

TECHNICAL DATA FOR DIGITAL MULTIMETER

MODEL: M-3850 & M-3830

# MATERIAL PART LIST

for M-3830

ITEM NO.	NO.	N A M E	DESCRIPTION	CONTENTS	REVISED	REMARKS
1	1	C. P. U.	92DM → 92DM(820-54)			REV
2	2	"	92DS → 92DS(820-56)			REV
3	12	P. C. B.	155.3 × 73.5 → 155.3 × 73.5 × 1.6t			REV
4	13	"	53.5 × 23.5 → 53.5 × 23.5 × 1.6t			REV
5	14	"	15.7 × 13.0 → 15.7 × 13.0 × 1.6t			REV
6	15	"	70.1 × 36.6 → 70.1 × 36.6 × 1.6t			REV
7	48	TRANSISTOR	C945(3875) 4ea → C945(KTC3875SY) 1ea			DEC
8	49	"	C3121 → KTC3121RTK			REV
9	50	"	A733/BF909/BF910(1504) → A733(KTA1504S)			REV
10	54	CERAMIC CAP	8ea C4~ C10,35 → 9ea C4 ~C10,34,35			INC
11	58	"	473 → 683			REV
12	83	JACK TERMINAL	M 3850 → 16.0 × 5 φ			REV
13	94	M.F.R. ¼W D	5.2 KΩ → 5.19KΩ			REV
14	99	FUSE CHIP	P.C.B. TYPE → 1A3399-10			REV
15	100	"	P.C.B. TYPE → 1A1119-10			REV
16	101	M.N.W.R. 1W	4.5 / 1W → 4.5 Ω			REV
17	102	" 1W	0.5 / 178W → 0.5 Ω			REV
18	103	" 10W	0.005/ 10W → 0.005 Ω			REV

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※ 생산 1과 문안재 기사의 요청에 의하여 수정함.

NO : 3rd Rev.

MODEL : M-3830

DATE : Dec. 21, 1993.

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CHARGE	CHECKED	APPROVED
		

# MATERIAL PART LIST

for M-3830

ITEM NO.	NO.	N A M E	DESCRIPTION	CONTENTS	REVISED	REMARKS
19	118	KNOB	M 3830 → 45 φ			REV
20	122	JACK TERMINAL MOLD	1ea → 3ea			INC
21	123	JACK TERMINAL MOLD	BLACK 1ea			INS
22	128	KEY RUBBER	M 3270 → A			REV
23	129	"	M 3850 → B			REV
24	130	RUBBER FOOT	M 36B → LARGE			REV
25	131	"	M 3850 → SMALL			REV
26	133	SHIELD PAPER	M 3850 → 250 V / 800 mA			REV
27	140	INTER CONNECTOR A	69.5 × 24.0 × 1.7t → 69.5 × 23.7 × 1.8t			REV
28	141	INTER CONNECTOR B	69.5 × 18.8 × 1.7t → 69.5 × 18.8 × 1.8t			REV
29	147	SCREW	M2.6 × 7.0 (NICKEL) 3ea			DEL
30	148	"	M2.6 × 3.0 2ea			DEL
31	153	RS232C CABLE	6 PIN → 6 PIN (MT/RS232C)			REV
32	159	AIR BAG	1ea			INS
33	160	SPONGE	1ea			INS
34	161	CONTACT	4ea			INS
35	162	TEST LEAD	RED / BLACK 1pair			INS
36	163	BATTERY	9 V (FC-1) 1ea			INS
37	164	CARRYING CASE	M 3830 1ea			INS
38	165	GIFT BOX	M 3830 1ea			INS
39	166	MANUAL	M 3830 1ea			INS
40	167	PROGRAMED FLOOPY	5.25 INCH (2D) 1ea			INS
41	168	"	3.5 INCH (2HD) 1ea			INS
42	169	SOLDER	1.2 φ × 60 % 20g			INS
43	170	PUSH KNOB	RED 1ea			INS

MATERIAL PART LIST

Model : M 3830

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NO	N A M E	RATINGS & DIMENSION	UNIT	Q'TY	PART NO.	자재코드	REMARKS
1	C. P. U.	92DM(820-54)	ea	1	IC1		S.M.D. TYPE (80 PIN)
2	C. P. U.	92DS(820-56)	ea	1	IC2		S.M.D. TYPE (80 PIN)
3	L. S. I.	MAX134 CMH	ea	1	IC3		S.M.D. TYPE (44 PIN)
4	I. C.	CD4011	ea	1	IC4		S.M.D. TYPE (14 PIN)
5	I. C.	ICM7555	ea	1	IC5		S.M.D. TYPE (8 PIN)
6	I. C.	TL062	ea	2	IC6,7		S.M.D. TYPE (8 PIN)
7	I. C.	CD4027	ea	1	IC8		S.M.D. TYPE (16 PIN)
8	I. C.	CD4066	ea	1	IC11		S.M.D. TYPE (14 PIN)
9	I. C.	PC817	ea	2	IC9,10		D.I.P. TYPE (4 PIN)
10	I. C.	OP07	ea	1	IC13		D.I.P. TYPE (8 PIN)
11	HYBRID I.C.	HD-08	ea	1	IC12		
12	P. C. B.	155.3 × 73.5×1.6t	ea	1			MAIN
13	P. C. B.	53.5 × 23.5×1.6t	ea	1			SUB
14	P. C. B.	15.7 × 13.0×1.6t	ea	1			AC ZERO 용
15	P. C. B.	70.1 × 36.6×1.6t	ea	1			BACK LIGHTING 용
16	CRYSTAL	32.768 KHz	ea	1	XT1		SMALL TYPE
17	CRYSTAL	38.400 KHz	ea	2	XT2,3		
18	CRYSTAL	4.1856 MHz	ea	1	XT4		
19	ARRY RESISTER	6 PIN 100 K	ea	1	RA1		BECKMAN
20	ARRY RESISTER	9 PIN 100 K	ea	1	RA2		BECKMAN
21	C.F.R. 1/4W D	1.8 MΩ	ea	1	R63		CHIP TYPE
22	C.F.R. 1/4W J	100 KΩ	ea	14	R1 ~ R14		CHIP TYPE
23	C.F.R. 1/4W J	330 KΩ	ea	2	R16,17		CHIP TYPE
24	C.F.R. 1/4W J	1.3 KΩ	ea	1	R64		CHIP TYPE
25	C.F.R. 1/4W J	750 Ω	ea	2	R18,19		CHIP OTYPE

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NO	NAME	RATINGS & DIMENSION	UNIT	Q'TY	PART NO.	자재코드	REMARKS
26	C.F.R. 1/4W J	3.3 KΩ	ea	2	R20,21		CHIP TYPE
27	C.F.R. 1/4W J	7.5 KΩ	ea	1	R22		CHIP TYPE
28	C.F.R. 1/4W J	10 KΩ	ea	5	R28,29,30,31,71		CHIP TYPE
29	C.F.R. 1/4W J	5.6 KΩ	ea	1	R32		CHIP TYPE
30	C.F.R. 1/4W J	51 KΩ	ea	1	R33		CHIP TYPE
31	C.F.R. 1/4W J	390 KΩ	ea	1	R34		CHIP TYPE
32	C.F.R. 1/4W J	2.2 MΩ	ea	3	R35,36,37		CHIP TYPE
33	C.F.R. 1/4W J	130 KΩ	ea	1	R39		CHIP TYPE
34	C.F.R. 1/4W J	200 KΩ	ea	2	R40,41		CHIP TYPE
35	C.F.R. 1/4W J	150 Ω	ea	4	R46,47,48,49		CHIP TYPE (BACK LIGHT)
36	C.F.R. 1/4W J	1 MΩ	ea	4	R43,44,45,72		CHIP TYPE
37	C.F.R. 1/4W J	910 KΩ	ea	1	R42		CHIP TYPE
38	C.F.R. 1/4W F	3 KΩ	ea	1	R26		CHIP TYPE
39	C.F.R. 1/4W F	3.6 KΩ	ea	1	R27		CHIP TYPE
40	C.F.R. 1/4W F	7.5 KΩ	ea	1	R25		CHIP TYPE
41	POSISTOR	1.5 KΩ	ea	2	PTC1,2		
42	SW. DIODE	KDS 184	ea	4	D1 ~ D4		B3 (S.M.D. TYPE)
43	SW. DIODE	KDS 193/196	ea	10	D5 ~ D14		F/G3 (S.M.D. TYPE)
44	SW. DIODE	KDS 226	ea	2	D15,16		C3 (S.M.D. TYPE)
45	REC. DIODE	IN4007	ea	9	D17 ~ D24,D26		
46	REF. DIODE	1.2 V (BJ04)	ea	1	D25		
47	TRANSISTOR	MPSA42 (MMBTA42)	ea	2	Q1,2		S.M.D. TYPE (AAX)
48	TRANSISTOR	C945 (KTC3875SY)	ea	1	Q3		S.M.D. TYPE (ALY)
49	TRANSISTOR	KTC3121RTK	ea	1	Q4		S.M.D. TYPE (VA)
50	TRANSISTOR	A733(KTA1504S)	ea	2	Q5,6		S.M.D. TYPE (ASY)

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NO	N A M E	RATINGS & DIMENSION	UNIT	Q'TY	PART NO.	자재코드	REMARKS
51	F. E. T.	K192A	ea	1	Q7		
52	CERAMIC CAP	221	ea	2	C1,2		CHIP TYPE
53	CERAMIC CAP	10 p	ea	1	C3		CHIP TYPE
54	CERAMIC CAP	104	ea	9	C4~C10,34,35		CHIP TYPE
55	CERAMIC CAP	103	ea	2	C11,12		CHIP TYPE
56	CERAMIC CAP	33 p	ea	2	C13,14		CHIP TYPE
57	CERAMIC CAP	22 p	ea	4	C15 ~ C18		CHIP TYPE
58	CERAMIC CAP	683	ea	1	C33		CHIP TYPE
59	CERAMIC CAP	100 p	ea	1	C36		CHIP TYPE
60	CERAMIC CAP	221	ea	1	C37		
61	T. C.	4.7 uF	ea	1	C19		CHIP TYPE
62	T. C.	0.33 uF	ea	1	C28		
63	SURGE CAP	102 / 1KV	ea	1	C20		
64	M.P.F.C.	223 ( 0.022 )	ea	2	C21,22		SMALL BOX TYPE
65	M.P.F.C.	472 ( 0.0047 )	ea	1	C23		SMALL BOX TYPE
66	M.P.F.C.	104	ea	1	C24		SMALL BOX TYPE
67	M.P.F.C.	224	ea	1	C25		SMALL BOX TYPE
68	E. C.	0.33 uF	ea	2	C26,27		
69	E. C.	10 uF	ea	1	C38		
70	E. C.	1.0 uF	ea	1	C29		
71	E. C.	22 uF	ea	1	C30		
72	E. C.	47 uF	ea	2	C31,32		
73	BUZZER	PIEZO BUZZER (20 φ)	ea	1	BZ1		
74	M.G.V.R.	500 Ω	ea	1	VR2		REFERENCE 조정용
75	M.G.V.R.	100 KΩ	ea	1	VR4		DC VOLT 조정용

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NO	N A M E	RATINGS & DIMENSION	UNIT	Q'TY	PART NO.	자재코드	REMARKS
76	M.G.V.R.	200 Ω	ea	1	VR1		AC GAIN 조정용
77	M.D.V.R.	20 KΩ	ea	1	VR3		AC ZERO 조정용
78	M.D.V.R.	500 Ω	ea	1	VR5		CAPACITANCE 조정용 (HI)
79	M.D.V.R.	300 KΩ	ea	1	VR6		CAPACITANCE 조정용 (LO)
80	PUSH SWITCH	2C2P SELF LOCK	ea	1	SW1		DLT-2201
81	T.R. SOCKET	8 PIN ROUND	ea	1			
82	HOUSING	RS-232C MOLEX	ea	1			6 PIN
83	JACK TERMINAL	16.0 × 5 φ	ea	4			
84	M.F.R. 1/2W D	10 MΩ	ea	1	R50		
85	M.F.R. 1/2W D	9.95 MΩ	ea	1	R51		
86	M.F.R. 1/4W D	1.1111 MΩ	ea	1	R52		
87	M.F.R. 1/4W D	101.01 KΩ	ea	1	R53		
88	M.F.R. 1/4W D	10.01 KΩ	ea	1	R54		
89	M.F.R. 1/4W D	1.000 KΩ	ea	1	R55		
90	M.F.R. 1/4W D	1.2 MΩ	ea	1	R56		
91	M.F.R. 1/4W D	301 KΩ	ea	2	R57,58		
92	M.F.R. 1/4W D	1 MΩ	ea	1	R59		
93	M.F.R. 1/4W D	5.62 KΩ	ea	2	R60,61		
94	M.F.R. 1/4W D	5.19 KΩ	ea	1	R62		
95	M.F.R. 1/4W F	75 Ω	ea	1	R65		
96	C.F.R. 1/4W J	330 KΩ	ea	1	R15		
97	FUSE	800 mA / 250 V	ea	2	F1		
98	FUSE	20 A / 250 V	ea	1	F2		
99	FUSE CLIP	1A3399-10	ea	2			2 A
100	FUSE CLIP	1A1119-10	ea	2			20 A

