

CITIZEN

Service Manual

Model : CBM-910

Rev.	Issued	

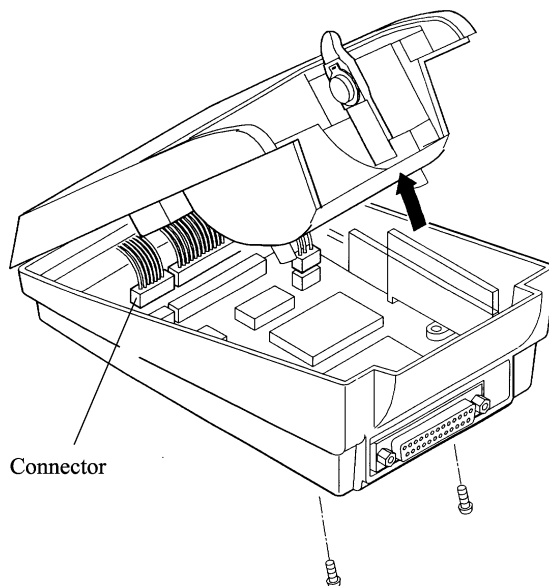
Japan CBM Corporation
Information Systems Div.

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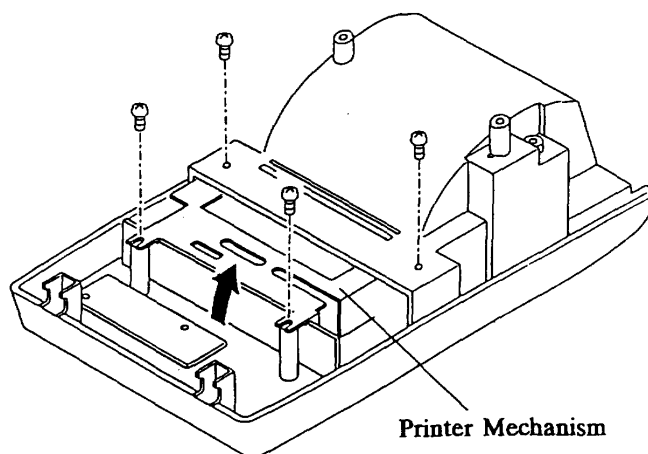
1. How to remove the Upper Cover

- (1) Unfasten 2 screws M3x8 on the Bottom Cover.
- (2) Lift the Upper Cover in the arrow direction removal.
- (3) Unfasten 2 screw, The Printer Mechanism mounting screw, Then remove the Shield Plate from the Printer Mechanism.
- (4) Disconnect the 2 Connectors from the Control Board.



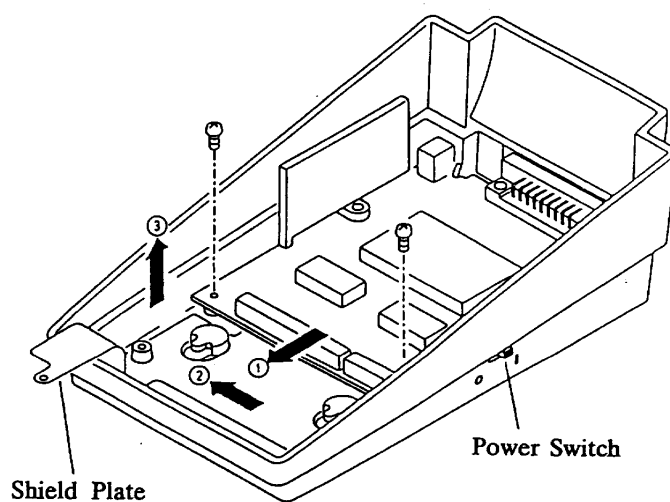
2. How to remove the Printer Mechanism

- (1) Remove the Upper Cover.
- (2) Unfasten 4 screws M2.6x8 and M2x6 as shown below.
- (3) Lift the Printer Mechanism in the arrow direction.



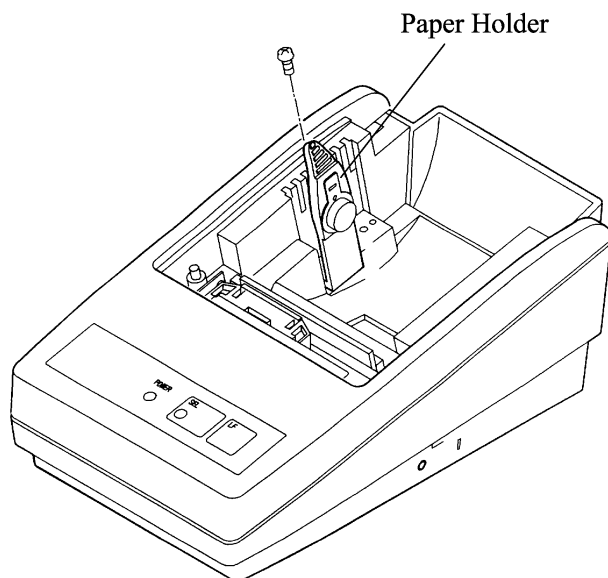
3. How to remove the Control Board

- (1) Remove the Upper Cover.
- (2) Unfasten 2 screws M3x8 as shown below.
- (3) Shift the Control Board in the arrow direction (1).
- (4) Shift the Control Board in the arrow direction (2). and remove the Power Switch from the Bottom Cover.
Then lift in the arrow direction (3).
Remove the shield Plate together with the Control Board.



