



KIKUSUI
KIKUSUI ELECTRONICS CORP.

SERVICE MANUAL & GUIDE CHANGES

Model: COM7100A/7101A;
COM7100A COM7101A

Change Reference: MC15-21
1 of 2

Manual Part No.: Z1-512-371

SCHEMATIC CHANGE

7-Oct-98 CHG COM7101A/COM7100A

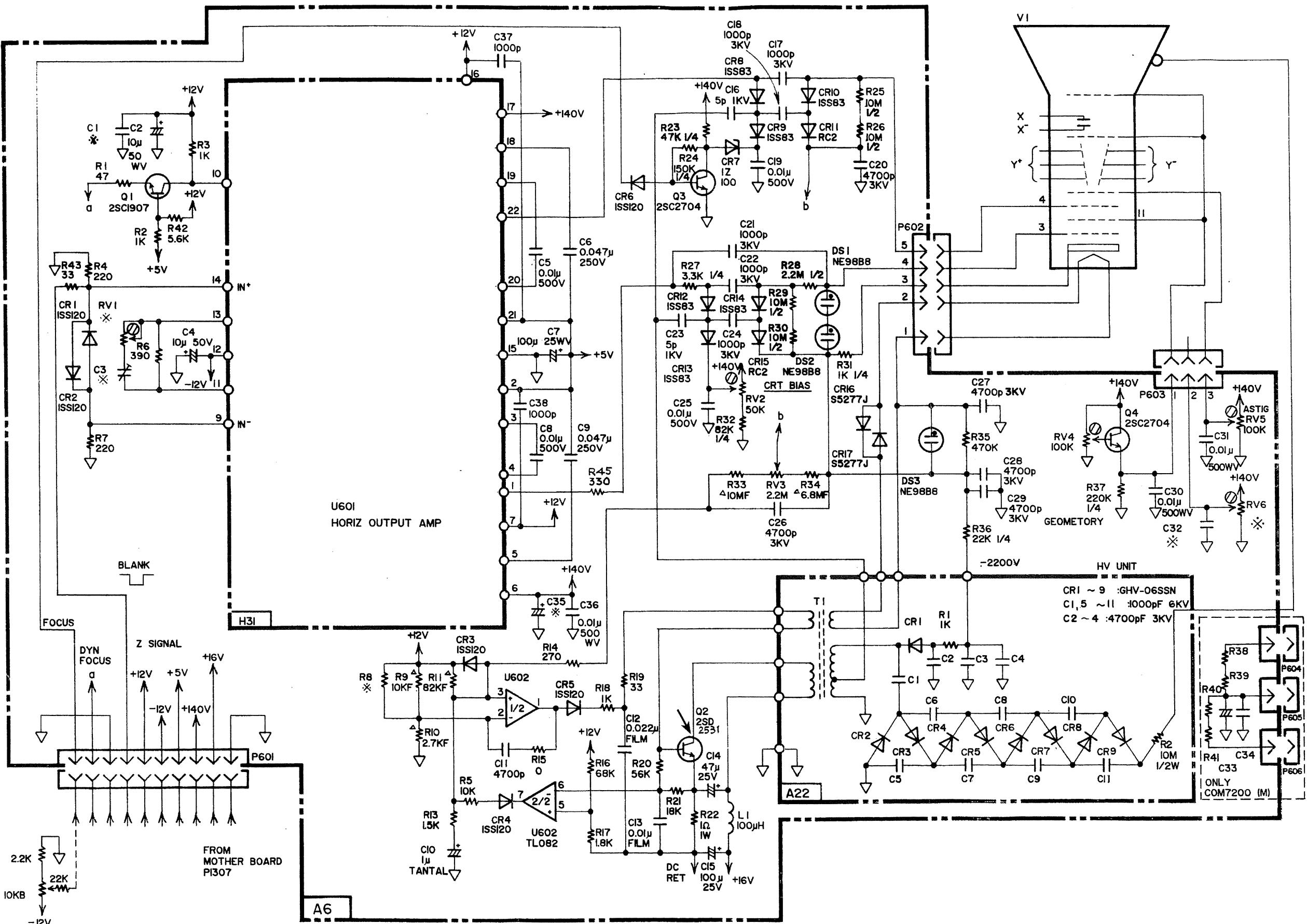
Page 6-11 A6 Z AXIS AMP & A22 H.V UNIT

CC00495-1

See page 2 of 2

A change of circuit diagram NO.

322463-7 to CC00495-1



Change Reference: MC15-21

2 of 2

Manual Part No.: Z1-512-371

COM7101A/COM7100A
A6 Z AXIS AMP & A22 H.V. UNIT

7-Oct-98

Drawing No.: CC00495-1



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SERVICE MANUAL & GUIDE CHANGES

Model: COM7100A/7101A;
COM7100A COM7101A

Change Reference: MC14-16
1 of 2

Manual Part No.: Z1-512-371

PARTS LIST CHANGE

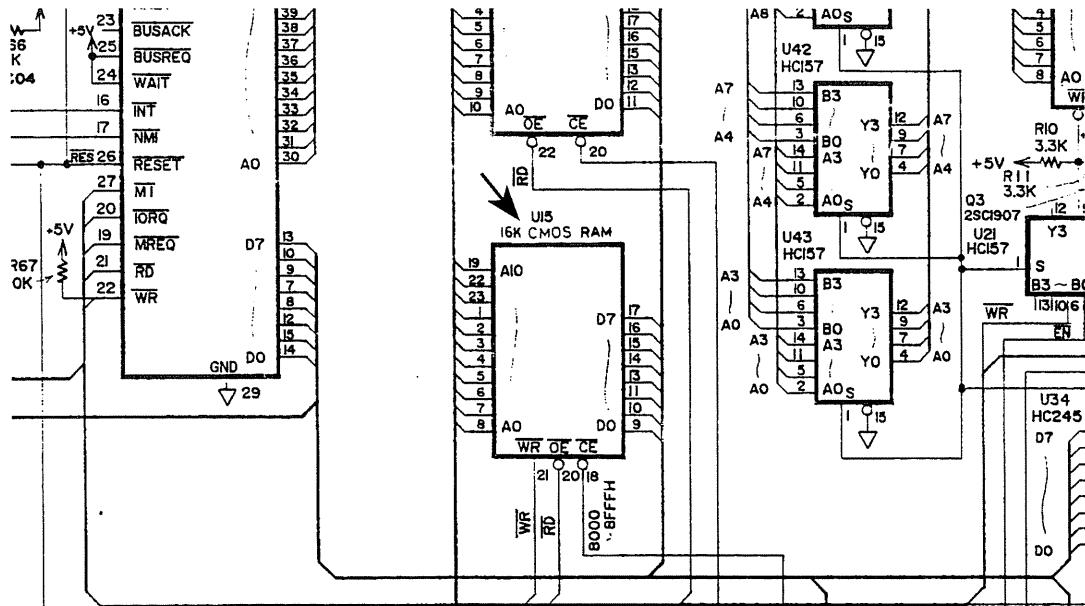
21-Jan-98 CHG COM7101A

Page 7-21 U015 35-56-0080 SRAM 2K X 8BIT 150NS	SANYO	LC3517BL15
7-22 U085 35-56-0080 SRAM 2K X 8BIT 150NS	SANYO	LC3517BL15