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101	M.N.W.R. 1W	4.5 Ω	ea	1	R66		CURRENT RESISTOR
102	M.N.W.R. 1W	0.5 Ω	ea	1	R67		"
103	M.N.P.R. 10W	0.005 Ω	ea	1	R68		"
104	DIODE (L.E.D)	251GC	ea	4	D26 ~ D29		BACK LIGHTING
105	GROUND POLE	φ 6 × 4.0	ea	1			
106	C. SOCKET PIN	M 3850	ea	2			
107	I.C. SOCKET	9 PIN	ea	1			
108	I.C. SOCKET	7 PIN	ea	1			
109	I.C. SOCKET	3 PIN	ea	1			
110	CONNECTOR PIN	9 PIN	ea	1			9 mm
111	CONNECTOR PIN	7 PIN	ea	1			9 mm
112	CONNECTOR PIN	3 PIN	ea	1			9 mm
113	CONNECTOR PIN	5 PIN	ea	1			10 mm
114	BATTERY SNAP	180 mm	ea	1			
115	L. C. D.	LS-0912D	ea	1			
116	FRONT CASE	84 × 187 × 24t	ea	1			
117	BACK CASE	84 × 187 × 19t	ea	1			
118	KNOB	45 φ	ea	1			
119	POWER S/W KNOB	M 3270	ea	1			RED
120	BATTERY COVER		ea	1			
121	STAND	M 3850	ea	1			
122	JACK TERMINAL MOLD	RED	ea	3			
123	JACK TERMINAL MOLD	BLACK	ea	1			
124	BACK LIGHTING BOARD	66.1 × 33.8 × 2t	ea	1			



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NO	N A M E	RATINGS & DIMENSION	UNIT	Q'TY	PART NO.	자재코드	REMARKS
125	REFLECTIVE BOARD	70.2 x 37.6 x 3.2t	ea	1			
126	S/W RUBBER GUIDE	54.5 x 12.6 x 1.5t	ea	1			
127	SELECTOR	M 3270	ea	1			
128	KEY RUBBER	A	ea	1			
129	KEY RUBBER	B	ea	1			
130	RUBBER FOOT	LARGE	ea	1			BACK
131	RUBBER FOOT	SMALL	ea	1			BATTERY COVER
132	GASKET	M 3830	ea	1			
133	SHIELD PAPER	250 V / 800 mA	ea	1			
134	FRONT PANEL(S/W)	69.5 x 14.7 x 0.4t	ea	1			
135	PCB SUPPCRT	φ 5.0 x 8.0	ea	1			
136	E. RING	φ 5	ea	1			
137	BALL	φ 4.0 ( φ 3.96 )	ea	2			
138	COIL SPRING A	외경 3.85 자유장 7.5	ea	1	6 TURN		선지름 : 0.5 φ
139	COIL SPRING B	외경 3.85 자유장 6.0	ea	1	5 TURN		선지름 : 0.5 φ
140	INTER CONNECTOR A	69.5 x 23.7 x 1.8t	ea	1			
141	INTER CONNECTOR B	69.5 x 18.8 x 1.8t	ea	1			
142	SCREW BOLT	φ 3.0 x 21.0	ea	4			FRONT CASE
143	SCREW BOLT	φ 2.6 x 10.5	ea	1			BATTERY COVER
144	SCREW BOLT	φ 3 x 4.0	ea	5			LCD BASE / 상·하 조립
145	SCREW BOLT	φ 2 x 5.0	ea	3			S/W GUIDE
146	SCREW BOLT	φ 2.6 x 4	ea	1			SHIELD PAPER 용
147	SUPPORT NUT	3.0 φ	ea	1			
148	SHIELD WIRE	40 mm	ea	1			
149	LEAD WIRE	0.12 x 7 십 50 mm	ea	1			BLACK

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NO	N A M E	RATINGS & DIMENSION	UNIT	Q'TY	PART NO.	자재코드	REMARKS
150	LEAD WIRE	0.12 x 7 침 80 mm	pair	1			RED / BLACK
151	LCD BASE	GP-GLASS	ea	1			
152	WINDOW	M 3850	ea	1			P.C.
153	RS232C PLUG	6 PIN (MT/RS232C)	ea	1			
154	SELECTOR SHAFT	M 3270	ea	1			
155	FRONT CASE INSERT A	φ 5.0 x 6.4	ea	2			
156	FRONT CASE INSERT B	φ 5.0 x 10.4	ea	2			
157	BACK CASE INSERT	φ 4.0 x 5	ea	1			
158	LCD BASE INSERT	φ 5.0 x 10.0	ea	4			
159	AIR BAG		ea	1			
160	SPONGE	16.0 x 50.0 x 10.0t	ea	1			
161	CONTACTOR		ea	4			
162	TEST LEAD	RED/BLACK	pair	1			
163	BATTERY	9 V (FC-1)	ea	1			
164	CARRYING CASE	M3830	ea	1			
165	GIFT BOX	M3830	ea	1			
166	MANUAL	M3830	ea	1			
167	PROGRAMED FLOPPY DISK	5.25 INCH (2D)	ea	1			* OPTION
168	~	3.5 INCH (2HD)	ea	1			* OPTION
169	SOLDER	1.2 φ x 60 %	g	20			

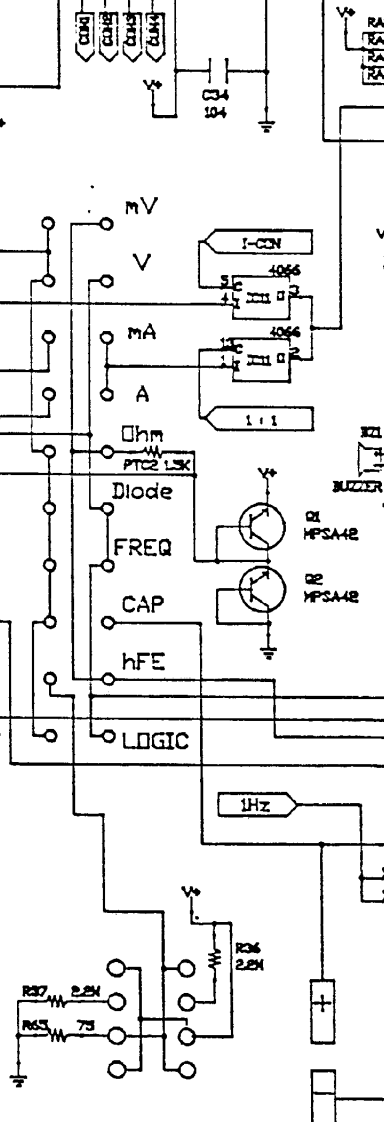
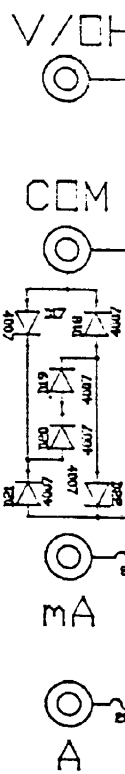
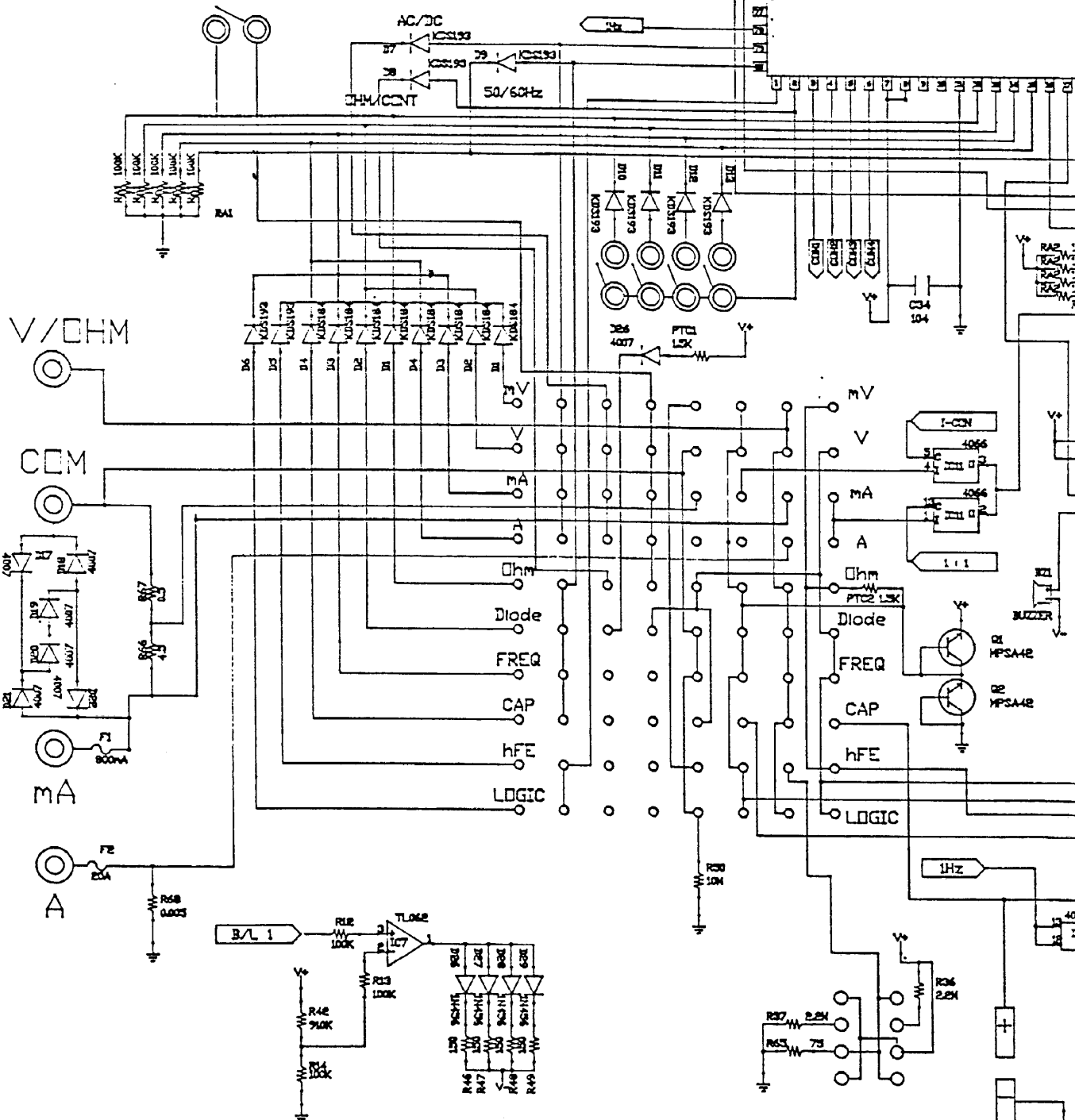
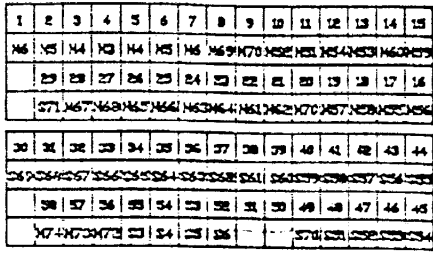
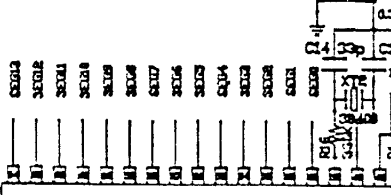
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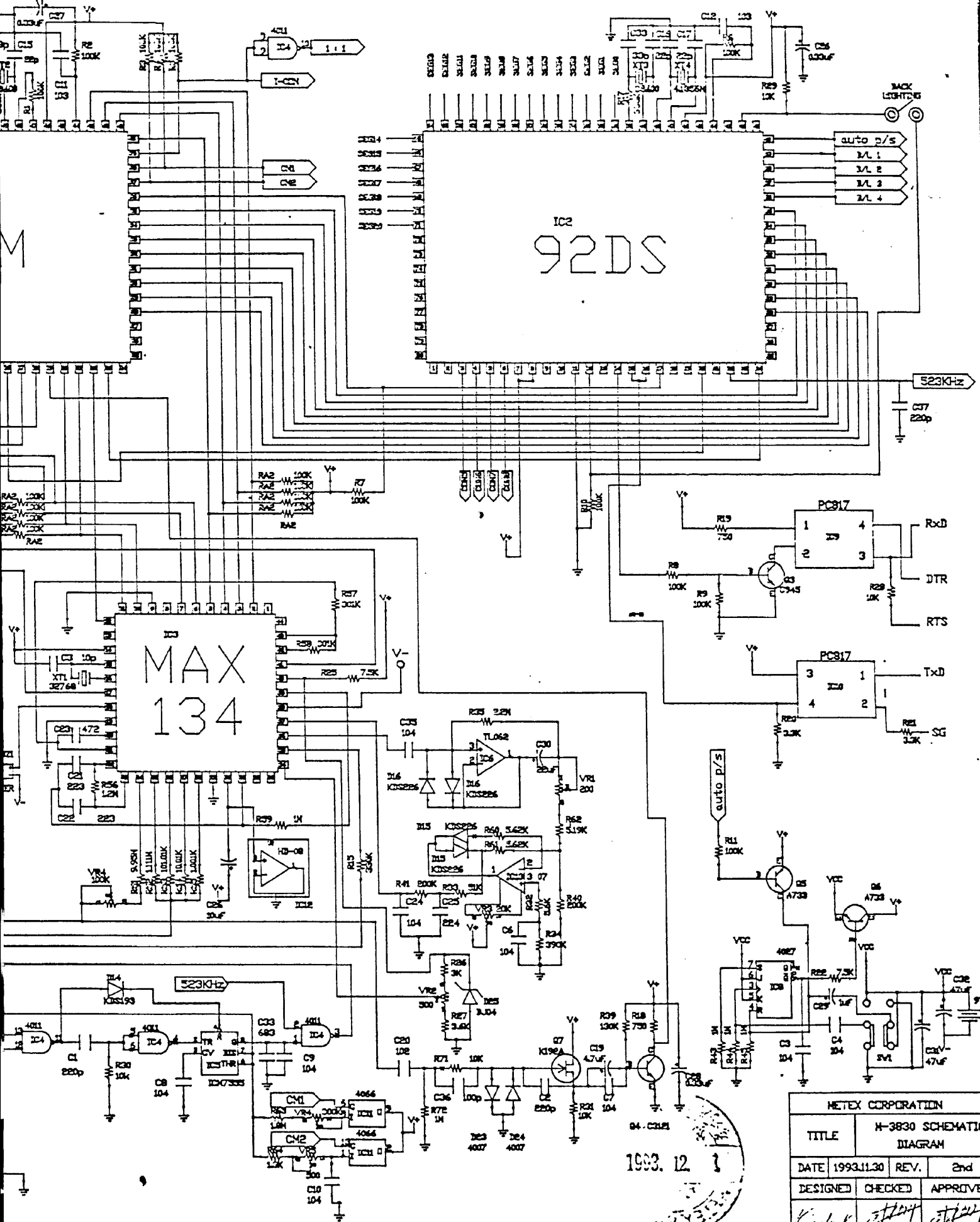
STEP	CONTROL SETTING	CONNECTION & INPUT	ADJUST	ADJUST FOR
1	Set the ON/OFF Switch ON.			
Adjustment of DC mill-Voltage Measurement Function.				
2	Function Range Switch: DC 400.0 mV	1) Connect DC mill-Voltage Calibrator. 2) Apply DC 390.0 mV to Input Terminal.	VR3(500 ohm)	Display reading within specification. Adjust VR3 so the display reads "390.0 mV".
Adjustment of AC mill-Voltage Measurement Function.				
3	Function Range Switch: AC 400.0 mV In use with DC/AC Switch	1) Connect AC mill-Voltage Calibrator. 2) Apply AC "000.0 mV" ( 50Hz ) to Input Terminal. 3) Apply AC "390.0 mV" ( 50Hz ) to Input Terminal.	VR4(20 Kohm)  VR2(200 ohm)	Display reading within specification. Adjust VR4 so the display reads "000.0 mV".  Adjust VR2 so the display reads "390.0 mV".
Adjustment of DC Voltage Measurement Function.				
4	Function Range Switch: DC Voltage	1) Connect DC Voltage Calibrator. 2) Apply DC "3.900 V" to Input Terminal. 3) Apply DC "39.00 V" to Input Terminal. 4) Apply DC "390.0 V" to Input Terminal. 5) Apply DC "990 V" to Input Terminal.	VR5(100 Kohm)	Display reading within specification. Adjust VR5, R71 so the display reads "3.900 V". Adjust R72 so the display reads "39.00 V". Adjust R73 so the display reads "390.0 V". Adjust R74 so the display reads " 990 V".
Adjustment of AC Voltage Measurement Function.				
5	Function Range Switch: AC Voltage In use with DC/AC Switch	1) Connect AC Voltage Calibrator. 2) Apply AC "0.000 V" (50Hz) to Input Terminal 2) Apply AC "3.900 V" to (50Hz) to Input Terminal 3) Apply AC "39.00 V" to (50Hz) to Input Terminal 4) Apply AC "390.0 V" to (50Hz) to Input Terminal 5) Apply AC " 700 V" to (50Hz) to Input Terminal	VR4(20 Kohm)  VR5(100 Kohm )	Display reading within specification. Adjust VR4 so the display reads "0.000 V". Adjust VR5, R71 so the display reads "3.900 V". Adjust R72 so the display reads "39.00 V". Adjust R73 so the display reads "390.0 V". Adjust R74 so the display reads " 700 V".
Adjustment of DC 400 mA Measurement Function.				
6	Function Range Switch: DC 400 mA	1) Connect DC Current Calibrator to Input(mA), Input (COM) Terminal. 2) Apply "20.00 mA" to Input Terminal. 3) Apply "200.0 mA" to Input Terminal.		Display reading within specification.  Adjust R87 so the display reads "20.00 mA". Adjust R88 so the display reads "200.0 mA".
Adjustment of AC 400 mA Measurement Function.				
7	Function Range Switch: AC 400 mA In use with DC/AC Switch	1) Connect AC Current Calibrator to Input(mA), Input (COM) Terminal. 2) Apply AC "0.000 V" (50Hz) to Input Terminal 2) Apply "20.00 mA" to Input Terminal. 3) Apply "200.0 mA" to Input Terminal.	VR4(20 Kohm)	Display reading within specification.  Adjust VR4 so the display reads "00.00 mA". Adjust R87 so the display reads "20.00 mA". Adjust R88 so the display reads "200.0 mA".