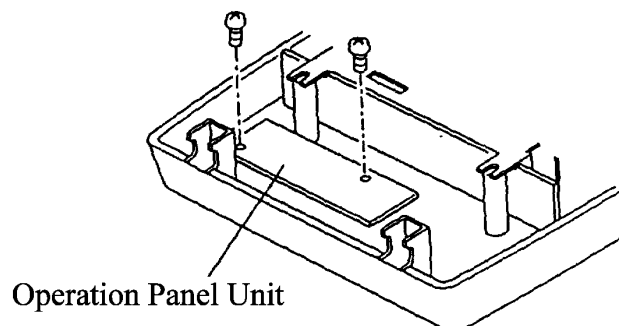
4. How to remove the Paper Holder

- (1) Remove the Printer Cover.
- (2) Unfasten a screw as shown below.



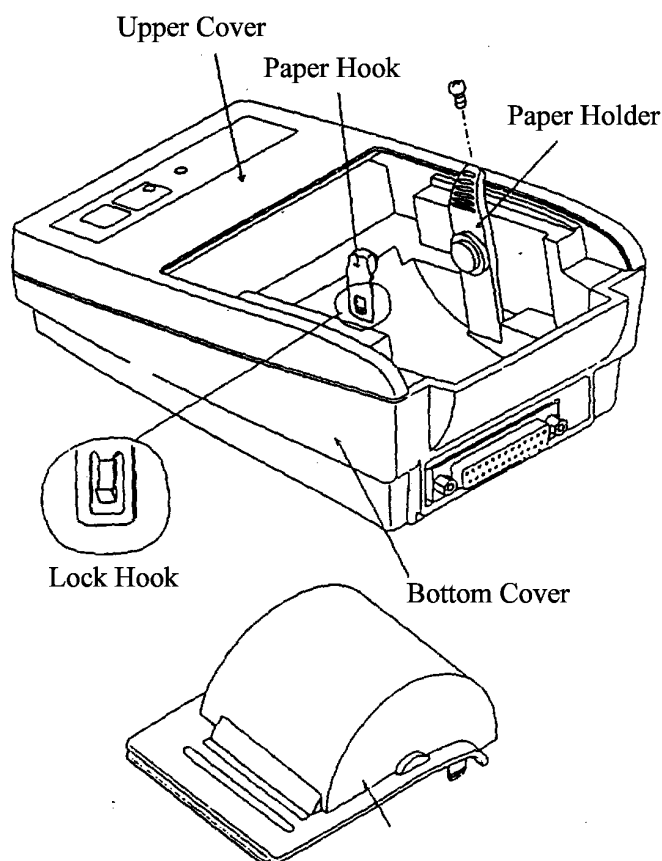
5. How to remove the Operation Panel

- (1) Remove the upper Cover.
- (2) Unfasten 2 screws M2.6x6 as shown below.



6. How to remove the Paper Hook

- (1) Remove the Printer Cover.
- (2) Release a Lock Hook as shown below and lift the Paper Hook to the upside.
- (3) When you set this Lock Hook, set the side of Hook to the Upper Cover. and according to the guide, inset the Lock Hook until this is locked completely.