SCHEMATIC CHANGE

21-Jan-98 CHG COM7100A/COM7101A

Page 6-15 A8 MAIN CPU 1/2 28036-3



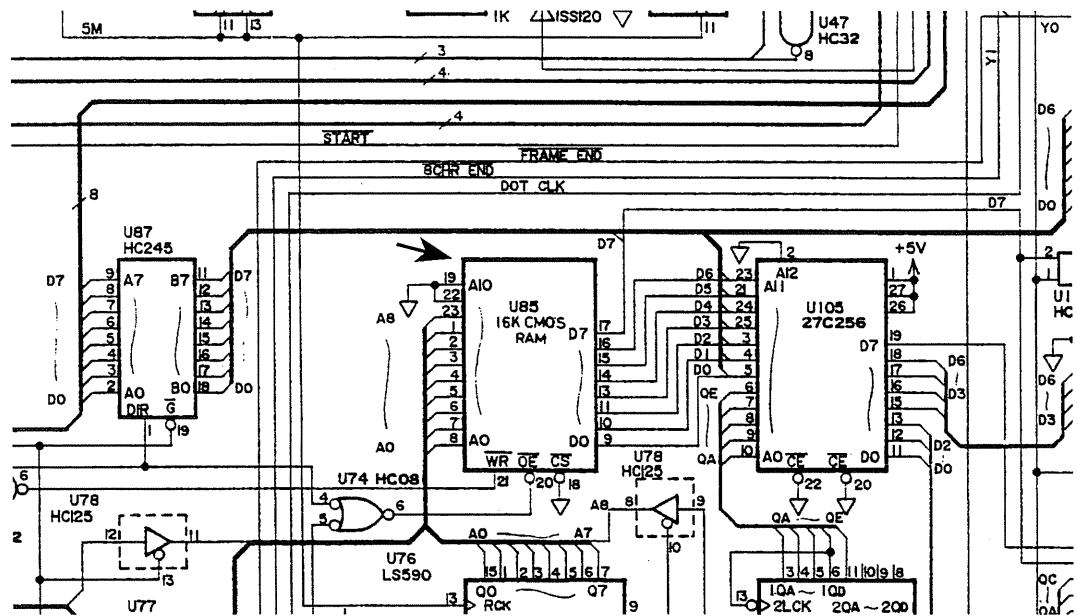
Model: COM7100A/7101A;
COM7100A COM7101A

Change Reference: MC14-16
2 of 2

Manual Part No.: Z1-512-371

6-17 A8 MAIN CPU 2/2

28037-3





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SERVICE MANUAL & GUIDE CHANGES

Model: COM7101A/7100A;
COM7100A COM7101A

Change Reference: MC13-25
1 of 1

Manual Part No.: Z1-512-371

PARTS LIST CHANGE

25-Sep-97 CHG COM7100A

Page 7-68 U012 35-01-0002 Z80 CPU CMOS Z84C0006

25-Sep-97 CHG COM7101A

Page 7-20 U012 35-01-0002 Z80 CPU CMOS Z84C0006



KIKUSUI ELECTRONICS CORP.

SERVICE MANUAL & GUIDE CHANGES

Model: COM7100AChange Reference: MC12-17COM7101A1 of 1 Manual Part No.: Z1-512-371

PARTS LIST CHANGE

18-Mar-97 CHG

COM7101A

Page 7-31	Q6	30-34-9351 XSTR SI N 50V 3A 10W	TOSHIBA	2SC4935-Y
	Q10	30-34-9351 XSTR SI N 50V 3A 10W	TOSHIBA	2SC4935-Y

18-Mar-97 CHG

COM7100A

Page 7-79	Q6	30-34-9351 XSTR SI N 50V 3A 10W	TOSHIBA	2SC4935-Y
	Q10	30-34-9351 XSTR SI N 50V 3A 10W	TOSHIBA	2SC4935-Y



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SERVICE MANUAL & GUIDE CHANGES

Model: COM7100A
COM7101A

Change Reference: MC11-18
1 of 2

Manual Part No.: Z1-512-371

PARTS LIST CHANGE

24-Dec-96 CHG COM7101A

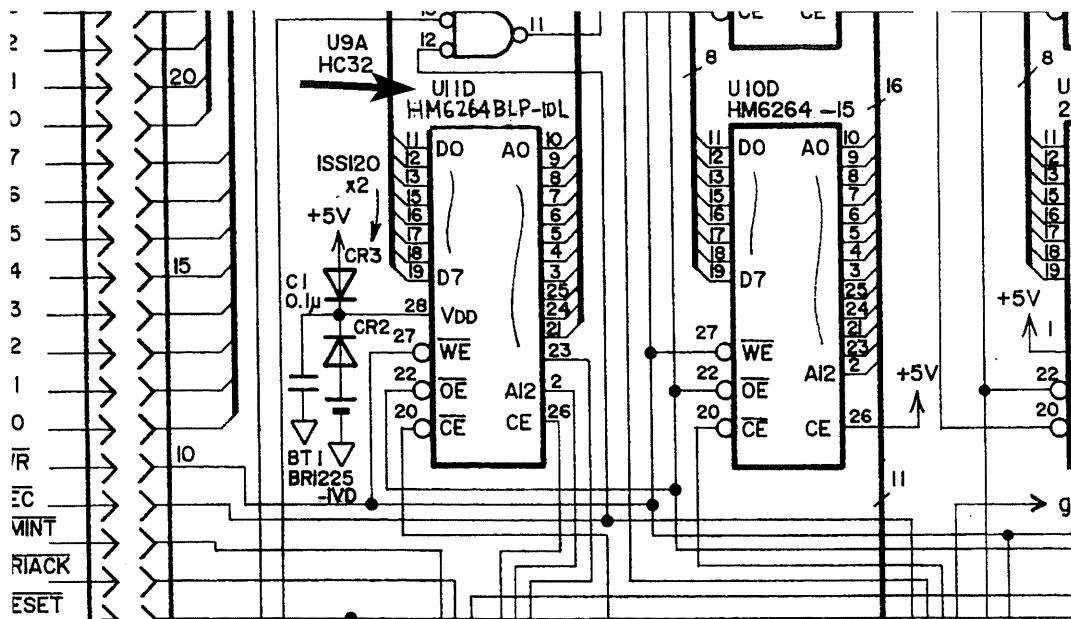
Page 7-35	U11D	35-07-0041	SRAM 8K X 8BIT 100NS CMOS	HITACHI	HM6264BLP
7-48	U6D	35-02-0070	PPI	NEC	UPD71055C
	U6C	35-07-0041	SRAM 8K X 8BIT 100NS CMOS	HITACHI	HM6264BLP