STEP	CONTROL SETTING	CONNECTION & INPUT	ADJUST	ADJUST FOR
8	Adjustment of DC 20A Measurement Function			
	Function Range Switch: DC 20A	1) Connect DC Current Calibrator to Input(20A) and Input(COM) Terminal. 2) Apply DC "1.00 A" to Input Terminal.		Display reading within Specification. Adjust R88 so the display reads " 1.00 A".
9	Adjustment of AC 20A Measurement Function			
	Function Range Switch: AC 20A In use with DC/AC Switch	1) Connect DC Current Calibrator to Input(20A) and Input(COM) Terminal. 2) Apply AC "00.00 A"(50Hz) to Input Terminal 3) Apply AC "1.00 A"(50Hz) to Input Terminal.	VR4(20 Kohm)	Display reading within Specification. Adjust VR4 so the display reads "00.00 A". Adjust R88 so the display reads " 1.00 A".
10	Adjustment of Resistance Measurement Function			
	Function Range Switch: Resistance	1) Insert the standard Resistor to Input Terminal. 2) Insert "20.00 Mohm " Resistor to Input Terminal. 3) Insert "2.000 Mohm " Resistor to Input Terminal. 4) Insert "200.0 Kohm " Resistor to Input Terminal. 5) Insert "20.00 Kohm " Resistor to Input Terminal. 6) Insert "2.000 Kohm " , Resistor to Input Terminal. 7) Insert "200.0 ohm " Resistor to Input Terminal.		Display reading within specification. Adjust VR5, R70 so the display reads "20.00 Mohm". Adjust VR5, R70 so the display reads "2.000 Mohm". Adjust R71 so the display reads "200.0 Kohm". Adjust R72 so the display reads "20.00 Kohm". Adjust R73 so the display reads "2.000 Kohm". Adjust R74 so the display reads "200.0 ohm".
11	Adjustment of Capacitance Measurement Function			
	Function Range Switch: Capacitance	1) Insert the standard Capacitor into Socket on the left side : 2) Insert the Capacitor. ( 1pF - 400.0 nF ) 3) Insert the Capacitor. ( 1nF - 400.0 uF )	VR6(500 Kohm) VR7(2 Kohm)	Display reading within specification. Adjust VR6 so the display value within specification. Adjust VR7 so the display value within specification.
12	Adjustment of Temperature Measurement Function			
	Function Range Switch: Temperature	1) Connect Temperature Calibrator to Temperature socket on the left side. 2) Apply "100 C" to Temperature socket. 3) Apply "1200 C" to Temperature socket.	VR1(5 Kohm)	Display reading within specification. Adjust VR1 so the display reads "100 C". Adjust R81,R82 so the display reading within specification.
13	Adjustment of Room Temperature Measurement Function			
	Function Range Switch: Room Temperature	See the display readings is correct.	VR8(5 Kohm)	Adjust VR8 so the display reading is correct.

REMARKS :	TITLE						M-3850 CALIBRATION PROCEDURE					
	DRAWN	DESIGNED	CHECKED	APPROVED	DATE	1993.5.8						
					DWG. NO							
	METEX INSTRUMENTS				MODEL	M-3850 & M-3830						