7. Parts List : Exploded View CBM-910

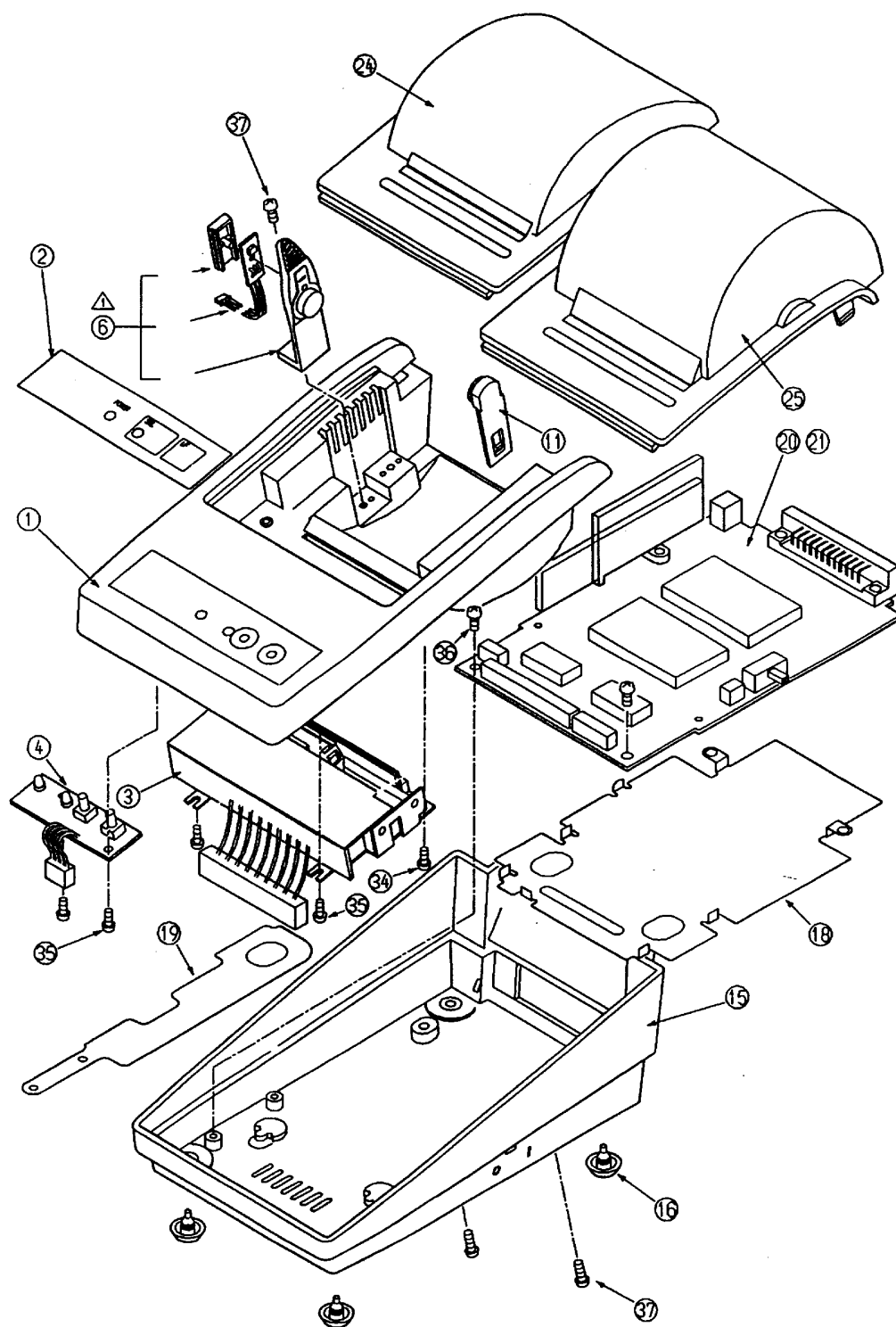
PARTS LIST

CBM910-PF / -RF

EXPLODED VIEW

Ref. No.	Parts No.	Description		Q'ty
1	E 62010670	Top Case		1
2	E 5200-220	OP Sheet		1
3	MD910	Printer	MD910	<1>
	MD911	Printer	MD911	<1>
4	E 4000-850	OP assy		1
6	E 4000-990	PE assy		1
11	E 6611-405	Paper Hook		1
15	E 62020140	Bottom Case		1
16	E 6302-290	Foot		2
18	E 4035-720	Scheild Plate		1
19	E 4035-730	Ground Sheet		1
20	E 70010700	PCB assy	CBM910-PF	<1>
	E 70010710	PCB assy	CBM910-RF	<1>
	E 70010711	PCB assy	CBM910-RF-UL	<1>
24	E 62040170	Printer Cover		1
25	E 62040180	Printer Cover -H		<1>
34	76G23760	Screw	M2x6	1
35	76G22839	Screw	M2.6x8	2
37	76G40207	Screw	M3x10	2