SCHEMATIC CHANGE

24-Dec-96 CHG COM7100A/7101A

Page 6-19 A10 PANEL CONTROLS (1/2)

322465-7



Model: COM7100A
COM7101A

Change Reference: MC11-18
2 of 2

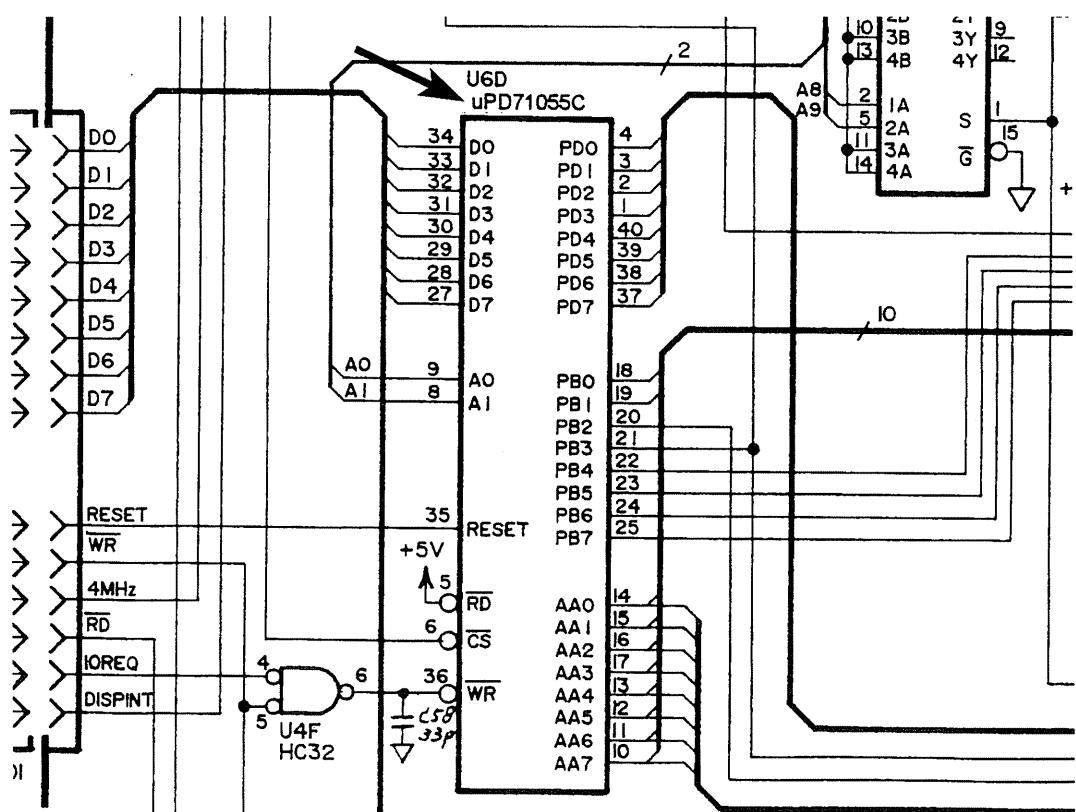
Manual Part No.: Z1-512-371

24-Dec-96 CHG

COM7101A

Page 6-39 A18 STORAGE DISPLAY CONTROL

322470-4





KIKUSUI
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SERVICE MANUAL & GUIDE CHANGES

Model: COM7101A

COM7100A

Change Reference: MC10-16

1 of 1

Manual Part No.: Z1-512-371

PARTS LIST CHANGE

10-Jul-96 CHG COM7101A

Page 7-20	R17	44-05-2050	FXD R-NTWK 3.3K OHM X8	RGLD-8-X
7-34	RA3	44-05-2050	FXD R-NTWK 3.3K OHM X8	RGLD-8-X
	RA4	44-05-2050	FXD R-NTWK 3.3K OHM X8	RGLD-8-X

23-Jul-96 CHG COM7101A

Page 7-36	C54	53-20-1040	FXD ELCTLT 100 UF 10V	KME10VB
	C60	53-20-1040	FXD ELCTLT 100 UF 10V	KME10VB

10-Jul-96 CHG COM7100A

Page 7-68	R17	44-05-2050	FXD R-NTWK 3.3K OHM X8	RGLD-8-X
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SERVICE MANUAL & GUIDE CHANGES

Model: COM7101A

Change Reference: MC9-4

1 of 1

Manual Part No.: Z1-512-371

PARTS LIST CHANGE

13-Apr-95 CHG

COM7101A

Page 7-43	U8A	35-07-0120	SRAM 2K X 8BIT 35NS	SONY	CXK5814P35L
	U8C	35-07-0120	SRAM 2K X 8BIT 35NS	SONY	CXK5814P35L

24-Apr-95 CHG

COM7101A

Page 7-7	CV1	57-10-1200	VAR CER 3.3-18 PF	ECV-1ZW
	CV2	57-10-1200	VAR CER 3.3-18 PF	ECV-1ZW
	CV3	57-10-1200	VAR CER 3.3-18 PF	ECV-1ZW
	CV4	57-10-1200	VAR CER 3.3-18 PF	ECV-1ZW
	CV5	57-10-1200	VAR CER 3.3-18 PF	ECV-1ZW
	CV6	57-10-1200	VAR CER 3.3-18 PF	ECV-1ZW
	CV7	57-10-1200	VAR CER 3.3-18 PF	ECV-1ZW
	CV8	57-10-1200	VAR CER 3.3-18 PF	ECV-1ZW
	CV9	57-10-1200	VAR CER 3.3-18 PF	ECV-1ZW



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SERVICE MANUAL & GUIDE CHANGES

Model: COM7100A

Change Reference: MC8-36

COM7101A

1 of 3

Manual Part No.: Z1-512-371

PARTS LIST CHANGE

<u>1-Jul-93</u>	<u>ADD</u>	COM7100A		
Page 7-81		83-20-3200 AC INLET 250V 10A		1060.1
<u>7-Oct-93</u>	<u>CHG</u>	COM7100A		
Page 7-57	R48	38-00-0081 THERMISTOR 2500 OHM	HOKURIKU	112-252-2
<u>28-Jan-94</u>	<u>CHG</u>	COM7100A		
Page 7-78	CR40	32-50-0160 DIO 40V 10A SCHOTTKY	SHINDENG.	D10SC4M
<u>6-Dec-94</u>	<u>CHG</u>	COM7100A		
Page 7-61	C36	52-10-0010 FXD CER 330 PF 50V		DD107-63SL
<u>23-Jan-95</u>	<u>CHG</u>	COM7100A		
Page 7-62	R26	38-00-0071 THERMISTOR 200 OHM	HOKURIKU	112-201-2
7-62	R70	38-00-0071 THERMISTOR 200 OHM	HOKURIKU	112-201-2
<u>1-Jul-93</u>	<u>ADD</u>	COM7101A		
Page 7-49		83-20-3200 AC INLET 250V 10A		1060.1
<u>7-Oct-93</u>	<u>CHG</u>	COM7101A		
Page 7-38	R86	38-00-0081 THERMISTOR 2500 OHM	HOKURIKU	112-252-2
7-9	R48	38-00-0081 THERMISTOR 2500 OHM	HOKURIKU	112-252-2
<u>21-Jan-94</u>	<u>ADD</u>	COM7101A		
Page 7-46	C56	52-06-2165 FXD CER 33 PF 10% 500V	ECC-F1H	
7-46	C58	52-06-2165 FXD CER 33 PF 10% 500V	ECC-F1H	
<u>28-Jan-94</u>	<u>CHG</u>	COM7101A		
Page 7-30	CR41	32-50-0160 DIO 40V 10A SCHOTTKY	SHINDENG.	D10SC4M

