTALLED	NOT INSTALLED
		Q5	NOT INSTALLED	NOT INSTALLED
CONFIGURATION IND.		JP3	1 – 2	2 – 3
OUTPUT PULL – UP/DOWN	OUTPUTS PULLED UP TO +K	R57	NOT INSTALLED	NOT INSTALLED
		R61	NOT INSTALLED	NOT INSTALLED
		R70	NOT INSTALLED	NOT INSTALLED
	OUTPUTS PULLED UP TO +5V	R56	ZERO ohm	ZERO ohm
		R60	ZERO ohm	ZERO ohm
		R69	ZERO ohm	ZERO ohm
	OUTPUTS PULLED DOWN TO GROUND	R54	NOT INSTALLED	NOT INSTALLED
		R59	NOT INSTALLED	NOT INSTALLED
		R71	NOT INSTALLED	NOT INSTALLED
INPUT/OUTPUT DRIVERS 16–23 (CFG. AS INPUT)		JP2	1 – 2	1 – 2
		PR13	RES PACK 100Kx4	RES PACK 100Kx4
		RP14	RES PACK 100Kx4	RES PACK 100Kx4
		Q14	NOT INSTALLED	NOT INSTALLED
		Q19	NOT INSTALLED	NOT INSTALLED
		Q28	NOT INSTALLED	NOT INSTALLED
		Q29	NOT INSTALLED	NOT INSTALLED
		Q30	NOT INSTALLED	NOT INSTALLED
		Q35	NOT INSTALLED	NOT INSTALLED
		Q40	NOT INSTALLED	NOT INSTALLED
DIGITAL OUTPUT 00 – 15 SETUP AS SCR & SINK		Q41	NOT INSTALLED	NOT INSTALLED
		R73	NOT INSTALLED	NOT INSTALLED
		R75	NOT INSTALLED	NOT INSTALLED
		R76	NOT INSTALLED	NOT INSTALLED
		R82	NOT INSTALLED	NOT INSTALLED
		R83	NOT INSTALLED	NOT INSTALLED
		R89	NOT INSTALLED	NOT INSTALLED
		R90	NOT INSTALLED	NOT INSTALLED
		R99	NOT INSTALLED	NOT INSTALLED
		R100	NOT INSTALLED	NOT INSTALLED
		R102	NOT INSTALLED	NOT INSTALLED
		R109	NOT INSTALLED	NOT INSTALLED
		R110	NOT INSTALLED	NOT INSTALLED
		R114	NOT INSTALLED	NOT INSTALLED
R120	NOT INSTALLED	NOT INSTALLED		
R122	NOT INSTALLED	NOT INSTALLED		
R123	NOT INSTALLED	NOT INSTALLED		
SCREW TER. CONNECTORS		J1	NOT INSTALLED	NOT INSTALLED
		J2	8 POS SCREW TER.	8 POS SCREW TER.
		J3	8 POS SCREW TER.	8 POS SCREW TER.
		J4	NOT INSTALLED	NOT INSTALLED
		J5	6 POS SCREW TER.	6 POS SCREW TER.
		J6	8 POS SCREW TER.	8 POS SCREW TER.
		J7	NOT INSTALLED	NOT INSTALLED
		J8	6 POS SCREW TER.	6 POS SCREW TER.
		J9	6 POS SCREW TER.	6 POS SCREW TER.
		J10	8 POS SCREW TER.	8 POS SCREW TER.
		J11	NOT INSTALLED	NOT INSTALLED
		J12	6 POS SCREW TER.	6 POS SCREW TER.
		J13	NOT INSTALLED	NOT INSTALLED
		J14	6 POS SCREW TER.	6 POS SCREW TER.
		J15	6 POS SCREW TER.	6 POS SCREW TER.
VOLTAGE REFERENCE	+1.707V	R38	14.0K 1½ RES	NOT INSTALLED
		C54	100 nF CAP	NOT INSTALLED
	+2.93V	R36	25.5K 1½ RES	NOT INSTALLED
		R37	10.2K 1½ RES	NOT INSTALLED
		C41	100 nF CAP	NOT INSTALLED

