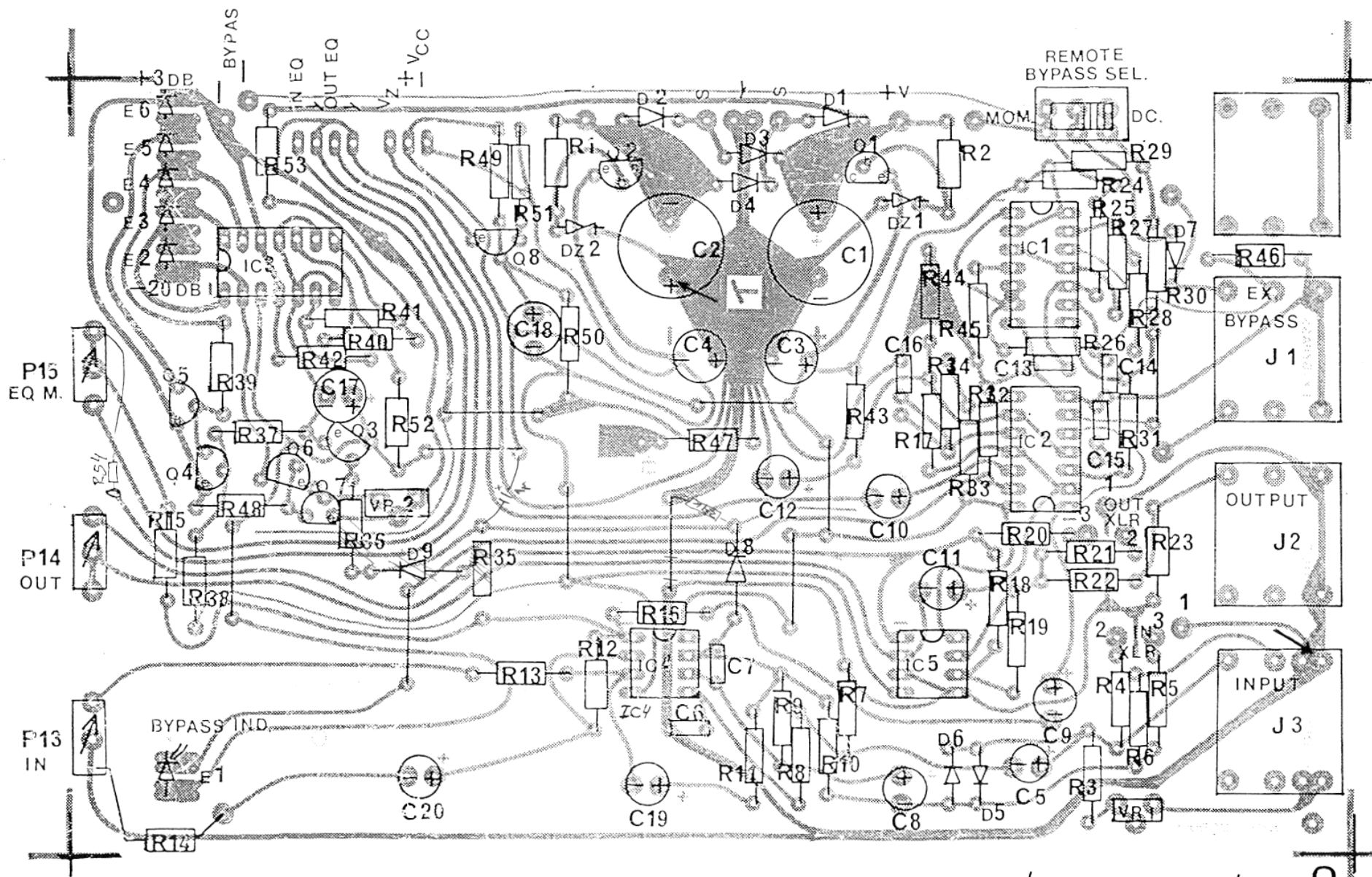


BOTTOM VIEW



- G1
- G2
- G3
- G4

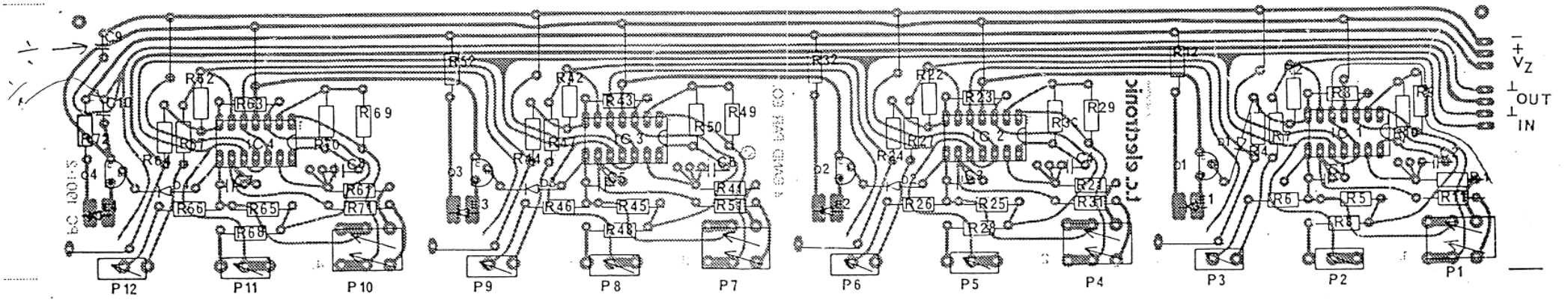
T.C.ELECTRONIC		
Title	SCHEMATIC FOR TC1140/TC1144 EQ-SECTION	
Size	Document Number	REV
B	1140EQ01.SCH	CN
Date:	March 16, 1989	Sheet 2 of 2



TYPE 1902 - IN/OUT MODUL 1140/2240 2

TYPE 1901-EQ MODUL 1140/2240

2



Part list for: 1140 I/O

Print version : PC1902-2

RefNo	Type	Component	RefNo	Type	Component
R1	RESISTOR	680E	C1	ELLYT	1000U/35
R2	RESISTOR	680E	C2	ELLYT	1000U/35
R3	RESISTOR	9K76 1%	C3	ELLYT	100U/25
R4	RESISTOR	10K0 1%	C4	ELLYT	100U/25
R5	RESISTOR	10K0 1%	C5	ELLYT	1U/25
R6	RESISTOR	2K2	C6	CER	68P
R7	RESISTOR	1M	C7	CER	68P
R8	RESISTOR	1K	C8	ELLYT	1U/63
R9	RESISTOR	1M	C9	ELLYT L	10U/35 LOW LEAKAGE
R10	RESISTOR	10K0 1%	C10	ELLYT L	10U/35 LOW LEAKAGE
R11	RESISTOR	6K8	C11	ELLYT L	10U/35 LOW LEAKAGE
R12	RESISTOR	6K8	C12	ELLYT	22U/16
R13	RESISTOR	560E	C13	CER	220P
R14	RESISTOR	560E	C14	CER	10N
R15	RESISTOR	2K2	C15	MKT	47N
R16	RESISTOR	15K	C16	MKT	47N
R17	RESISTOR	100K	C17	ELLYT	1U/25
R18	RESISTOR	10K	C18	ELLYT	10U/25
R19	RESISTOR	10K	C19	ELLYT	4U7/25
R20	RESISTOR	23E7 1%	C20	ELLYT	22U/16
R21	RESISTOR	23E7 1%	C21	CER	15P
R22	RESISTOR	47E	C22	CER	15P
R23	RESISTOR	10K	C30	TANTAL	1U
R24	RESISTOR	100K	IC1	CMOS	4007 UBP
R25	RESISTOR	1M	IC2	CMOS	4007 UBP