Model: COM7100A
COM7101A

Change Reference: MC8-36
2 of 3

Manual Part No.: Z1-512-371

30-Mar-94	ADD	COM7101A	
Page	7-41	C60	52-01-2305 FXD CER 470 PF 10% 50V ECK-F1H
	7-41	C61	52-01-2305 FXD CER 470 PF 10% 50V ECK-F1H
Page	7-42	R65	40-16-1121 FXD C FLM 120 OHM 5% 1/6W RD1/6FS
	7-42	R66	40-16-1121 FXD C FLM 120 OHM 5% 1/6W RD1/6FS
30-Mar-94	RMV	COM7101A	
Page	7-41	C60	52-01-2305 FXD CER 470 PF 10% 50V ECK-F1H
	7-41	C61	52-01-2305 FXD CER 470 PF 10% 50V ECK-F1H
6-Dec-94	CHG	COM7101A	
Page	7-13	C36	52-10-0010 FXD CER 330 PF 50V DD107-63SL
Page	7-46	C54	52-10-0010 FXD CER 330 PF 50V DD107-63SL
	7-46	C54	52-10-0010 FXD CER 330 PF 50V DD107-63SL
23-Jan-95	CHG	COM7101A	
Page	7-14	R26	38-00-0071 THERMISTOR 200 OHM HOKURIKU 112-201-2
	7-14	R70	38-00-0071 THERMISTOR 200 OHM HOKURIKU 112-201-2
Page	7-42	R59	38-00-0071 THERMISTOR 200 OHM HOKURIKU 112-201-2
	7-42	R60	38-00-0071 THERMISTOR 200 OHM HOKURIKU 112-201-2
13-Apr-95	CHG	COM7101A	
Page	7-43	U8A	35-07-0120 SRAM 2K X 8BIT 35NS SONY CXK5814P35L
	7-43	U8C	35-07-0120 SRAM 2K X 8BIT 35NS SONY CXK5814P35L
21-Apr-95	CHG	COM7101A	
Page	7-7	CV1	57-10-1200 VAR CER 3.3-18 PF ECV-1ZW
	7-7	CV2	57-10-1200 VAR CER 3.3-18 PF ECV-1ZW
	7-7	CV3	57-10-1200 VAR CER 3.3-18 PF ECV-1ZW
	7-7	CV4	57-10-1200 VAR CER 3.3-18 PF ECV-1ZW
	7-7	CV5	57-10-1200 VAR CER 3.3-18 PF ECV-1ZW
	7-7	CV6	57-10-1200 VAR CER 3.3-18 PF ECV-1ZW
	7-7	CV7	57-10-1200 VAR CER 3.3-18 PF ECV-1ZW
	7-7	CV8	57-10-1200 VAR CER 3.3-18 PF ECV-1ZW
	7-7	CV9	57-10-1200 VAR CER 3.3-18 PF ECV-1ZW

Model: COM7100A
COM7101A

Change Reference: MC8-36
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Manual Part No.: Z1-512-371

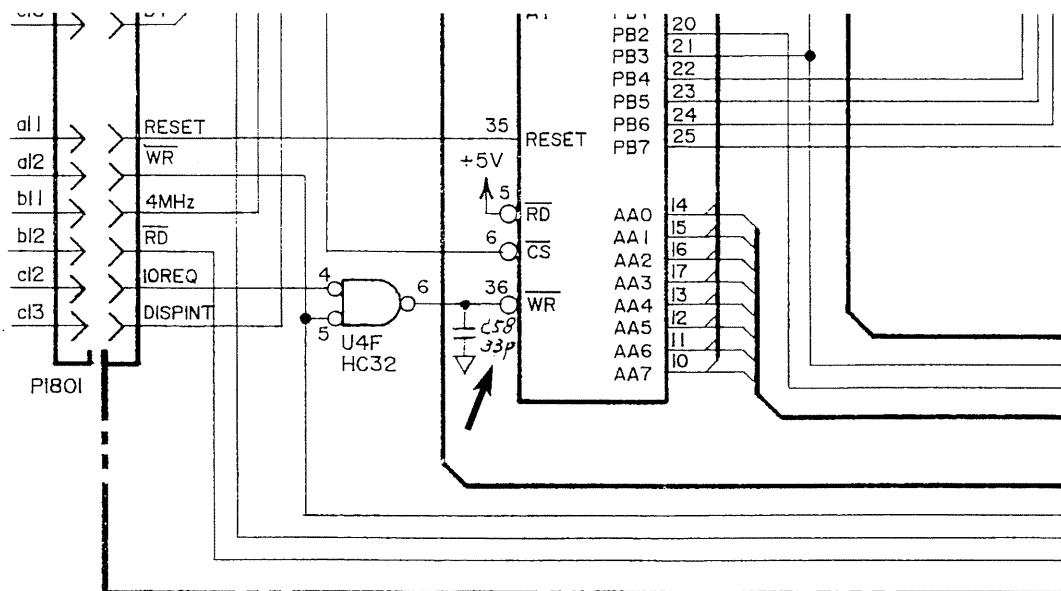
SCHEMATIC CHANGE

21-Jan-94 CHG

COM7101A

Page 6-39 A18 STORAGE DISPLAY CONTROL (1/2)