8. Exploded View : CBM-910

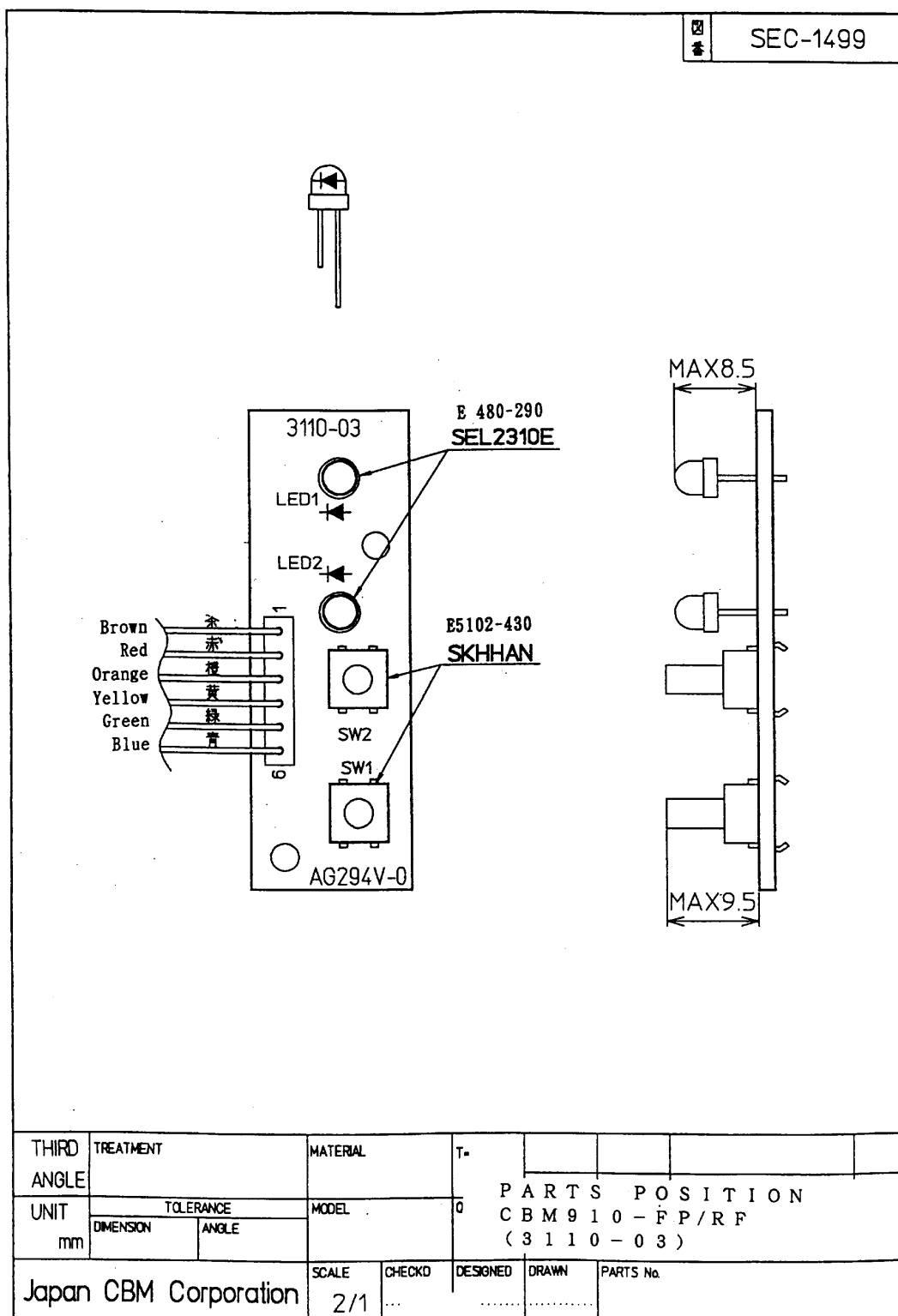


PARTS LIST
OP ASSY

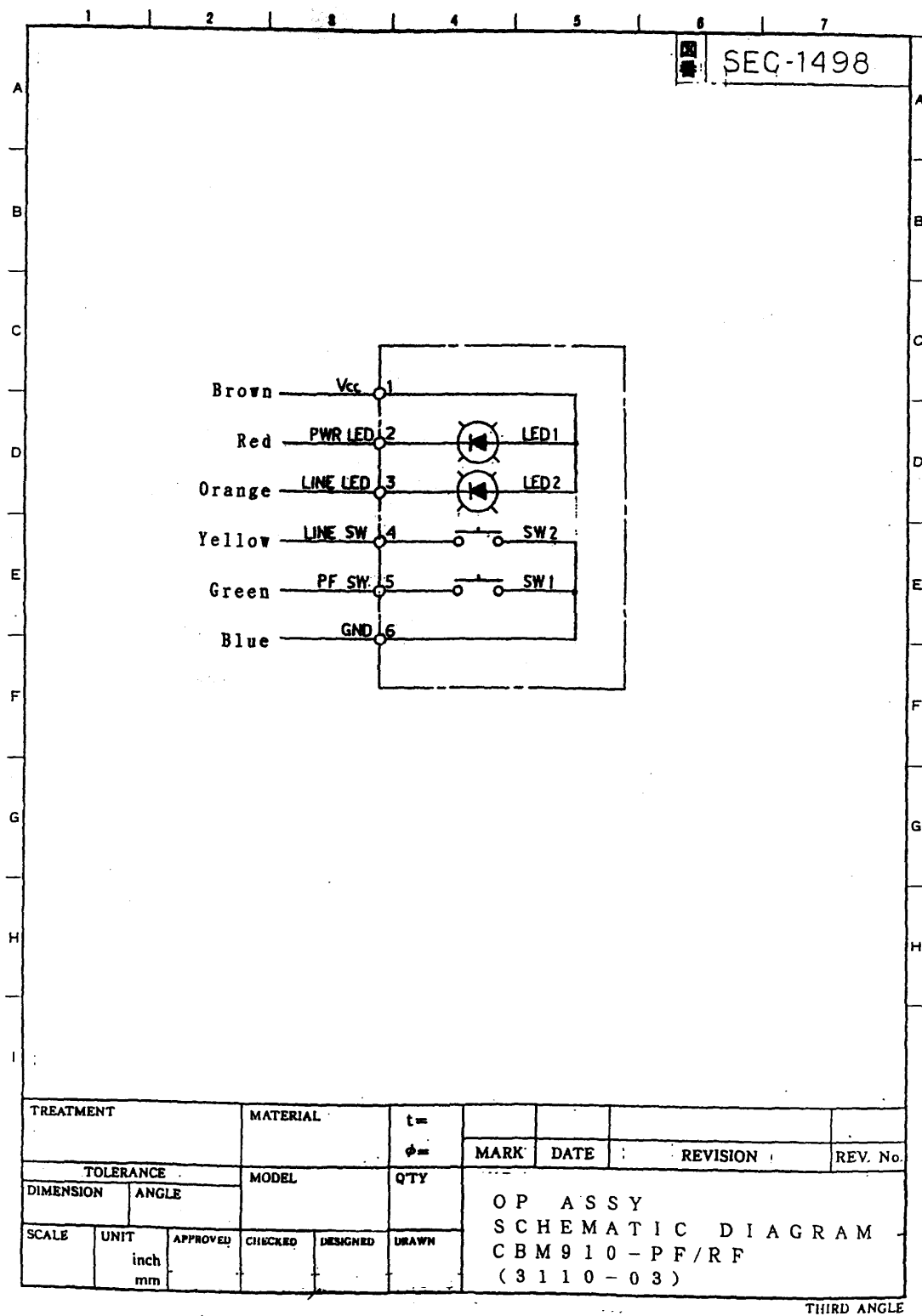
CBM-910-PF / -RF

Ref. No.	Parts No.	Description	Q'ty
LED 1, 2	E 480-290	LED SEL2310E	2
SW 1, 2	E 5102-430	SWITCH SKHHAN	2

9. OP Panel Parts Position : CBM-910-PF/RF



10. OP Assy Schematic Diagram : CBM-910-PF/RF



11. Parts List : Control Board Assy CBM-910-RF

PARTS LIST

CBM-910-RF

CONTROL BOARD ASSY (910-01)