R26	RESISTOR	3M3	IC3	LINEAR	LM 339
R27	RESISTOR	100K	IC4	OP-AMP	NE 5532
R28	RESISTOR	3K3	IC5	OP-AMP	NE 5532
R29	RESISTOR	470K			
R30	RESISTOR	10K	D1	DIODE	1N4001
R31	RESISTOR	330K	D2	DIODE	1N4001
R32	RESISTOR	1K2	D3	DIODE	1N4001
R33	RESISTOR	470K	D4	DIODE	1N4001
R34	RESISTOR	330K	D5	DIODE	1N4148
R35	RESISTOR	47K	D6	DIODE	1N4148
R36	RESISTOR	10K	D7	DIODE	1N4148
R37	RESISTOR	560K	D8	DIODE	1N4148
R38	RESISTOR	1M	D9	DIODE	1N4148
R39	RESISTOR	22K	D10	DIODE	1N4148
R40	RESISTOR	33K	D11	DIODE	1N4148
R41	RESISTOR	47K	D12	DIODE	1N4148
R42	RESISTOR	22K	D13	DIODE	1N4148
R43	RESISTOR	100K	D20	DIODE	1N4148
R44	RESISTOR	100K			
R45	RESISTOR	470E	DZ1	ZENER	BZX79C15
R46	RESISTOR	47K	DZ2	ZENER	BZX79C15
R47	RESISTOR	4,00E+07			
R48	RESISTOR	100K	Q1	TRANS	BD 135
R49	RESISTOR	100K	Q2	TRANS	BD 136
R50	RESISTOR	33K	Q3	TRANS	BC 548B
R51	RESISTOR	470E	Q4	TRANS	BC 548B
R52	RESISTOR	100K	Q5	TRANS	BC 548B
R53	RESISTOR	470E	Q6	TRANS	BC 558B
R54	RESISTOR	680E	Q7	TRANS	BC 558B
R55	RESISTOR	56E	Q8	TRANS	BC 558B
R60	RESISTOR	24K			
RT1	TRIMMER	1K VERL	LD1	LED	2.5X5MM RED
			LD2	LED	2.5X5MM GR.
RV13	POTM P	22K LIN	LD3	LED	2.5X5MM GR.
RV14	POTM P	22K LOG	LD4	LED	2.5X5MM GR.
RV15	POTM P	22K LIN	LD5	LED	2.5X5MM YEL.
			LD6	LED	2.5X5MM RED
			T1	JACK	BBB-PCI TC7
			T2	JACK	BBB-PCI TC7
			T3	JACK	BBB-PCI TC7
			S1	SWITCH	2P-PR 2ST 11