322470-3





SERVICE MANUAL & GUIDE CHANGES

Model: COM7101A
COM7100A

Change Reference: MC7-4
1 of 4

Date: SEP 24th '92

Manual Part No.: Z1-512-371

PARTS LIST CHANGE

Model	COM7101A	ADD	
Page	7-5	C37	52-01-2345 FXD CER 1000 PF 10% 50V ECK-F1H
Page	7-9	R52	40-16-2331 FXD C FLM 3.3K OHM 5% 1/6W RD1/6FS
Page	7-13	C31	52-06-2184 FXD CER 47 PF 10% 50V DD106 CH
		C40	52-06-2165 FXD CER 33 PF 10% 500V ECC-F1H
Page	7-37	C78	52-06-2051 FXD CER 5 PF 10% 50V ECC-F1H
		C79	52-06-2051 FXD CER 5 PF 10% 50V ECC-F1H
		C80	52-06-2051 FXD CER 5 PF 10% 50V ECC-F1H
Page	7-41	C80	52-06-2184 FXD CER 47 PF 10% 50V DD106 CH
		C81	52-06-2184 FXD CER 47 PF 10% 50V DD106 CH
		C82	52-06-2051 FXD CER 5 PF 10% 50V ECC-F1H
		C83	52-06-2051 FXD CER 5 PF 10% 50V ECC-F1H
Page	7-46	C56	52-01-2385 FXD CER 2200 PF 10% 50V ECK-F1H
		C57	52-01-2385 FXD CER 2200 PF 10% 50V ECK-F1H
Page	7-47	R61	40-16-3561 FXD C FLM 56K OHM 5% 1/6W RD1/6FS
Page	7-49	R3	52-06-2030 FXD CER 3 PF 10% 50V ECC-F1H
Model	COM7101A	CHG	
Page	7-5	C23	52-01-2345 FXD CER 1000 PF 10% 50V ECK-F1H
Page	7-11	U20	36-0010-82 HIC (H8 VERT MODE SWITCH) KIKUSUI B0529/04
Page	7-13	CV3	57-10-1203 VAR CER 5-20 PF CTZ54E
Page	7-20	U13	SA-0008-03 * PROGRAMMED ROM COM7101A MAIN
Page	7-35	U7D	SA-0016-03 * PROGRAMMED ROM COM7XX1A SUB
		U8D	SA-0018-03 * PROGRAMMED ROM COM7XX1A STORAGE
Page	7-36	C53	52-06-2245 FXD CER 150 PF 10% 50V DD109 CH
		C61	52-06-2245 FXD CER 150 PF 10% 50V DD109 CH
Page	7-37	C68	52-06-2125 FXD CER 15 PF 10% 500V ECC-F1H
		C69	52-06-2125 FXD CER 15 PF 10% 500V ECC-F1H
		C72	52-06-2194 FXD CER 56 PF 5% 50V DD106CH560
		C73	52-06-2245 FXD CER 150 PF 10% 50V DD109 CH
Page	7-38	R51	42-80-0681 FXD M FLM 68 OHM 1% 1/6W RN1/6FS
		R52	42-80-0681 FXD M FLM 68 OHM 1% 1/6W RN1/6FS
		R53	42-80-0681 FXD M FLM 68 OHM 1% 1/6W RN1/6FS
		R54	42-80-0681 FXD M FLM 68 OHM 1% 1/6W RN1/6FS
		R72	40-16-2471 FXD C FLM 4.7K OHM 5% 1/6W RD1/6FS
		R76	40-16-2471 FXD C FLM 4.7K OHM 5% 1/6W RD1/6FS
		R84	40-16-2101 FXD C FLM 1K OHM 5% 1/6W RD1/6FS
		R89	40-16-2121 FXD C FLM 1.2K OHM 5% 1/6W RD1/6FS
		R90	40-16-2121 FXD C FLM 1.2K OHM 5% 1/6W RD1/6FS
Page	7-41	C68	52-06-2184 FXD CER 47 PF 10% 50V DD106 CH
		C69	52-06-2184 FXD CER 47 PF 10% 50V DD106 CH

Model : COM7101A
COM7100A

Change Reference : MC7-4
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Date : SEP 24th '92

Manual Part No. : Z1-512-371

Model	COM7101A	CHG	
Page	7-46	C54	52-06-2285 FXD CER 330 PF 10% 50V
Page	7-47	R24	40-16-2331 FXD C FLM 3.3K OHM 5% 1/6W
		R29	40-16-1561 FXD C FLM 560 OHM 5% 1/6W
Page	7-49	C2	52-06-2030 FXD CER 3 PF 10% 50V

Model	COM7101A	RMV
Page	7-7	C125
		C126
Page	7-13	C39
Page	7-15	C32
Page	7-16	RV6
Page	7-36	C41
		C42
		C74
		C75
		C77
Page	7-38	R37
		R38
		R91
		R92
		R97
Page	7-41	C70
		C71
Page	7-49	C2
		C3

Model	COM7100A	ADD	
Page	7-53	C37	52-01-2345 FXD CER 1000 PF 10% 50V
Page	7-57	R52	40-16-2331 FXD C FLM 3.3K OHM 5% 1/6W
Page	7-61	C31	52-06-2184 FXD CER 47 PF 10% 50V
		C40	52-06-2165 FXD CER 33 PF 10% 500V

Model	COM7100A	CHG	
Page	7-59	U20	36-0010-82 HIC (H8 VERT MODE SWITCH) KIKUSUI B0529/04
Page	7-61	CV3	57-10-1203 VAR CER 5-20 PF CTZ54E
Page	7-68	U13	SA-0005-03 * PROGRAMMED ROM COM7100A MAIN
Page	7-81	C2	52-06-2030 FXD CER 3 PF 10% 50V

Model	COM7100A	RMV
Page	7-55	C125
		C126
Page	7-61	C39
Page	7-63	C32
Page	7-64	RV6
Page	7-81	C2
		C3