Ref. No.	Parts No.	Description	Q'ty
IC	1 E 107-250	CPU UPD78C10AGF-3BE	1
	2 E 107-260	EP-ROM M27C256-15F1	1
	3 E 107-210	S-RAM LC3664L-10 / 12	1
	4 E 201-930	C-MOS TC74HC373P	1
	5, 6 E 2010130	C-MOS TC74HC04P	2
	7 E 2010100	C-MOS TC74HC00P	1
	8 E 202-910	Reset IC PST520F	1
	9 E 2010040	I / F IC MAX232CPE	1
TA 1, 2	E 390-413	Tr. Array STA-413A	2
TR 1, 5, 7 11, 12, 16 17	E 359-278 (E 359-090)	Tr. 2SC2785HF (2SC1740SR)	7
2, 13	E 379-060	Tr. 2SD1802ST	2
3, 10	E 319-117 (E 319-090)	Tr. 2SA1175HF (2SA9335)	2
4	E 327-070	Tr. 2SB1202ST	1
6	E 379-070	Tr. 2SD1817	1
15	E 359-100	Tr. 2SC4685	1
D	1, 2 E 400-220	Diode 1S1554	2
	4, 6 E 400-270	Diode 1S1588	2
	5 E 400-110	Diode G2B	1
ZD	1 E 413-033	Z. Diode RD13EB2	1
	2, 3 E 405-130	Z. Diode RD5.6EB2 (MTZT-72-5.6B)	2
OSC 1	E 501-340	OSC CSA11.0MTZ020 (11.0592MHz)	1
R 1, 3, 4, 6 14, 21, 22 25, 26, 28 24, 27	E 3103-041	Re. 1 / 4W 10K J	10
2, 5, 7 24, 31	E 3471-041	Re. 1 / 4W 470 J	5
8, 13, 18 19	E 3331-041	Re. 1 / 4W 330 J	4

PARTS LIST

CBM-910-RF

CONTROL BOARD ASSY (910-01)

Ref. No.	Parts No.	Description	Q'ty
R 9, 17	E 3102-041	Re. 1 / 4W 1K J	2
10, 27, 30	E 3332-041	Re. 1 / 4W 3.3K J	3
15, 16, 29	E 3473-041	Re. 1 / 4W 47K J	3
20	E 3472-041	Re. 1 / 4W 4.7K J	1
23	E 3152-041	Re. 1 / 4W 1.5K J	1
C 1	E 2010-150	El. Cap. 50JS-1uF	1
11, 13, 15	E 2010-605	El. Cap. 25JS-10uF	6
20, 21, 22			
12, 14	E 2022-870	El. Cap. 25JS-22uF	2
18, 19	E 2047-520	El. Cap. 25JS-4.7uF	2
C 2, 3, 5	E 2110-040	C. Cap. F26Y5R1H102M0	4
16			
6, 7	E 2130-010	C. Cap. F26SL1H300K0	2
8, 9, 10	E 2147-160	C. Cap. F26SL1H471K0	7
17, 29, 30			
31			
23, 24, 25	E 2110-845	C. Cap. RPE132F104Z25	6
26, 27, 28			
RA 1, 5	E 3500-040	Re. Array M9-1-103J	2
2, 3	E 3681-050	Re. Array M8-3-681J	2
4	E 3500-090	Re. Array M7-1-103J	1
DS 1	E 5103-350	Dip SW. KSD-8	1
CN 1	E 48000490	Connector MOJ-D14	1
2	E 4800-925	Connector 5267-17A-X	1
3	E 48000480	Connector 17LF13250-27 (D3AB) for EUR.	1
	E 48000485	Connector 17LE13250-27 (D3CB) for USA	1
4	E 48000650	Connector 5267-06A-X	1
6	E 4800-950	Connector 5267-03A-X	1
F 1	E 4005-590	Fuse 5ST2A	1
	E 4006-220	Fuse Holder UF-0033#01	2
L 1	E 4009-380	OSC coil SC-03-05GS	1

PARTS LIST

CBM-910-RF

CONTROL BOARD ASSY (910-01)

Ref. No.	Parts No.	Description	Q'ty
SW 1	E 5105-330	Slide SW. SN-20202-1218	1
	76G42141	Screw M3x8 (B-567) (for Tr. Heat sink)	2
	76G30113	Screw M3x8 (B-506) (for Connector)	2 2
	E 4010-410	Heat sink 50-0079	1