DM92

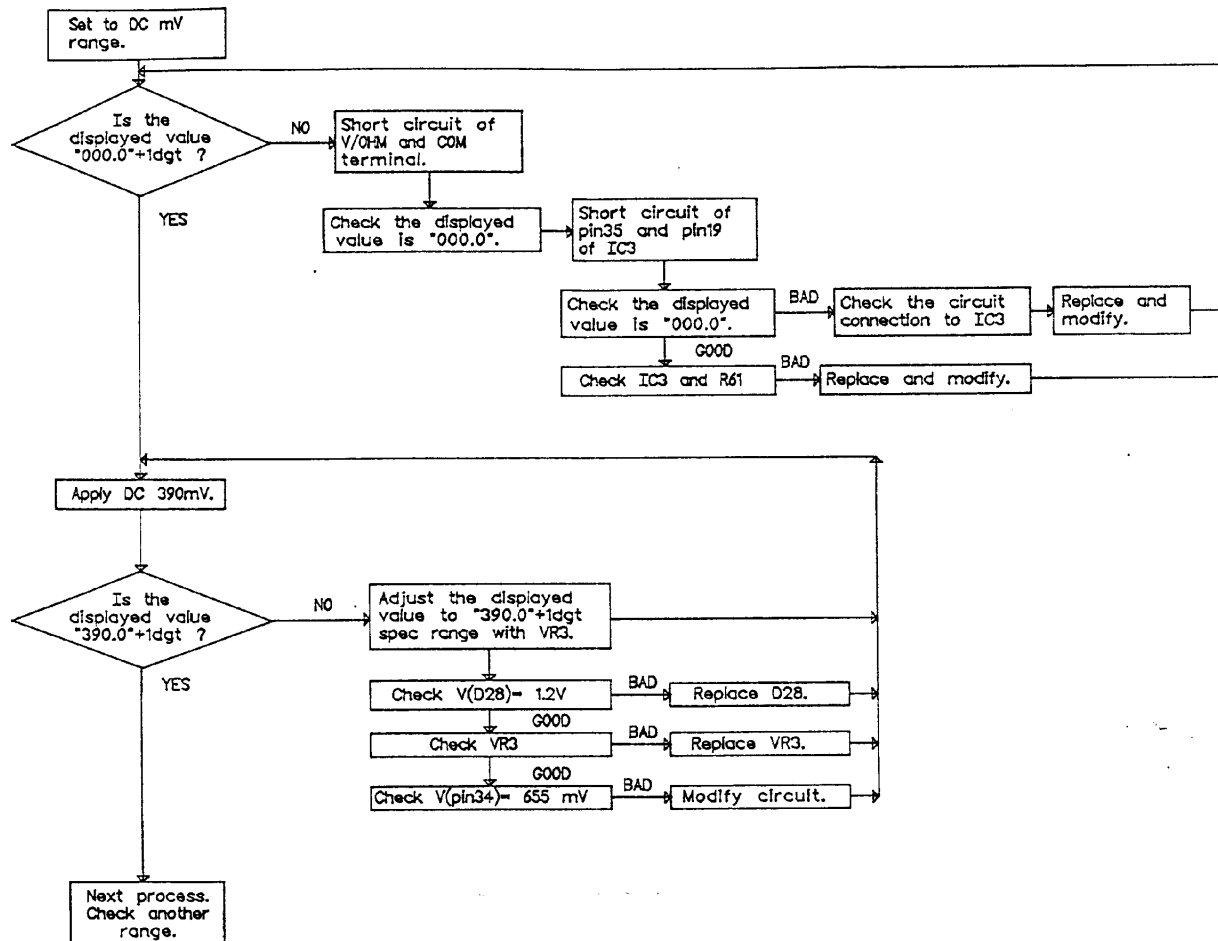




1993. 12

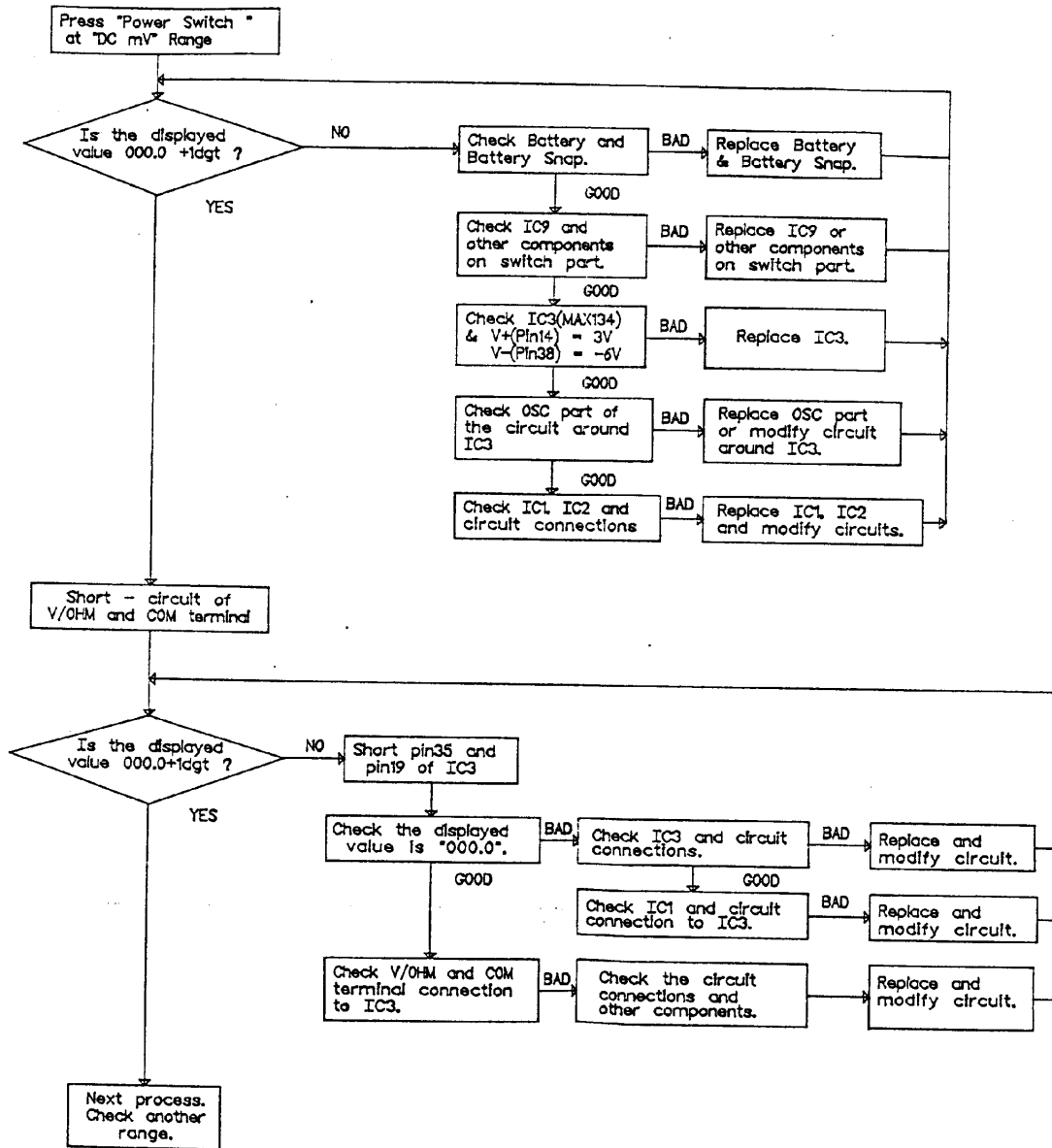
METEX CORPORATION			
TITLE	M-3830 SCHEMATIC DIAGRAM		
DATE	1993.11.30	REV.	2nd
DESIGNED	CHECKED	APPROVED	

DC 400 mV RANGE



REMARKS :	TITLE DC mV RANGE TROUBLE SHOOTING				
	DRAWN	DESIGNED	CHECKED	APPROVED	DATE 1993.5.6
					DWG. NO 2
	METEX INSTRUMENTS				MODEL M-3850 & M-3830

POWER ON

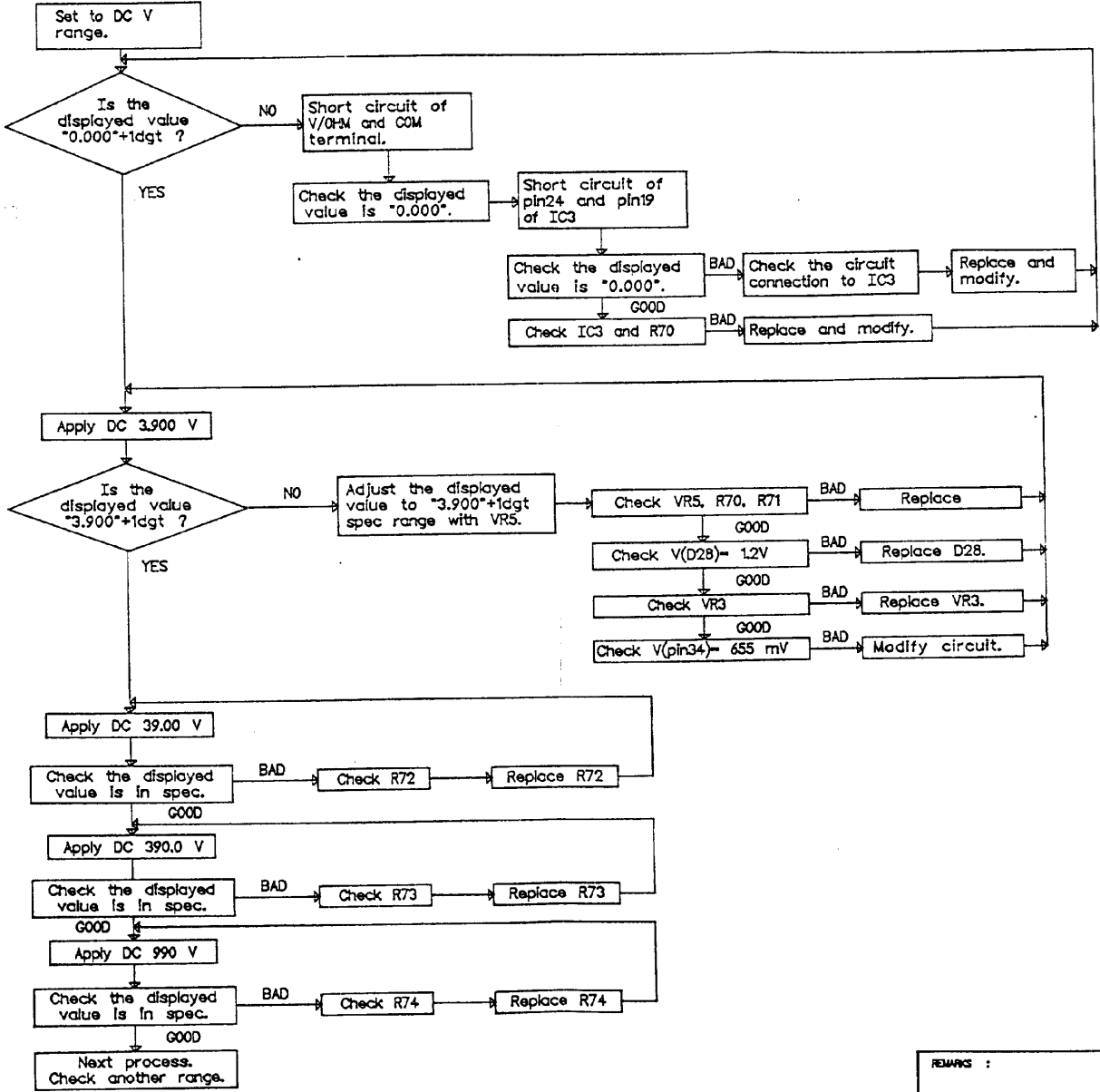


REMARKS :

POWER TROUBLE SHOOTING					
TITLE	DESIGNED	CHECKED	APPROVED	DATE	
				1993.5.	
				DRAWN	1
METEX INSTRUMENTS			MODEL	M-3850 & M-3830	



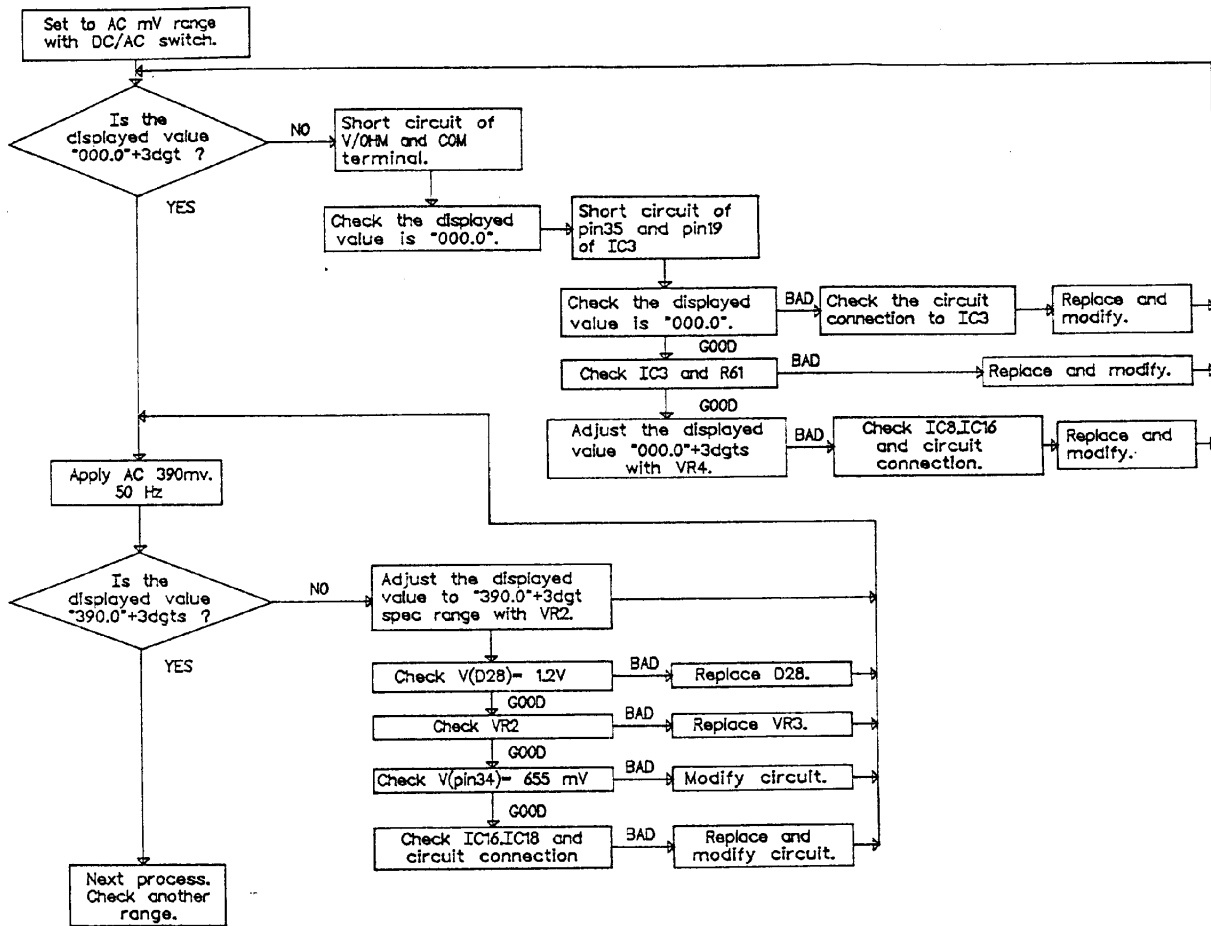
DC V RANGE



REMARKS :