Model : COM7101A

Change Reference : MC7-4

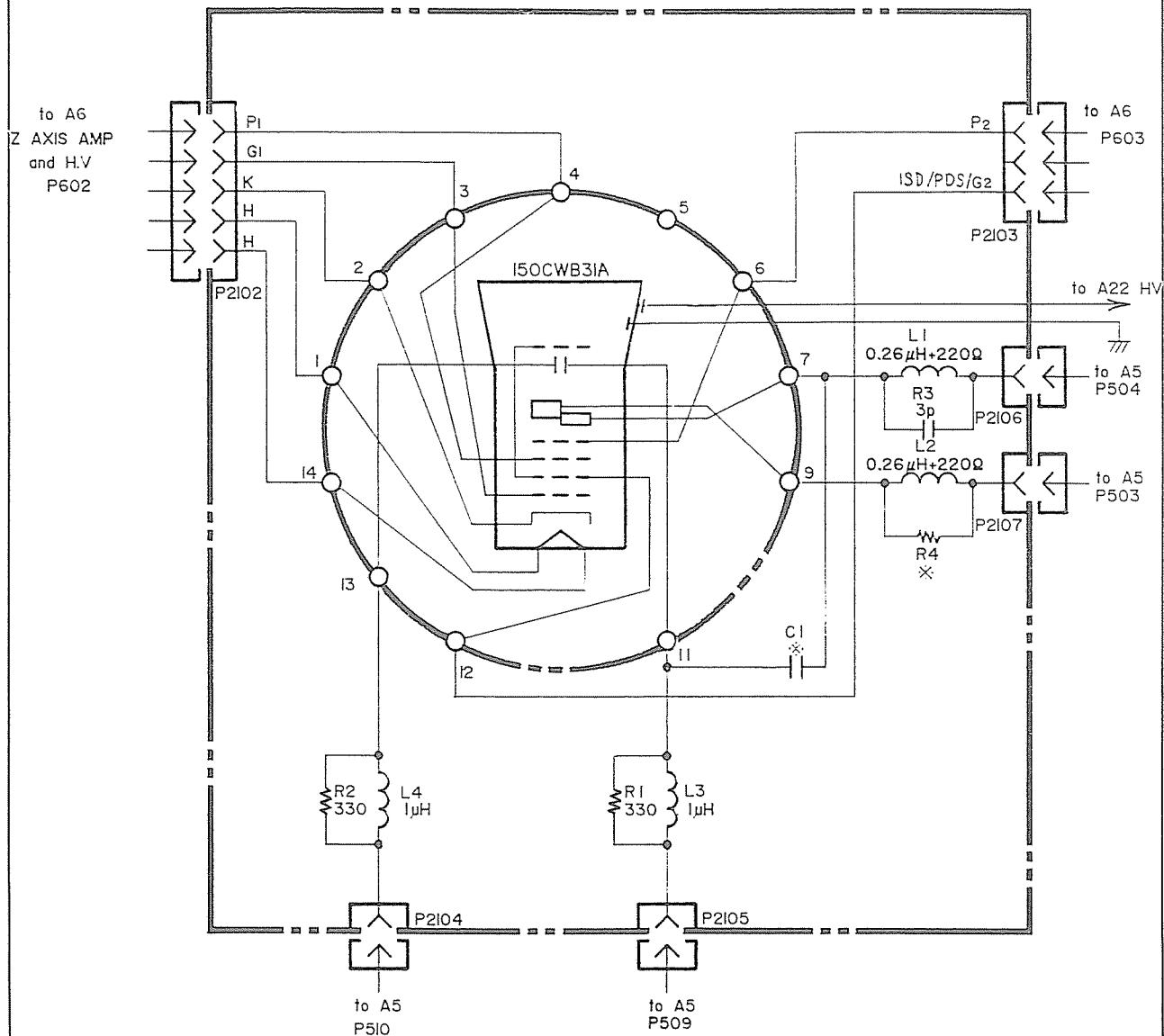
Date : SEP 24th '92

Manual Part No.: Z1-512-371

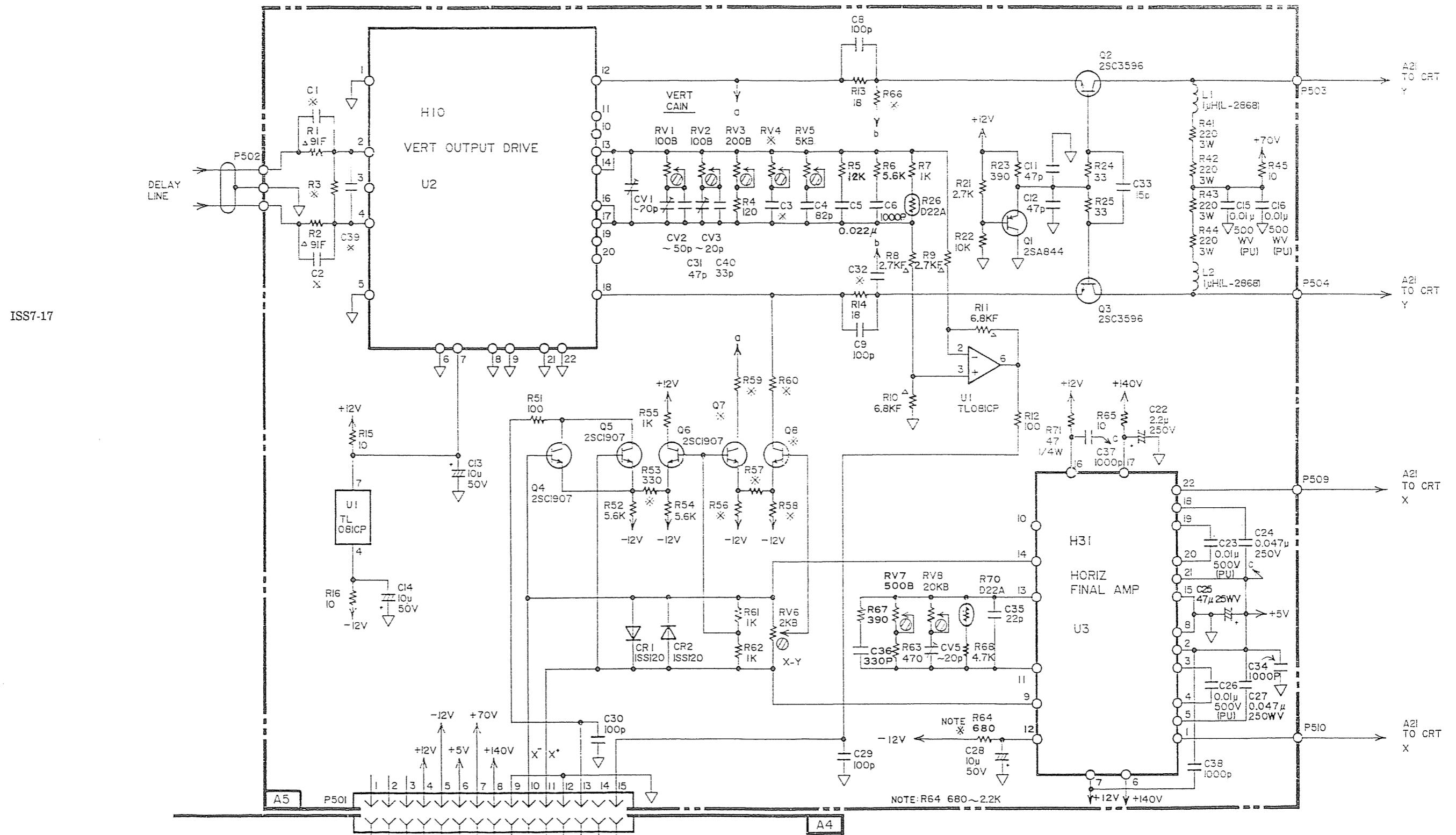
SCHEMATIC CHANGE

Model COM7101A/COM7100A **CHG**
Page 6-9 **A5 VERT OUTPUT & HORIZ AMPL** ◊ **3280293**
See page 4 of 4.