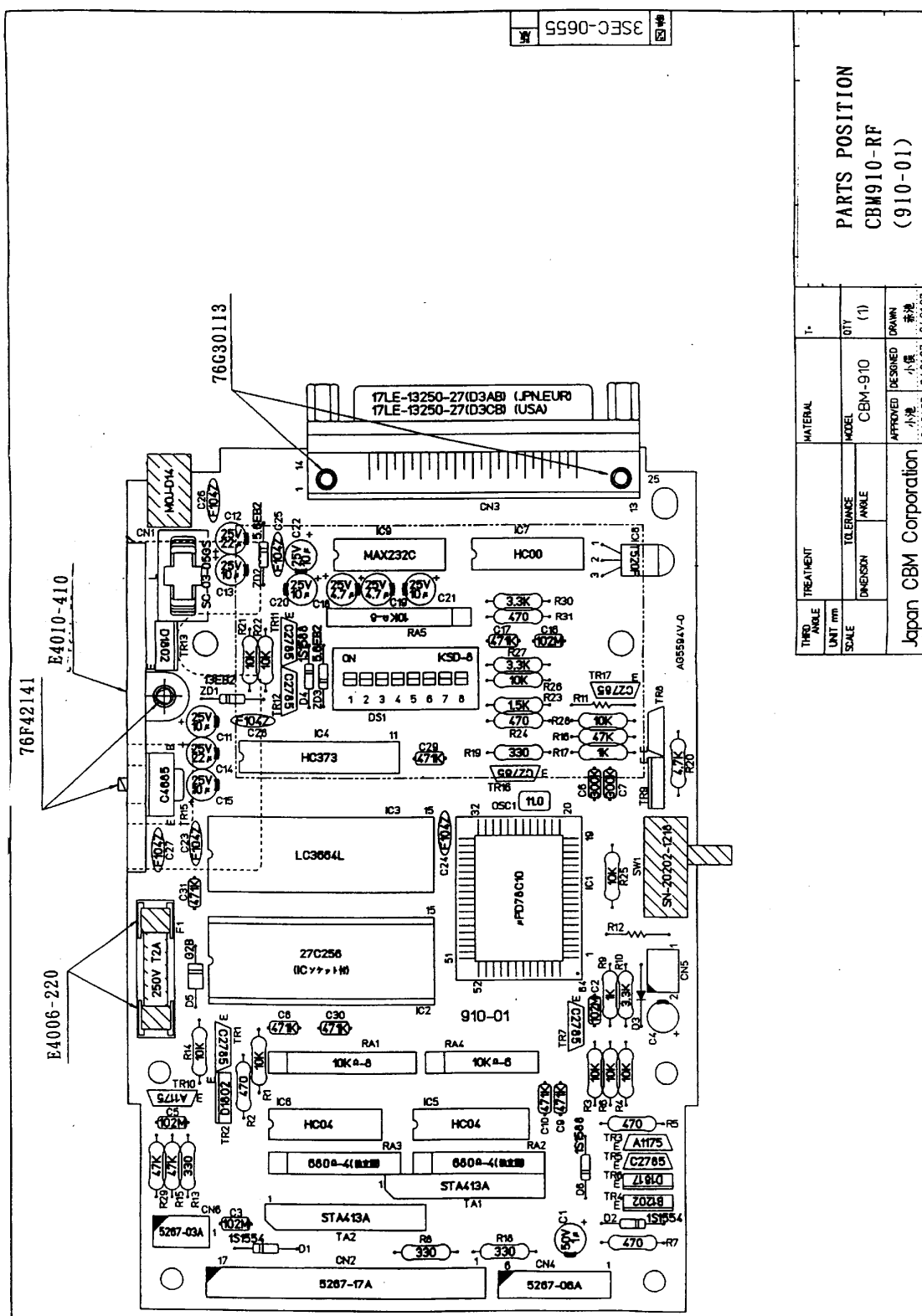
PARTS LIST

CBM-910-RF

CONTROL BOARD ASSY, Paper Winder (Option)

Ref. No.	Parts No.	Description	Q'ty
TR 8	E 359-278	Transistor 2SC2785HF	1
9	E 379-060	Transistor 2SD1802ST	1
D 3	E 400-220	Diode 1S1554	1
C 4	E 2010-150	El. Cap. 50JS-1uF	1
R 11	E 3103-041	Re. 1 / 4W 10K J	1
12	E 3471-041	Re. 1 / 4W 470 J	1
CN 5	E 4800-940	Connector 5267-02A-X	1

12. Parts Position : CBM-910-RF



13. Parts List : Control Board Assy CBM-910-PF

PARTS LIST

CBM-910-PF

CONTROL BOARD ASSY (910-02)

Ref. No.	Parts No.	Description	Q'ty
IC	1 E 107-250	CPU UPD78C10AGF-3BE	1
	2 E 107-260	EP-ROM M27C256B-15F1	1
	3 E 107-210	S-RAM LC3664L-10 / 12	1
	4, 11 E 201-930	C-MOS TC74HC373P	2
	5, 6 E 2010130	C-MOS TC74HC04P	2
	7 E 2010100	C-MOS TC74HC00P	1
	8 E 202-910	Reset IC PST520F	1
	9 E 2010321	C-MOS TC74HC74P	1
	10 E 202-811	TTL 7404	1
TA 1, 2	E 390-413	Tr. Array STA-413A	2
TR	1, 5, 7 E 359-278	Tr. 2SC2785HF	5
	11, 12 (E 359-090)	(2SC1740SR)	
	2, 13 E 379-060	Tr. 2SD1802ST	2
	3, 10 E 319-117	Tr. 2SA1175HF	2
	(E 319-090)	(2SA9335)	
	4 E 327-070	Tr. 2SB1202ST	1
	6 E 379-070	Tr. 2SD1817	1
	15 E 359-100	Tr. 2SC4685	1
D	1, 2 E 400-220	Diode 1S1554	2
	4, 6 E 400-270	Diode 1S1588	2
	5 E 400-110	Diode G2B	1
ZD	1 E 413-033	Z. Diode RD13EB2	1
	2, 3 E 405-130	Z. Diode RD5.6EB2 (MTZT-72-5.6B)	2
OSC 1	E 501-340	OSC CSA11.0MTZ020 (11.0592MHz)	1
R 1, 3, 4, 6 14, 21, 22 26 2, 5, 7 24, 27 8, 13, 18 19 9, 17 10	E 3103-041	Re. 1 / 4W 10K J	8
	E 3471-041	Re. 1 / 4W 470 J	5
	E 3331-041	Re. 1 / 4W 330 J	4
	E 3102-041	Re. 1 / 4W 1K J	2
	E 3332-041	Re. 1 / 4W 1.3K J	1