Part list for : 1140 EQ

Print version : PC1901-2

RefNo	Type	Component	RefNo	Type	Component
R1	RESISTOR	820E	RV1	POTM P	100K.NLOG ST
R2	RESISTOR	10K0 1%	RV2	POTM P	22K.LOG
R3	RESISTOR	10K0 1%	RV3	POTM P	22K.LIN
R4	RESISTOR	10K0 1%	RV4	POTM P	100K.NLOG ST
R5	RESISTOR	10K0 1%	RV5	POTM P	22K.LOG
R6	RESISTOR	10K0 1%	RV6	POTM P	22K.LIN
R7	RESISTOR	680E	RV7	POTM P	100K.NLOG ST
R8	RESISTOR	220E	RV8	POTM P	22K.LOG
R9	RESISTOR	10K	RV9	POTM P	22K.LIN
R10	RESISTOR	10K	RV10	POTM P	100K.NLOG ST
R11	RESISTOR	820E	RV11	POTM P	22K LOG
R12	RESISTOR	47E	RV12	POTM P	22K LIN
R21	RESISTOR	820E	C1	MKT	10N
R22	RESISTOR	10K0 1%	C2	MKT	680N
R23	RESISTOR	10K0 1%	C3	MKT	4N7
R24	RESISTOR	10K0 1%	C4	MKT	330N
R25	RESISTOR	10K0 1%	C5	MKT	2N2
R26	RESISTOR	10K0 1%	C6	MKT	150N
R27	RESISTOR	680E	C7	CER	1N
R28	RESISTOR	220E	C8	MKT	68N
R29	RESISTOR	10K	IC1	OP-AMP	TL 074
R30	RESISTOR	10K	IC2	OP-AMP	TL 074
R31	RESISTOR	820E	IC3	OP-AMP	TL 074
R32	RESISTOR	47E	IC4	OP-AMP	TL 074
R41	RESISTOR	820E	D1	DIODE	1N4148
R42	RESISTOR	10K0 1%	D2	DIODE	1N4148
R43	RESISTOR	10K0 1%	D3	DIODE	1N4148
R44	RESISTOR	10K0 1%	D4	DIODE	1N4148
R45	RESISTOR	10K0 1%	Q1	TRANS	BC 548B
R46	RESISTOR	10K0 1%	Q2	TRANS	BC 548B
R47	RESISTOR	680E	Q3	TRANS	BC 548B
R48	RESISTOR	220E	Q4	TRANS	BC 548B
R49	RESISTOR	10K	LD1	LED	2.5X5MM RED
R50	RESISTOR	10K	LD2	LED	2.5X5MM RED
R51	RESISTOR	820E	LD3	LED	2.5X5MM RED
R52	RESISTOR	47E	LD4	LED	2.5X5MM RED
R61	RESISTOR	820E			
R62	RESISTOR	10K0 1%			
R63	RESISTOR	10K0 1%			
R64	RESISTOR	10K0 1%			
R65	RESISTOR	10K0 1%			
R66	RESISTOR	10K0 1%			
R67	RESISTOR	680E			
R68	RESISTOR	220E			
R69	RESISTOR	10K			
R70	RESISTOR	10K			
R71	RESISTOR	820E			
R72	RESISTOR	47E			

Typical performance data for TC1140/2240

Settings:

Inputgain: 0dB
Output approx.: 4,2 rel.
EQ match: 0dB
All Function pots: 0dB

Generator: +10dBu (50ohm balanced) connected to XLR input of device.

	THD+N / %				Noise unweighted / dBu 20 - 20kHz
	@20Hz	@200Hz	@2kHz	@20kHz	
Bypassed	<0,05	<0,02	<0,02	<0,01	<-97
EQ on	<0,15	<0,05	<0,05	<0,02	<-87