Model COM7101A/COM7100A **CHG**
Page 6-27 A21 CRT SOCKET **4227136**



* = PART OF ETCHED CIRCUIT BOARD



COM7101A/COM7100A
A5 VERT OUTPUT & HORIZ AMPL

(328029-3)

Change Ref.: MC7-4 4 of 4

Model: COM7100A
COM7101A

Change Reference: MC910717-3
1 of 8

Date: JUN 11st '91

Manual Part No.: Z1-512-371

PARTS LIST CHANGE

Model	COM7100A	- ADD	
Page 7-55	C148	52-06-2125	FXD CER 15pF 10% 500V
Page 7-58	R154	40-16-0471	FXD C FLM 47 ohm 5% 1/6W
	R155	40-16-0471	FXD C FLM 47 ohm 5% 1/6W
Page 7-61	C39	52-06-2051	FXD CER 5pF 10% 50V
Page 7-81	C2	52-06-2010	FXD CER 1pF 10% 50V TYPE1
	C3	52-06-2010	FXD CER 1pF 10% 50V TYPE1
Model	COM7100A	CHG	
Page 7-55	C119	52-06-2125	FXD CER 15pF 10% 500V
	C125	52-06-2102	FXD CER 10pF 10% 50V
	C126	52-06-2102	FXD CER 10pF 10% 50V
Page 7-56	R14	42-80-1221	FXD M FLM 220 ohm 1% 1/6W
	R15	42-80-1221	FXD M FLM 220 ohm 1% 1/6W
	R18	42-80-1221	FXD M FLM 220 ohm 1% 1/6W
	R19	42-80-1221	FXD M FLM 220 ohm 1% 1/6W
Page 7-61	C33	52-06-2125	FXD CER 15pF 10% 500V
Model	COM7100A	RMV	
Page 7-61	C3		
	R3		
Page 7-62	RV4		
Page 7-81	R4		
Model	COM7101A	ADD	
Page 7-7	C148	52-06-2125	FXD CER 15pF 10% 500V
Page 7-10	R154	40-16-0471	FXD C FLM 47 ohm 5% 1/6W
	R155	40-16-0471	FXD C FLM 47 ohm 5% 1/6W
Page 7-13	C39	52-06-2051	FXD CER 5pF 10% 50V
			ECC-F1H
			RD1/6FS
			RD1/6FS
			ECC-F1H

Model: COM7100A
COM7101A

Change Reference: MC910717-3

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Date: JUN 11st '91

Manual Part No.: Z1-512-371

Model	COM7101A	ADD	
Page 7-37	C71	52-06-2102	FXD CER 10p 10% 50V
	C74	52-06-2125	FXD CER 15pF 10% 500V
	C75	52-06-2125	FXD CER 15pF 10% 500V
	C76	52-06-2051	FXD CER 5pF 10% 50V
	C77	52-06-2125	FXD CER 15pF 10% 500V
Page 7-38	R91	40-16-0221	FXD C FLM 22 ohm 5% 1/6W
	R92	40-16-0221	FXD C FLM 22 ohm 5% 1/6W
	R93	40-16-2101	FXD C FLM 1k ohm 5% 1/6W
	R94	40-16-2101	FXD C FLM 1k ohm 5% 1/6W
	R95	40-16-2101	FXD C FLM 1k ohm 5% 1/6W
	R96	40-16-2101	FXD C FLM 1k ohm 5% 1/6W
	R97	40-16-0221	FXD C FLM 22 ohm 5% 1/6W
Page 7-41	C60	52-01-2305	FXD CER 470pF 10% 50V
	C61	52-01-2305	FXD CER 470pF 10% 50V
	C68	52-06-2145	FXD CER 22pF 10% 500V
	C69	52-06-2145	FXD CER 22pF 10% 500V
	C70	52-06-2145	FXD CER 22pF 10% 500V
Page 7-49	C2	52-06-2010	FXD CER 1pF 10% 50V TYPE1
	C3	52-06-2010	FXD CER 1pF 10% 50V TYPE1
Model	COM7101A	CHG	
Page 7-7	C119	52-06-2125	FXD CER 15pF 10% 500V
	C125	52-06-2102	FXD CER 10pF 10% 50V
	C126	52-06-2102	FXD CER 10pF 10% 50V
Page 7-8	R14	42-80-1221	FXD M FLM 220 ohm 1% 1/6W
	R15	42-80-1221	FXD M FLM 220 ohm 1% 1/6W
	R18	42-80-1221	FXD M FLM 220 ohm 1% 1/6W
	R19	42-80-1221	FXD M FLM 220 ohm 1% 1/6W
Page 7-13	C33	52-06-2125	FXD CER 15pF 10% 500V
Page 7-37	C68	52-06-2102	FXD CER 10pF 10% 50V
	C69	52-06-2102	FXD CER 10pF 10% 50V
Page 7-38	R69	40-16-1151	FXD C FLM 150 ohm 5% 1/6W
Page 7-41	R3	40-16-0001	JUMPER PART
	R12	40-16-0001	JUMPER PART

Model : COM7100A
COM7101A

Change Reference : MC910717-3
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Date : JUN 11st '91

Manual Part No. : Z1-512-371

Model	COM7101A	RMV
Page 7-13	C3	
Page 7-14	RV4	
Page 7-41	R3	
Page 7-49	R4	

CORRECTION

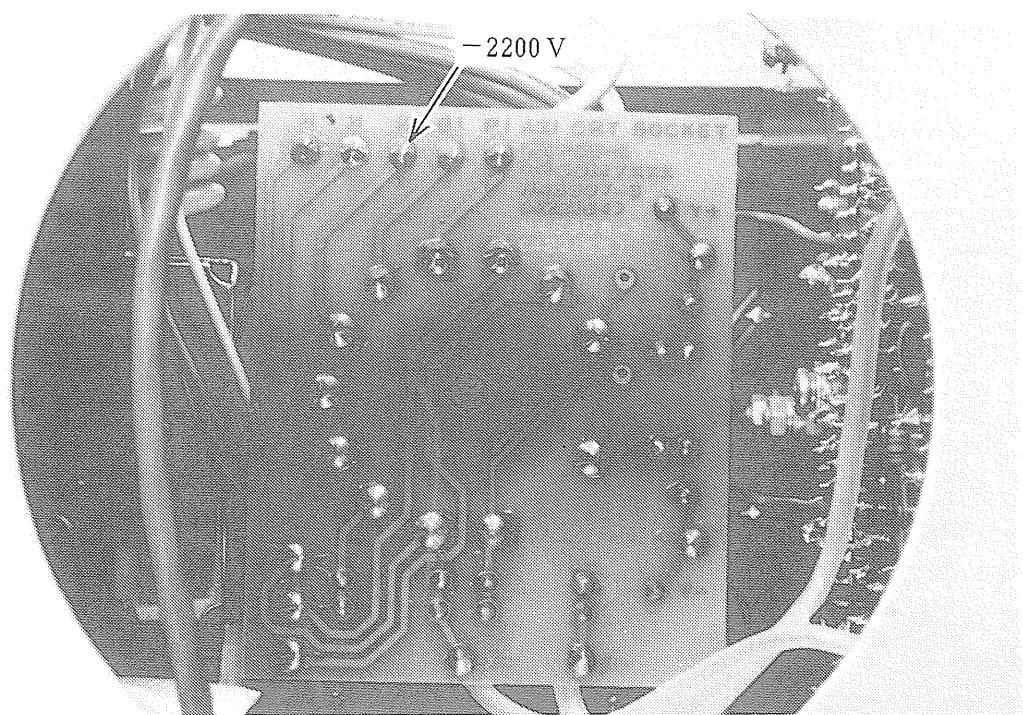
This is same as the information (Change Reference No. MC88110201-2).