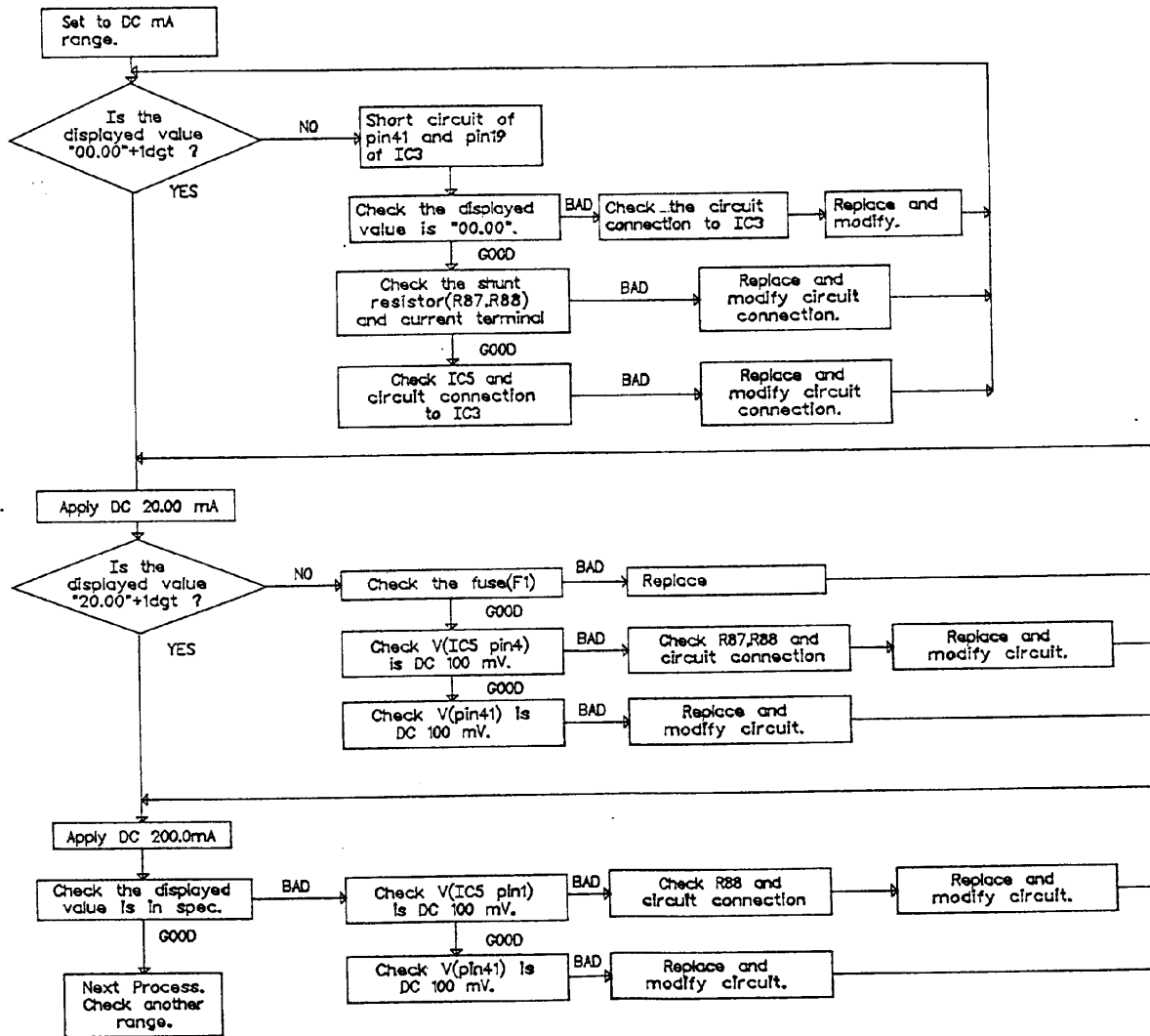
DC V RANGE TROUBLE SHOOTING				
TITLE	DESIGNED	CHECKED	APPROVED	DATE
				1993.5.6
				DRAWN 4
METEX INSTRUMENTS			MODEL	M-3850 &

AC 400 mV RANGE



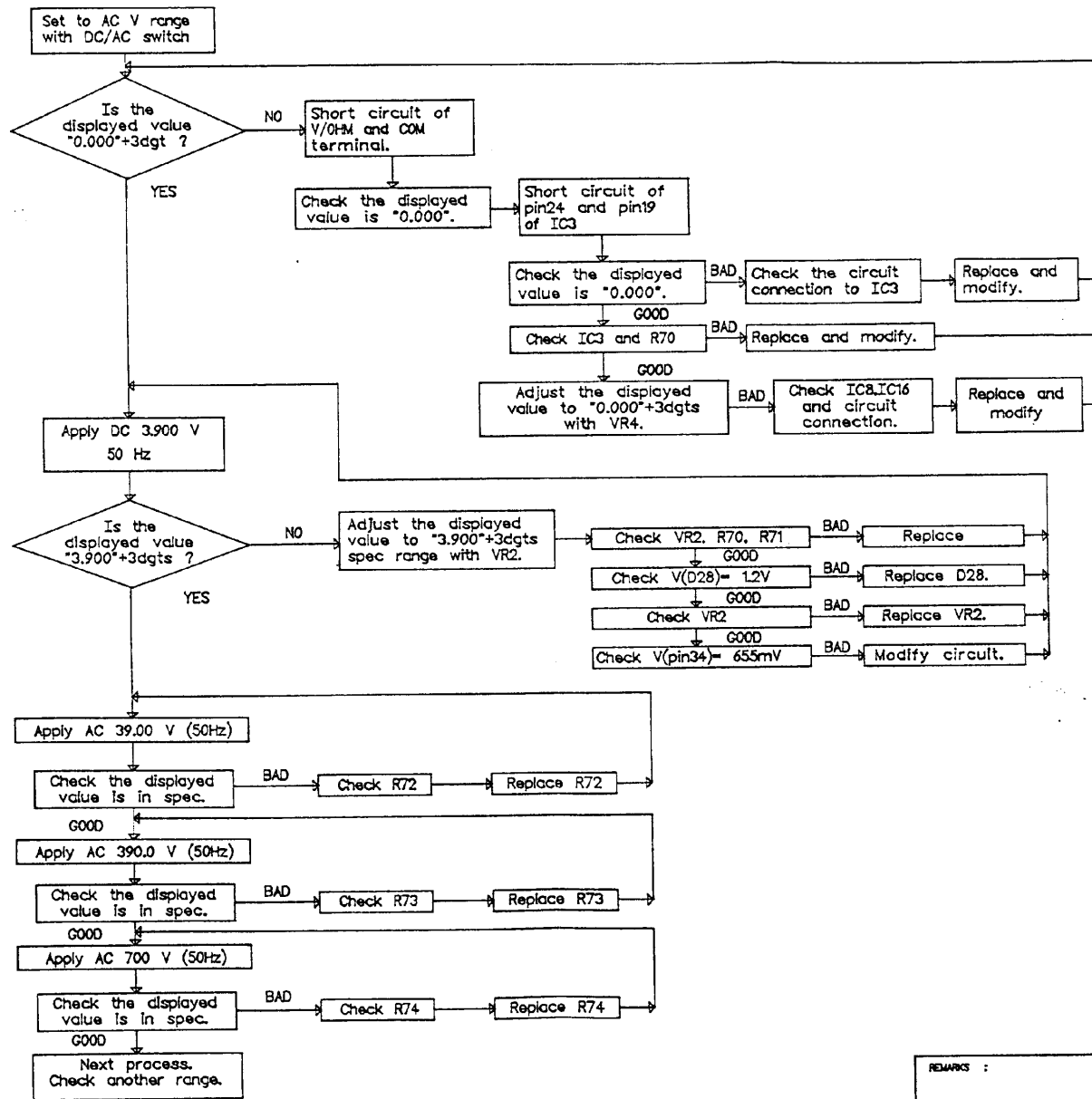
REMARKS :

TITLE		AC mV RANGE TROUBLE SHOOTING			
DRAWN	DESIGNED	CHECKED	APPROVED	DATE	1993.5.
				DWG NO	3
METEX INSTRUMENTS			MODEL	M-3850 & M-3830	



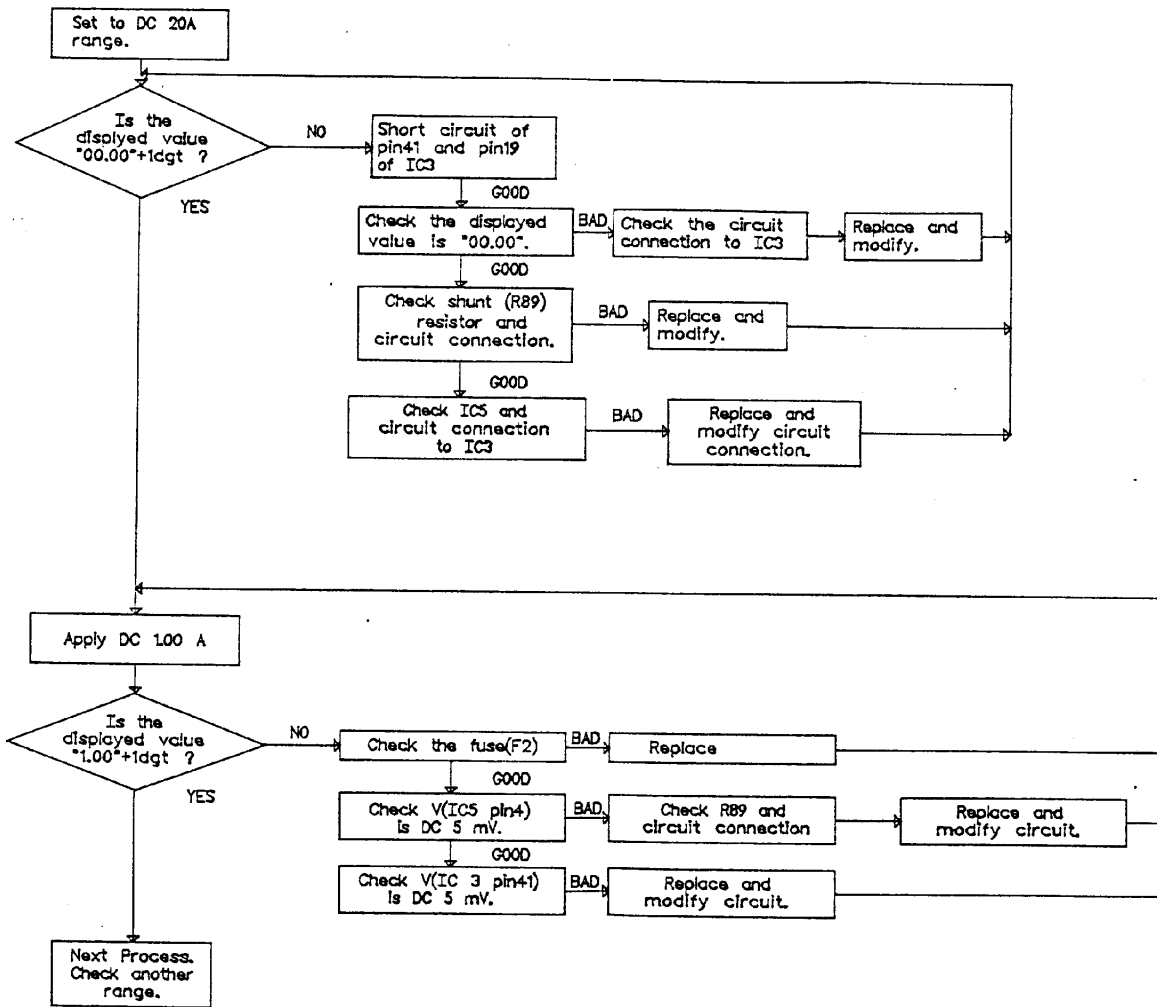
REMARKS :					
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DRAWN	DESIGNED	CHECKED	APPROVED	DATE	1993.5.
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METEX INSTRUMENTS			MODEL	M-3850 &	

AC V RANGE

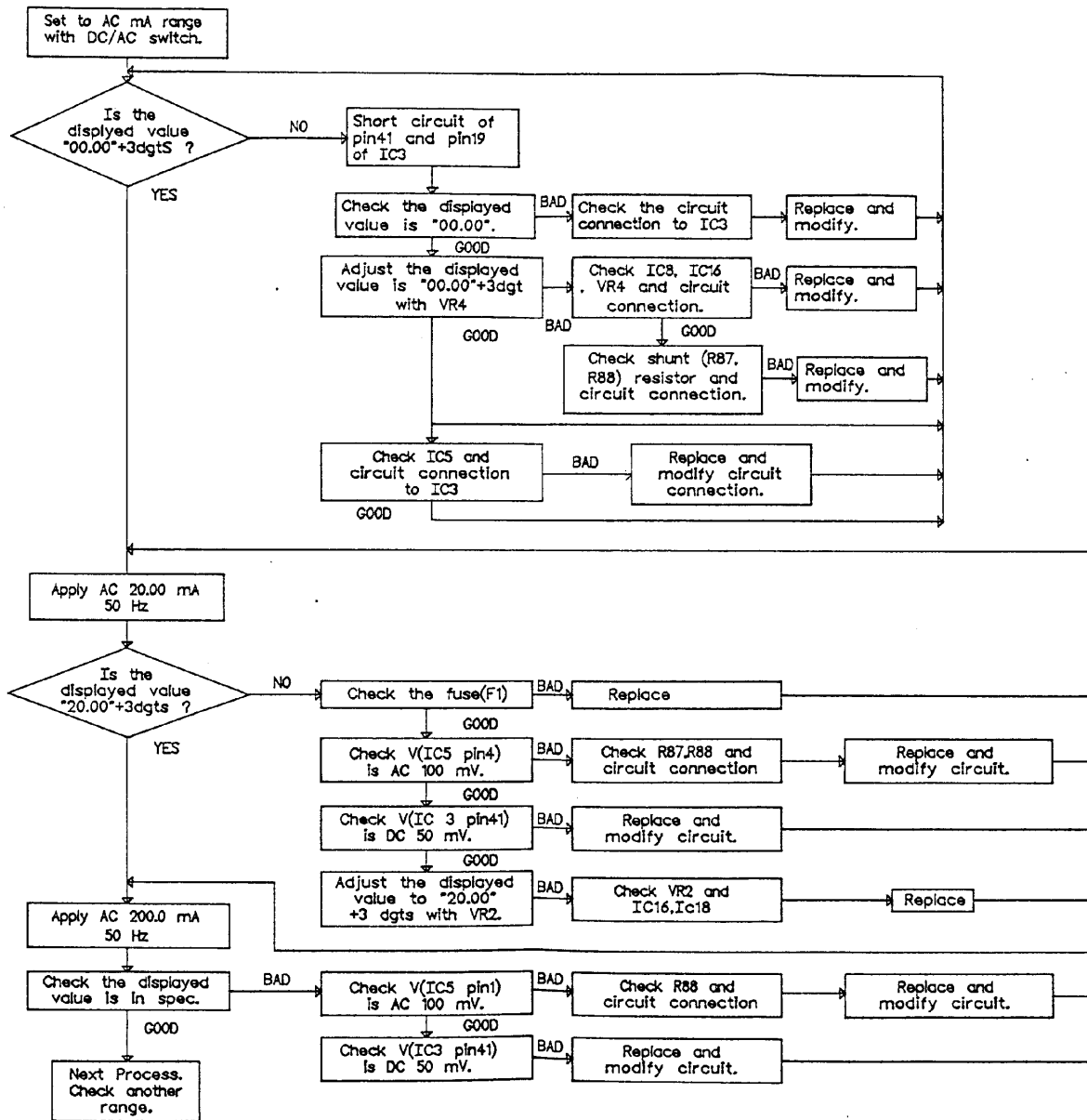


REMARKS :