PARTS LIST

CBM-910-PF

CONTROL BOARD ASSY (910-02)

Ref. No.	Parts No.	Description	Q'ty
R15,16,29	E 3473-041	Re. 1 / 4W 47K J	3
20	E 3472-041	Re. 1 / 4W 4.7K J	1
23	E 3152-041	Re. 1 / 4W 1.5K J	1
C 1	E 2010-150	El. Cap. 50JS-1uF	1
11, 13, 15	E 2010-605	El. Cap. 25JS-10uF	3
12, 14	E 2022-870	El. Cap. 25JS-22uF	2
C 2, 3, 5	E 2110-040	C. Cap. F26Y5R1H102M0	5
17, 18			
6, 7	E 2130-010	C. Cap. F26SL1H300K0	2
8, 9, 10	E 2147-160	C. Cap. F26SL1H471K0	7
16, 25, 25			
27			
19, 20, 21	E 2110-845	C. Cap. RPE132F104Z25	6
22, 23, 24			
RA 1	E 3500-040	Re. Array M9-1-103J	1
2, 3	E 3681-050	Re. Array M8-3-681J	2
4	E 3500-090	Re. Array M7-1-103J	1
5	E 3500-050	Re. Array M5-1-103J	1
6	E 3500-080	Re. Array M9-1-332J	1
7	E 3500-100	Re. Array M7-1-332J	1
8, 9	E 3500-110	Re. Array M8-3-472J	2
DS 1	E 5103-470	Dip SW. KSD-4	1
CN 1	E 48000490	Connector MOJ-D14	1
2	E 4800-925	Connector 5267-17A-X	1
3	E 48000680	Connector 57LE-40360-730B (D12)	1
4	E 48000650	Connector 5267-06A-X	1
5	E 4800-950	Connector 5267-03A-X	1
F 1	E 4005-590	Fuse 5ST2A	1
	E 4006-220	Fuse Holder UF-0033#01	2
L 1	E 4009-380	OSC coil SC-03-05GS	1
SW 1	E 5105-330	Slide SW. SN-20202-1218	1

PARTS LIST

CBM-910-PF

CONTROL BOARD ASSY (910-02)

Ref. No.	Parts No.	Description	Q'ty
	76G42141	Screw M3x8 (B-567) (for Tr. Heat sink)	2
	76G30113	Screw M3x8 (B-506) (for Connector)	2
	E 4010-410	Heat sink	1