CIRCUIT	PART	BL2100/2120	BL2110/2130
ANALOG POWER (AVCC)	Q3	4401 NPN TRAN.	NOT INSTALLED
	Q4	4401 NPN TRAN.	NOT INSTALLED
	CR1	27 V ZENER	NOT INSTALLED
	R45	27K 5½ RES	NOT INSTALLED
	R48	27K 5½ RES	NOT INSTALLED
	R52	27K 5½ RES	NOT INSTALLED
	C50	10 uF CAP	NOT INSTALLED
	C65	100 nF CAP	NOT INSTALLED
	C57	10 uF CAP	NOT INSTALLED
ANALOG TO DIGITAL CONVERTOR	R2	1 MOHM 1½ RES	NOT INSTALLED
	R3	1 MOHM 1½ RES	NOT INSTALLED
	R4	1 MOHM 1½ RES	NOT INSTALLED
	R5	1 MOHM 1½ RES	NOT INSTALLED
	R6	1 MOHM 1½ RES	NOT INSTALLED
	R8	1 MOHM 1½ RES	NOT INSTALLED
	R9	1 MOHM 1½ RES	NOT INSTALLED
	R10	1 MOHM 1½ RES	NOT INSTALLED
	R11	1 MOHM 1½ RES	NOT INSTALLED
	R12	1 MOHM 1½ RES	NOT INSTALLED
	R13	1 MOHM 1½ RES	NOT INSTALLED
	R16	200K 1½ RES	NOT INSTALLED
	R20	200K 1½ RES	NOT INSTALLED
	R22	200K 1½ RES	NOT INSTALLED
	R23	200K 1½ RES	NOT INSTALLED
	R27	200K 1½ RES	NOT INSTALLED
	R28	200K 1½ RES	NOT INSTALLED
	R41	200K 1½ RES	NOT INSTALLED
	R42	200K 1½ RES	NOT INSTALLED
	R104	25K 5½ RES	NOT INSTALLED
	R112	25K 5½ RES	NOT INSTALLED
	R117	25K 5½ RES	NOT INSTALLED
	C1	1000 pF CAP	NOT INSTALLED
	C3	1000 pF CAP	NOT INSTALLED
	C4	1000 pF CAP	NOT INSTALLED
	C5	1000 pF CAP	NOT INSTALLED
	C6	1000 pF CAP	NOT INSTALLED
	C7	1000 pF CAP	NOT INSTALLED
	C8	1000 pF CAP	NOT INSTALLED
	C9	1000 pF CAP	NOT INSTALLED
	C10	1000 pF CAP	NOT INSTALLED
	C11	1000 pF CAP	NOT INSTALLED
	C12	1000 pF CAP	NOT INSTALLED
	C13	100 pF CAP	NOT INSTALLED
	C14	100 pF CAP	NOT INSTALLED
	C15	100 pF CAP	NOT INSTALLED
	C16	100 pF CAP	NOT INSTALLED
	C18	100 pF CAP	NOT INSTALLED
	C19	100 pF CAP	NOT INSTALLED
	C20	10 nF CAP	NOT INSTALLED
	C23	100 pF CAP	NOT INSTALLED
	C32	100 pF CAP	NOT INSTALLED
	C33	100 pF CAP	NOT INSTALLED
	C46	10 nF CAP	NOT INSTALLED
	C51	100 pF CAP	NOT INSTALLED
	C52	100 pF CAP	NOT INSTALLED
	C53	10 nF CAP	NOT INSTALLED
	U2	LMC660 OP AMP	NOT INSTALLED
	U5	TLC2543 A/D	NOT INSTALLED
	U7	LMC660 OP AMP	NOT INSTALLED

CIRCUIT	PART	BL2100/2120	BL2110/2130
DIGITAL TO ANALOG CONVERTOR	R24	255K 1½ RES	NOT INSTALLED
	R25	102K 1½ RES	NOT INSTALLED
	R26	255K 1½ RES	NOT INSTALLED
	R31	102K 1½ RES	NOT INSTALLED
	R32	86.6K 1½ RES	NOT INSTALLED
	R33	86.6K 1½ RES	NOT INSTALLED
	R34	86.6K 1½ RES	NOT INSTALLED
	R35	86.6K 1½ RES	NOT INSTALLED
	R39	255K 1½ RES	NOT INSTALLED
	R40	255K 1½ RES	NOT INSTALLED
	R46	102K 1½ RES	NOT INSTALLED
	R47	102K 1½ RES	NOT INSTALLED
	C30	100 pF CAP	NOT INSTALLED
	C31	100 pF CAP	NOT INSTALLED
	C48	100 pF CAP	NOT INSTALLED
	C49	100 pF CAP	NOT INSTALLED
	C50	10 nF CAP	NOT INSTALLED
	C62	10 nF CAP	NOT INSTALLED
	C67	10 nF CAP	NOT INSTALLED
ANALOG CONNECTORS	U6	LM324 OP AMP	NOT INSTALLED
	U9	TLV5618 D/A	NOT INSTALLED
	U10	TLV5618 D/A	NOT INSTALLED
	J2	8 POS SCREW TER.	NOT INSTALLED
	J3	8 POS SCREW TER.	NOT INSTALLED

POWER TABLE

REF DES	DEVICE	DEVICE VOLTAGE INFORMATION					FILTER CAP
		VCC	AVCC	+V	GND	AGND	
U1	LMC660			4		11	C17
U2	LMC660			4		11	C20
U3	232A	16			15		C22
U5	TLC2543			20		10	C46
U6	LM324		4			11	C50
U7	LMC660			4		11	C53
U8	SP483EN	8			5		C61
U9	TLV5618			8		5	C62
U10	TLV5618			8		5	C67
U11	74VHC245	20			10		C77
U12	74VHC245	20			10		C68
U13	74VHC574	20			10		C88
U14	74VHC245	20			10		C89
U15	74VHC139	16			8		C90
U16	74VHC574	20			10		C99
U17	74VHC574	20			10		C100
U18	74VHC245	20			10		C111
U19	74VHC02	14			7		C120