AC V RANGE TROUBLE SHOOTING					
TITLE	DATE	APPROVED	CHECKED	DESIGNED	DRAWN
	1993.5.6				5
METEX INSTRUMENTS			MODEL	M-3850 &	

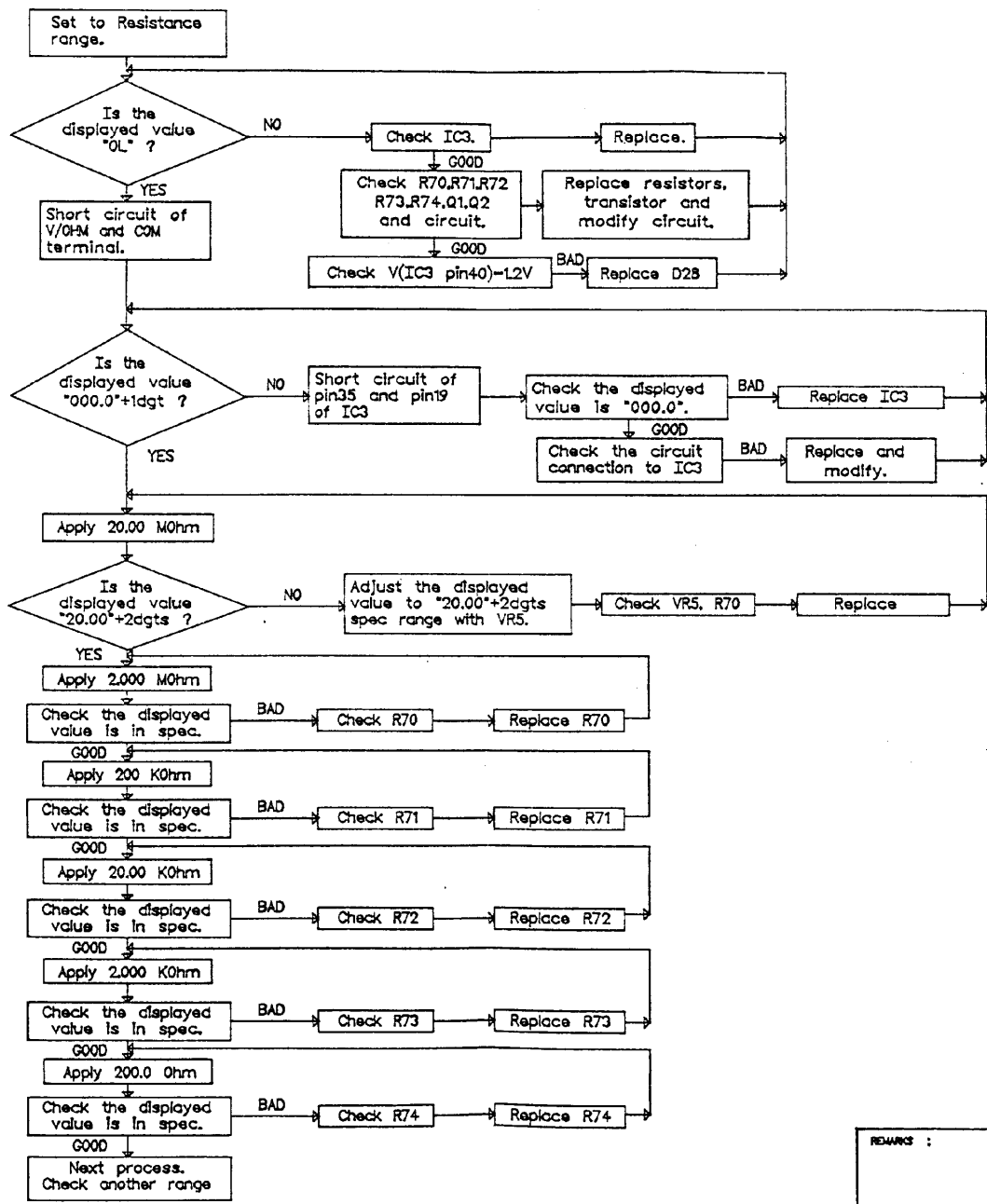


REMARKS :	TITLE DC A RANGE TROUBLE SHOOTING					
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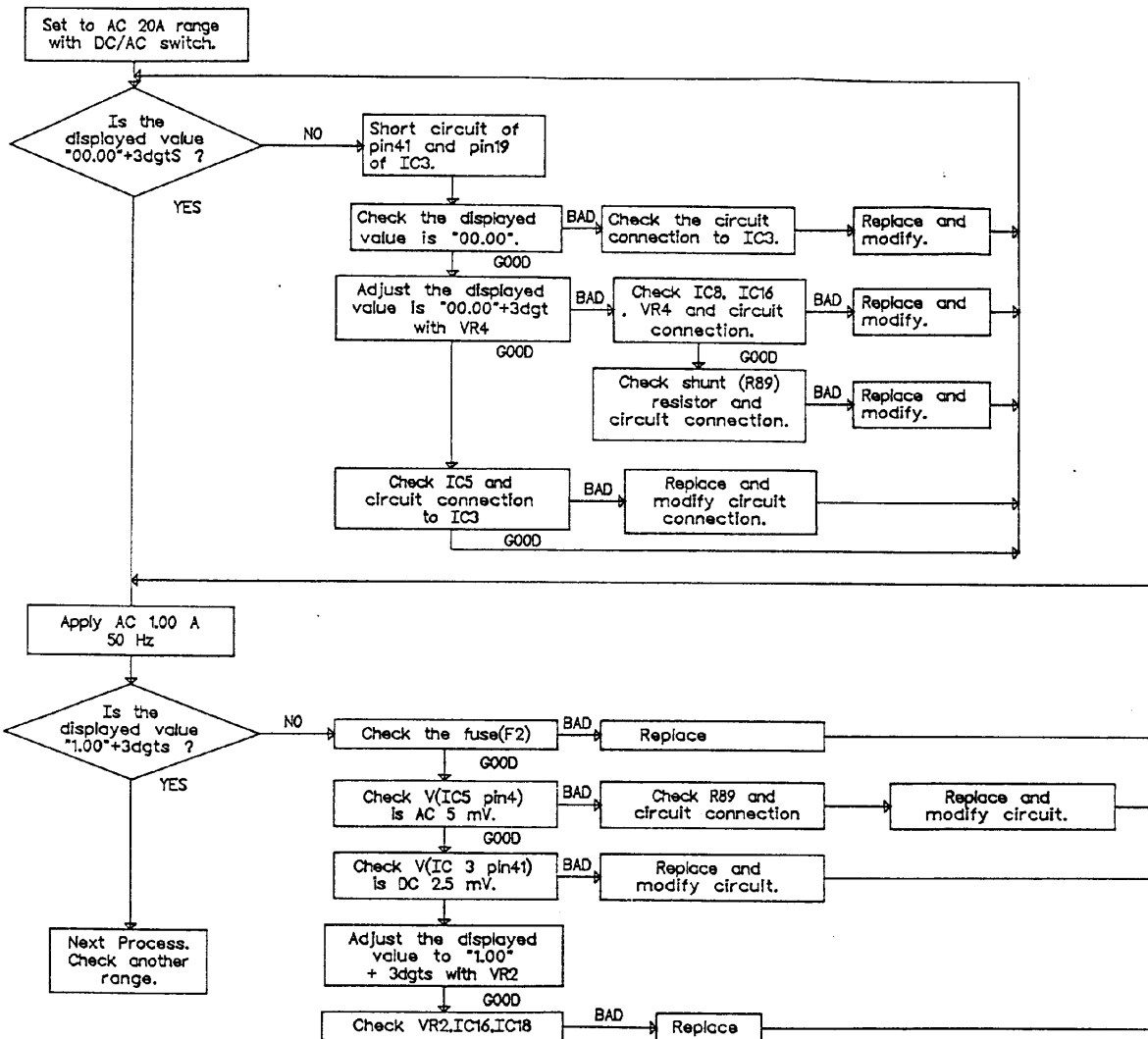


REMARKS :	TITLE AC mA RANGE TROUBLE SHOOTING					
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	METEX INSTRUMENTS			MODEL	M-3850 &	

RESISTANCE RANGE



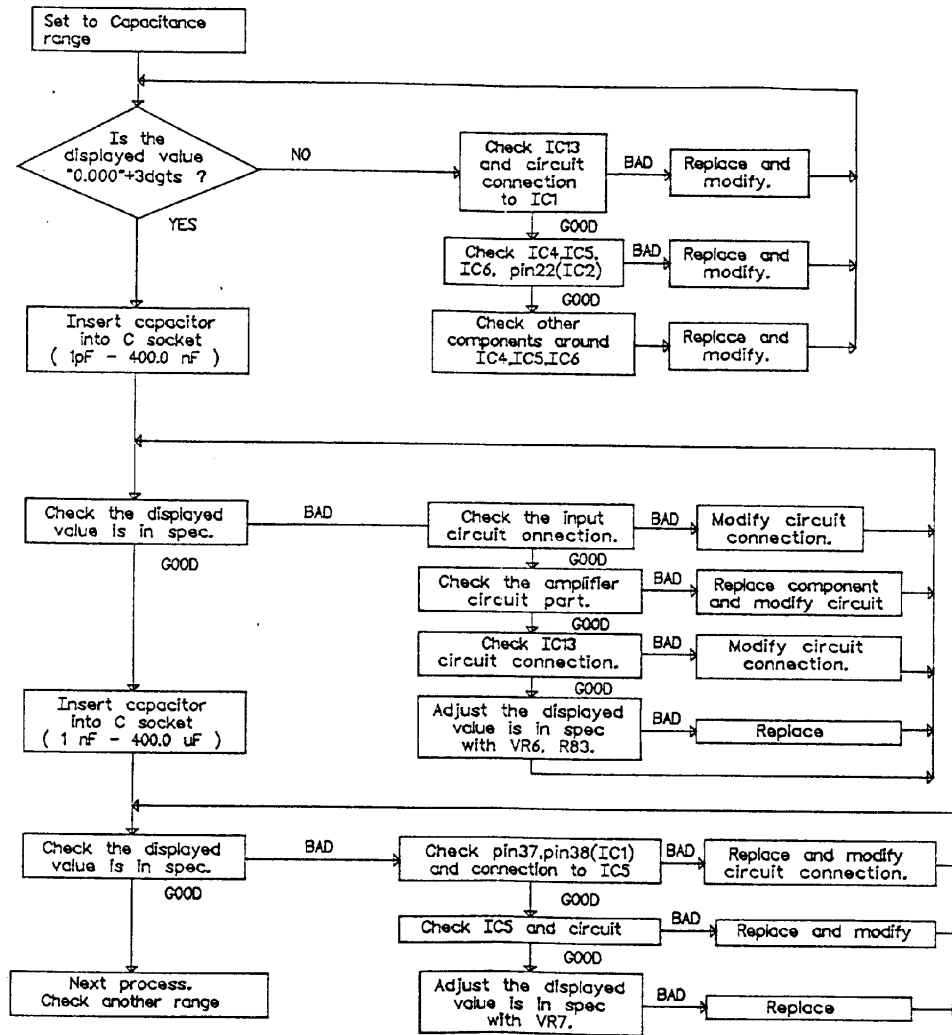
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	METEX INSTRUMENTS			MODEL	M-3850 &	



REMARKS :		TITLE AC A RANGE TROUBLE SHOOTING					
		DRAWN	DESIGNED	CHECKED	APPROVED	DATE	1993.5.6
						DWL NO	9
		METEX INSTRUMENTS			MODEL	M-3850 & M-3830	