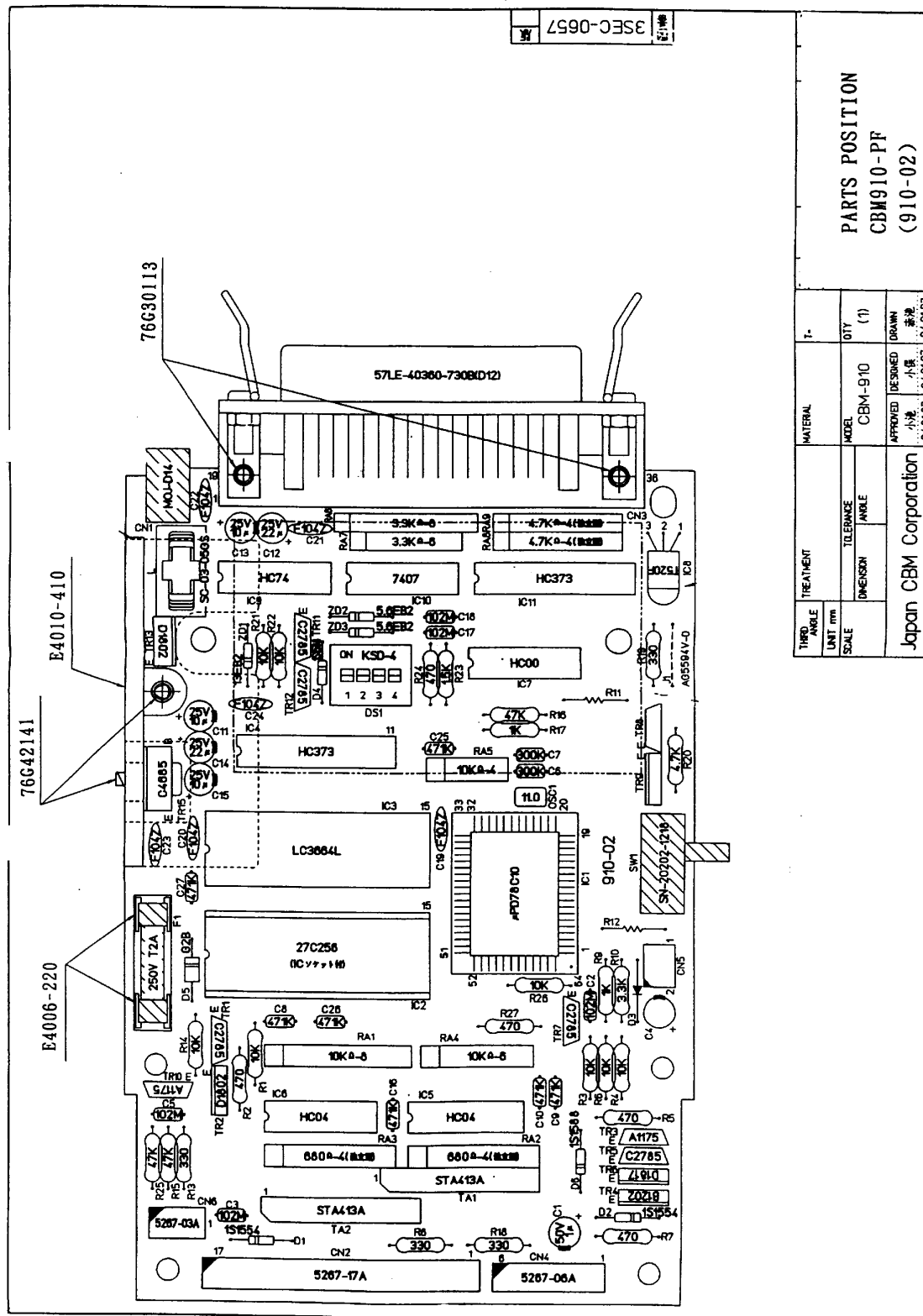
PARTS LIST

CBM-910-PF

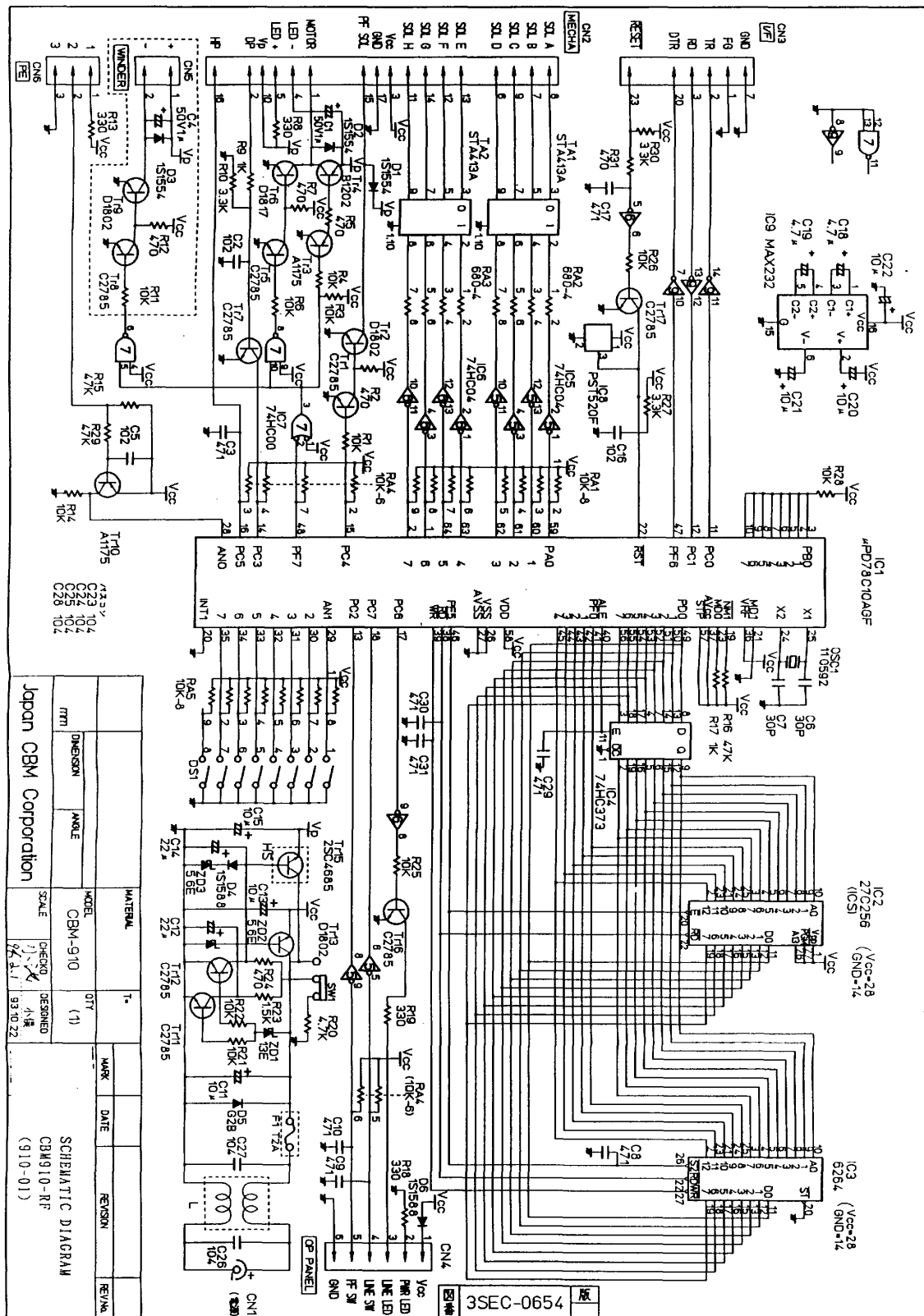
CONTROL BOARD ASSY, Paper Winder (Option)

Ref. No.	Parts No.	Description	Q'ty
TR 8	E 359-278	Transistor 2SC2785HF	1
9	E 379-060	Transistor 2SD1802ST	1
D 3	E 400-220	Diode 1S1554	1
C 4	E 2010-150	El. Cap. 50JS-1uF	1
R 11	E 3103-041	Re. 1 / 4W 10K J	1
12	E 3471-041	Re. 1 / 4W 470 J	1
CN 5	E 4800-940	Connector 5267-02A-X	1

14. Parts Position : CBM-910-PF



15. Schematic Diagram CBM-910-RF



16. Schematic Diagram CBM-910-PF