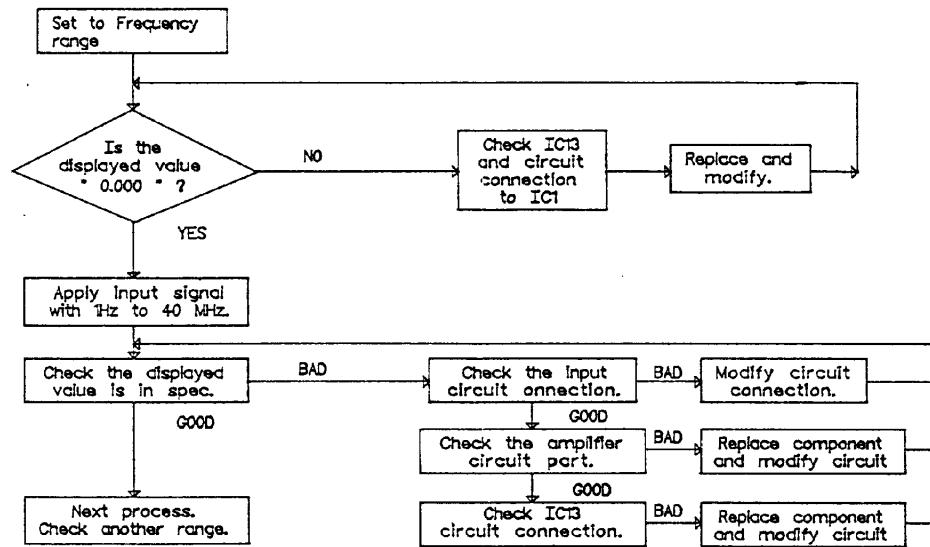


CAPACITANCE RANGE



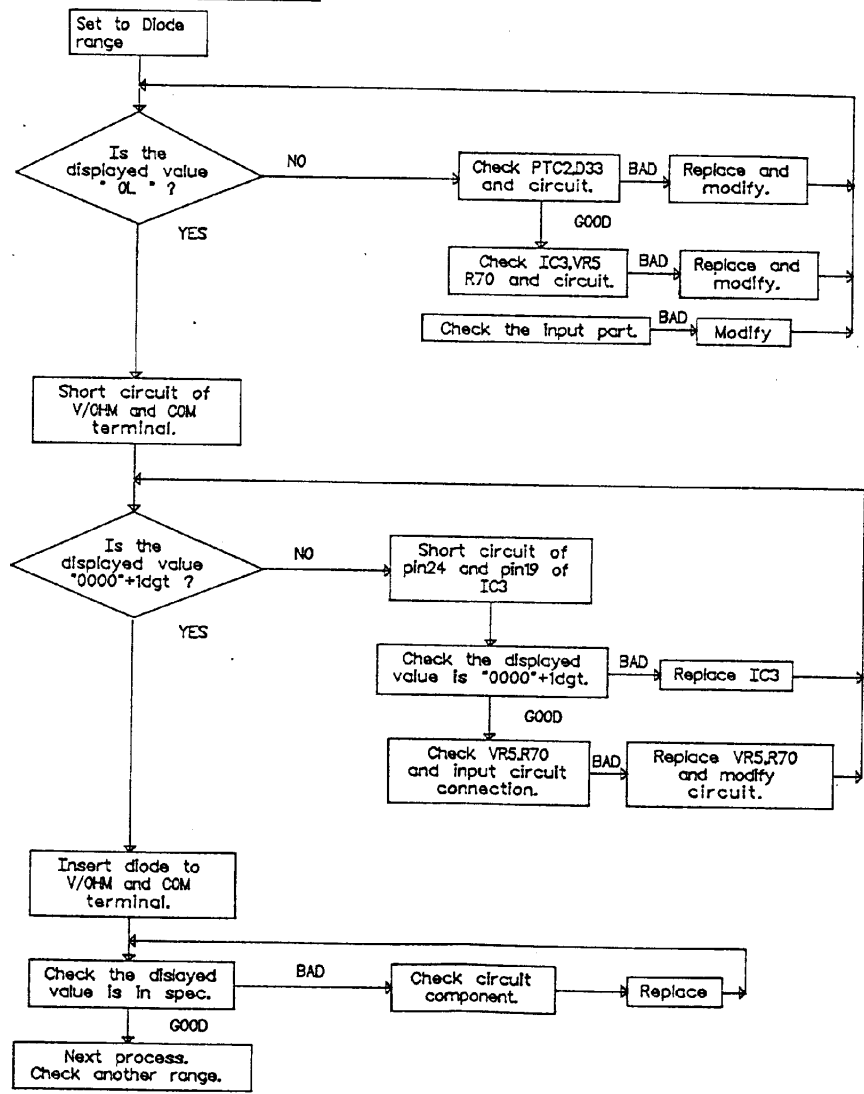
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	DRAWN	DESIGNED	CHECKED	APPROVED	DATE	1993.5.6
					DWG. NO	13
	METEX INSTRUMENTS			MODEL	M-3850 & M-3830	

FREQUENCY RANGE



REMARKS :						TITLE											
						FREQUENCY RANGE TROUBLE SHOOTING						DATE					
						DRAWN		DESIGNED		CHECKED		APPROVED		DATE		1993.5.	
														DVLJ#		12	
						METEX INSTRUMENTS		MODEL		M-3850 &							

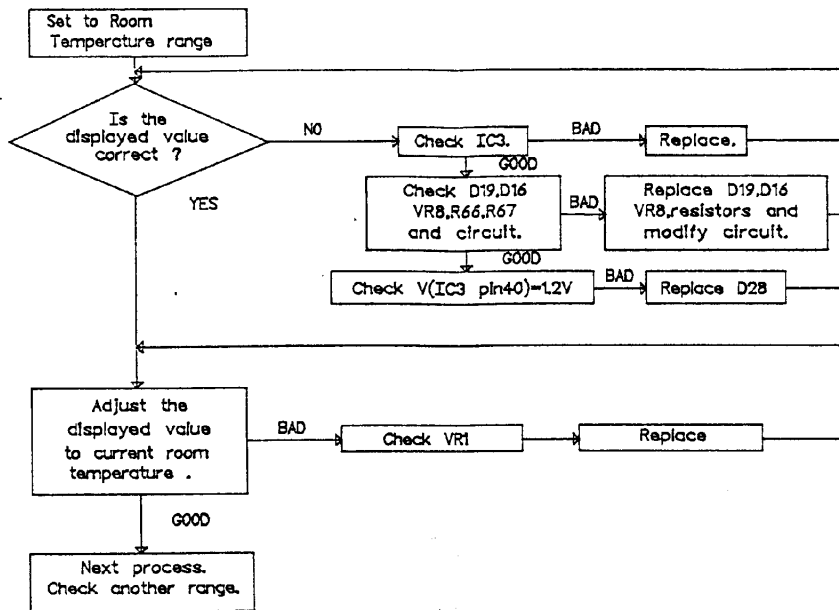
DIODE RANGE



REMARKS :

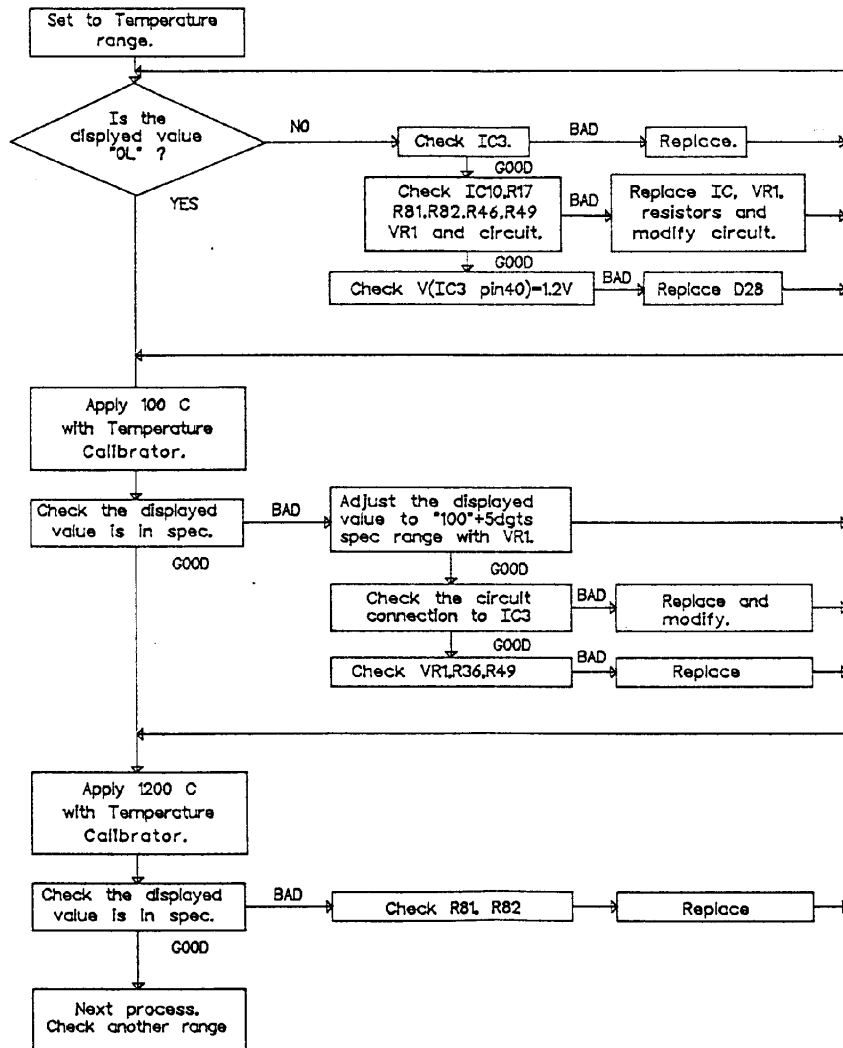
TITLE					DIODE RANGE TROUBLE SHOOTING				
DRAWN	DESIGNED	CHECKED	APPROVED	DATE	DATE	DATE	DATE	DATE	DATE
				1993.5.6					
									11
METEX INSTRUMENTS							MODEL		M-3850 & M-3830

ROOM TEMPERATURE RANGE

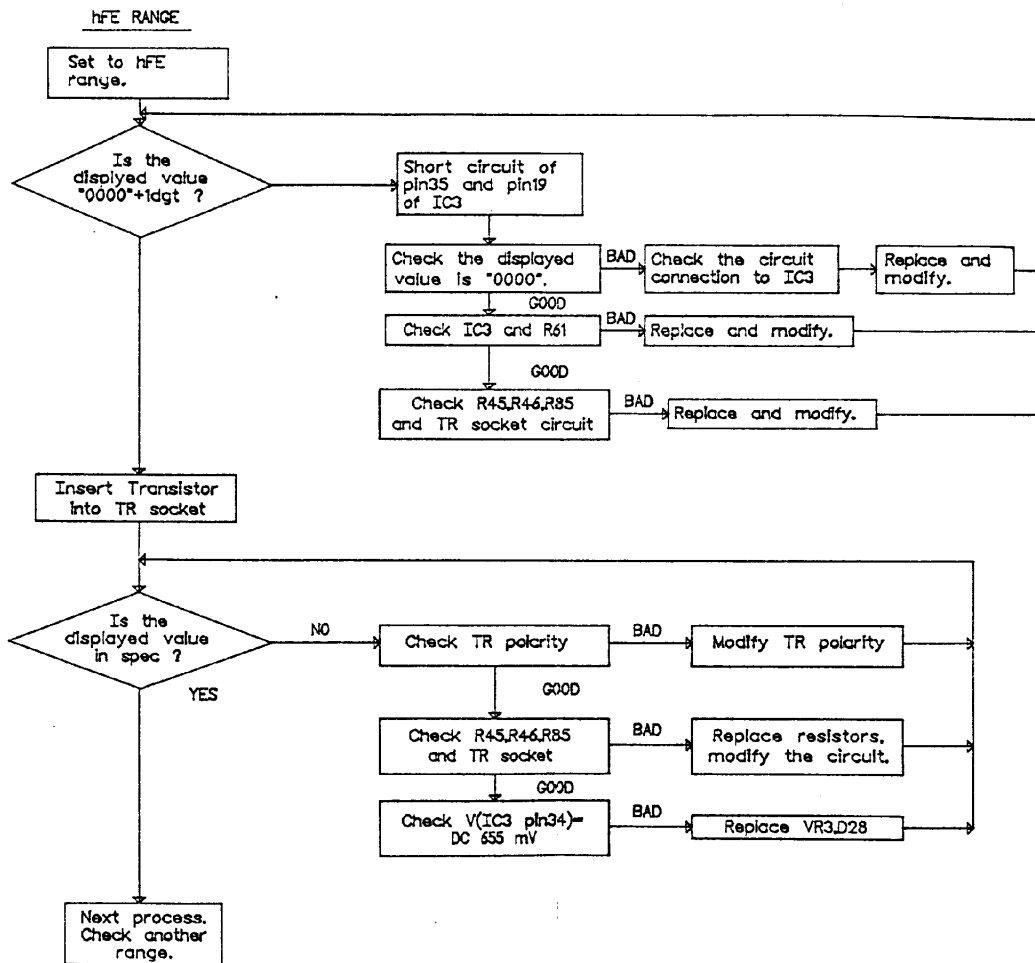


REMARKS :	TITLE TEMPERATURE RANGE TROUBLE SHOOTING					
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					DWG. NO	16
	METEX INSTRUMENTS			MODEL	M-3850 & M-3830	

TEMPERATURE RANGE

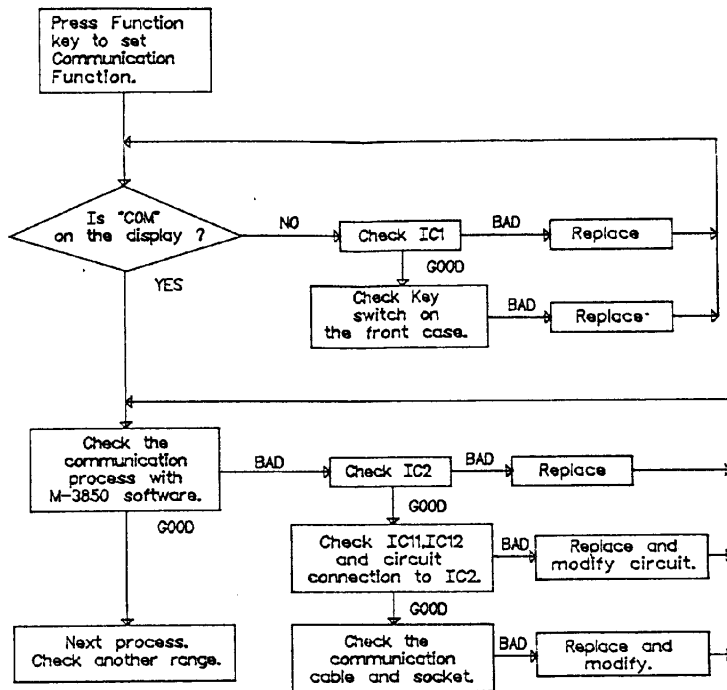


REMARKS :	TITLE TEMPERATURE RANGE TROUBLE SHOOTING					
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					DWG. NO	15
	METEX INSTRUMENTS			MODEL	M-3850 & M-3830	

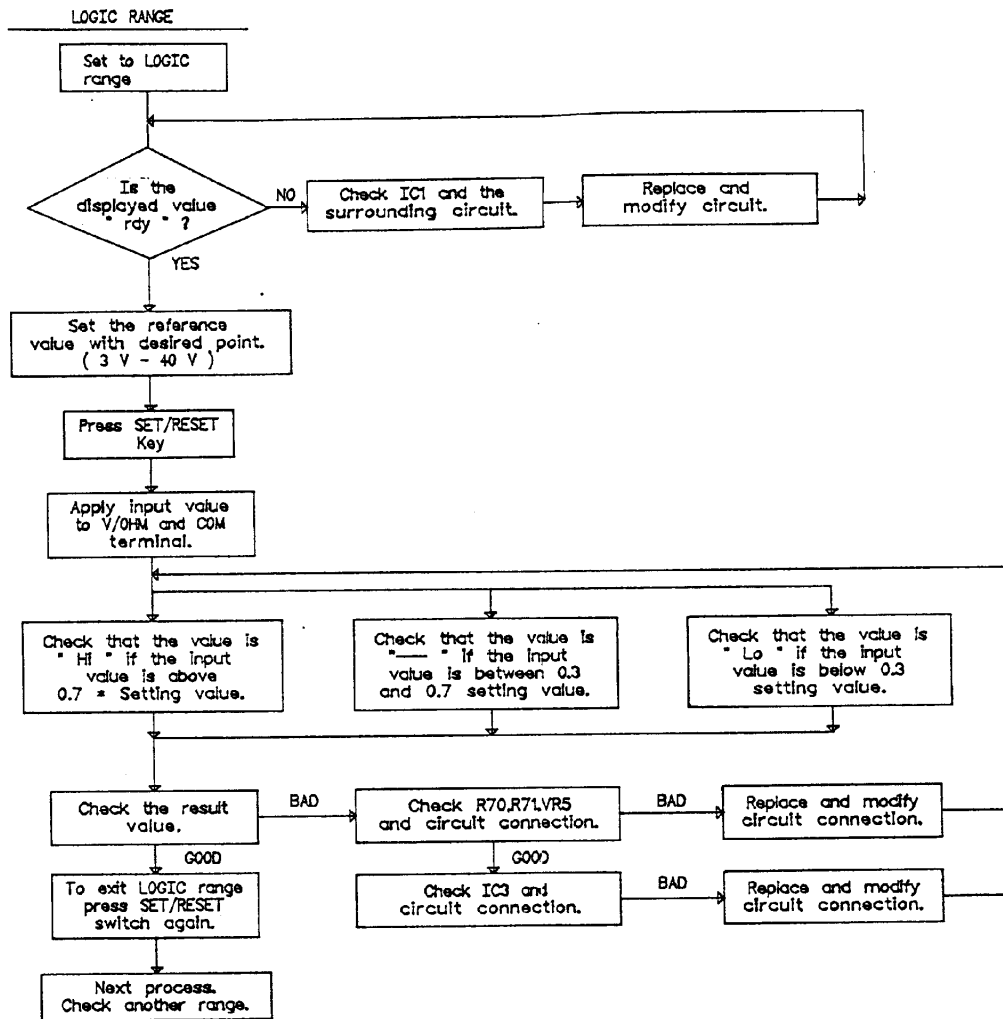


REMARKS :		TITLE hFE RANGE TROUBLE SHOOTING				
		DRAWN	DESIGNED	CHECKED	APPROVED	DATE 1993.5.6
						DWG. NO 14
		METEX INSTRUMENTS		MODEL	M-3850 & M-3830	

COMMUNICATION FUNCTION



REMARKS :	TITLE COMMUNICATION TROUBLE SHOOTING					
	DRAWN	DESIGNED	CHECKED	APPROVED	DATE	1993.5.6
					DRAWING	18
	METEX INSTRUMENTS			MODEL	M-3850 &	

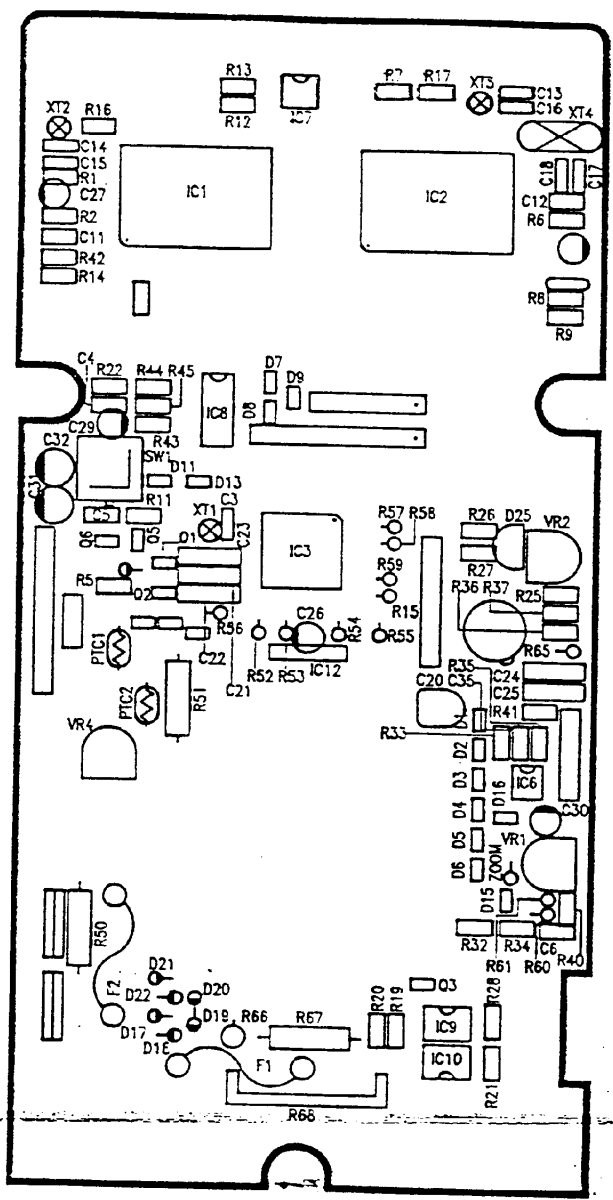
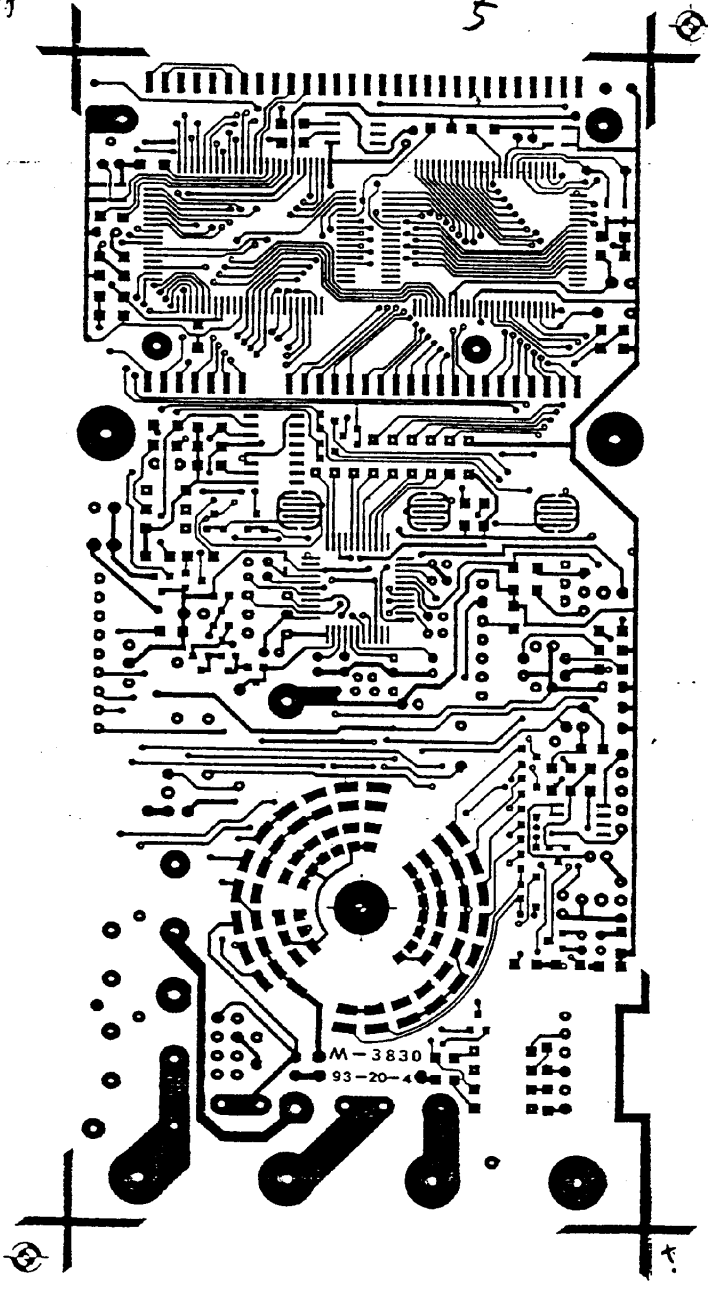


REMARKS :	TITLE LOGIC RANGE TROUBLE SHOOTING					
	DRAWN	DESIGNED	CHECKED	APPROVED	DATE	1993.5.4
					DWLJG	17
	METEX INSTRUMENTS			MODEL	M-3850 & M-3830	



5

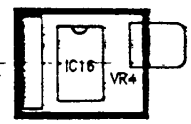
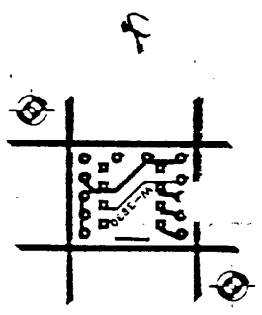
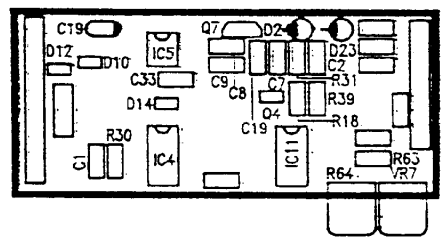
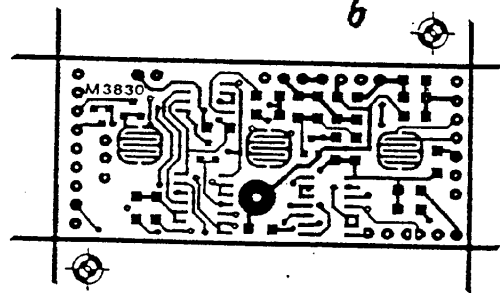
5



M3830

130419

6



M3850

M3830

IC16 → IC13

VR4 → VR3