Model COM7100A/01A

Page 4-16 Table 4-8 Range of each internal power supply voltage

Power supply voltage	Voltage range	Remark
-2200V	-2150V ~ -2250V	

Page 4-17 Fig.4-8 Checking position of -2200V



Date: JUN 11st '91

Manual Part No.: Z1-512-371

SCHEMATIC CHANGE

Model

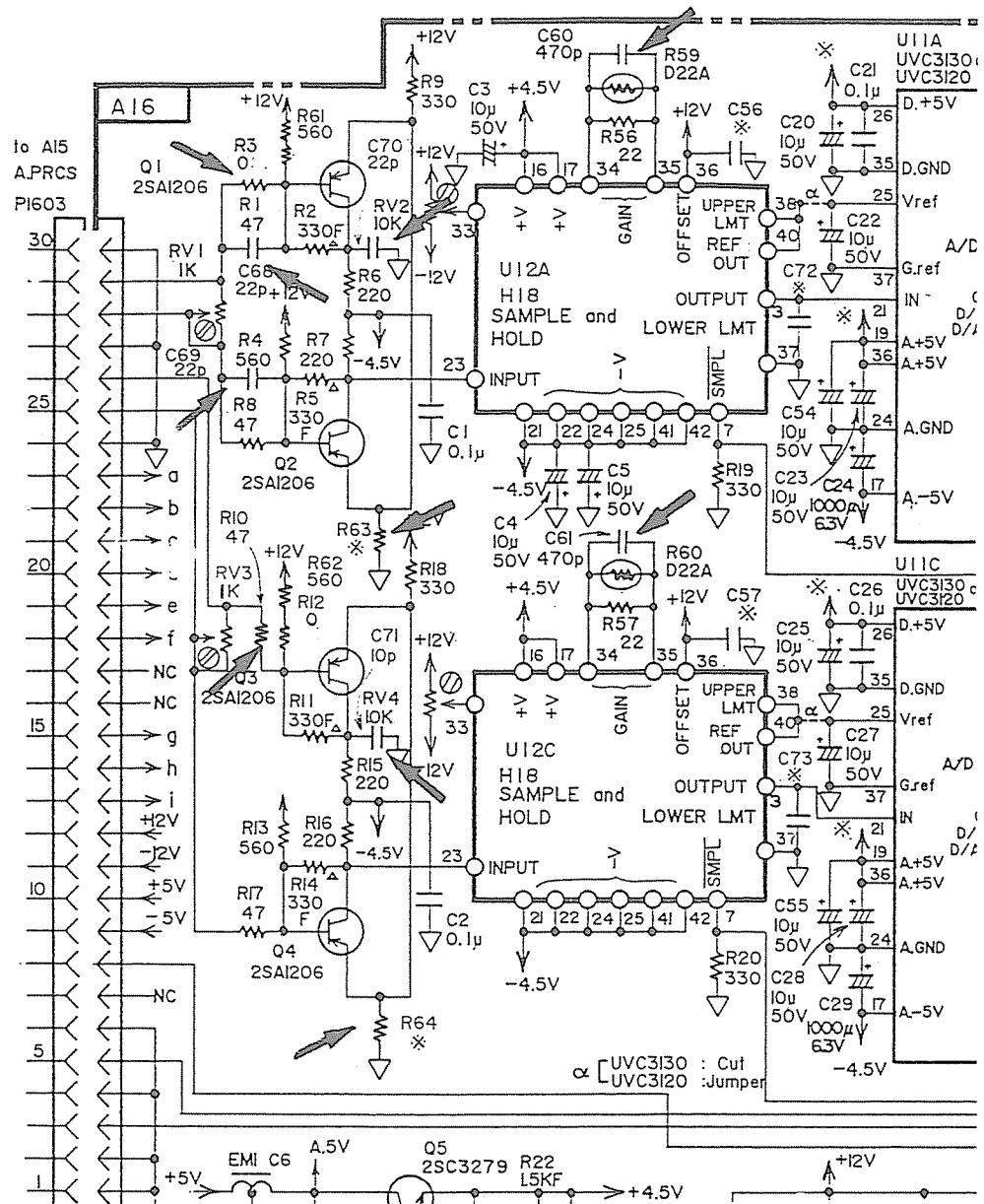
COM7101A

CHG

Page 6-35

A part of A16 A/D CONVERTER & MEMORY

326671-4



Model : COM7100A
COM7101A

Change Reference : MC910717-3
5 of 8

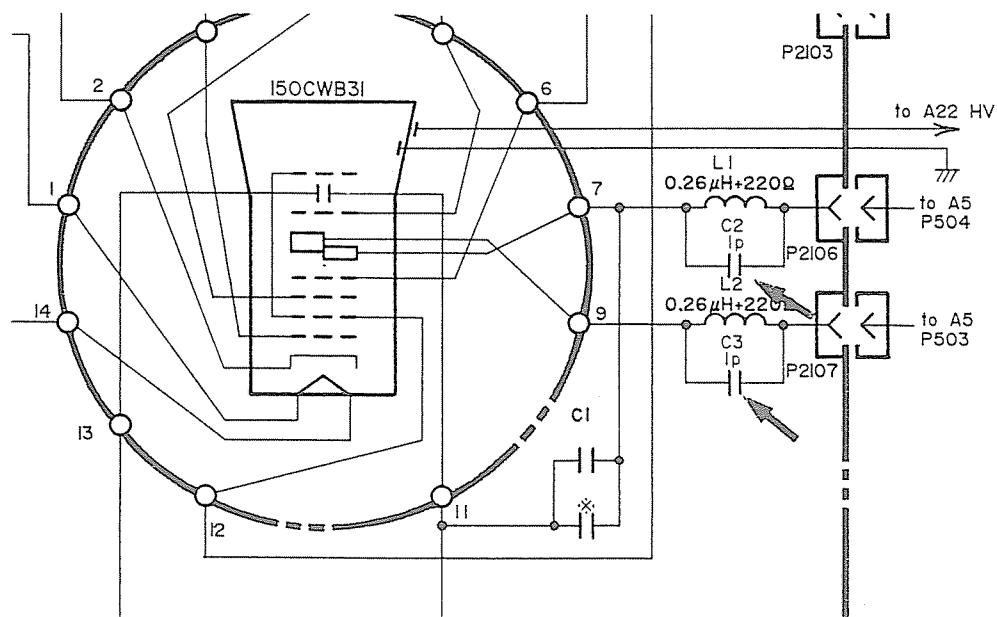
Date : JUN 11st '91

Manual Part No. : Z1-512-371

Model COM7100A/01A CHG

Page 6-27 A part of A21 CRT SOCKET

422713-3



Model COM7101A CHG

Page 6-33 A15 SIGNAL PICKOFF FOR A/D CONV,CH DIVIDER & PEAK HOLD

322467-7

Model COM7100A/01A CHG

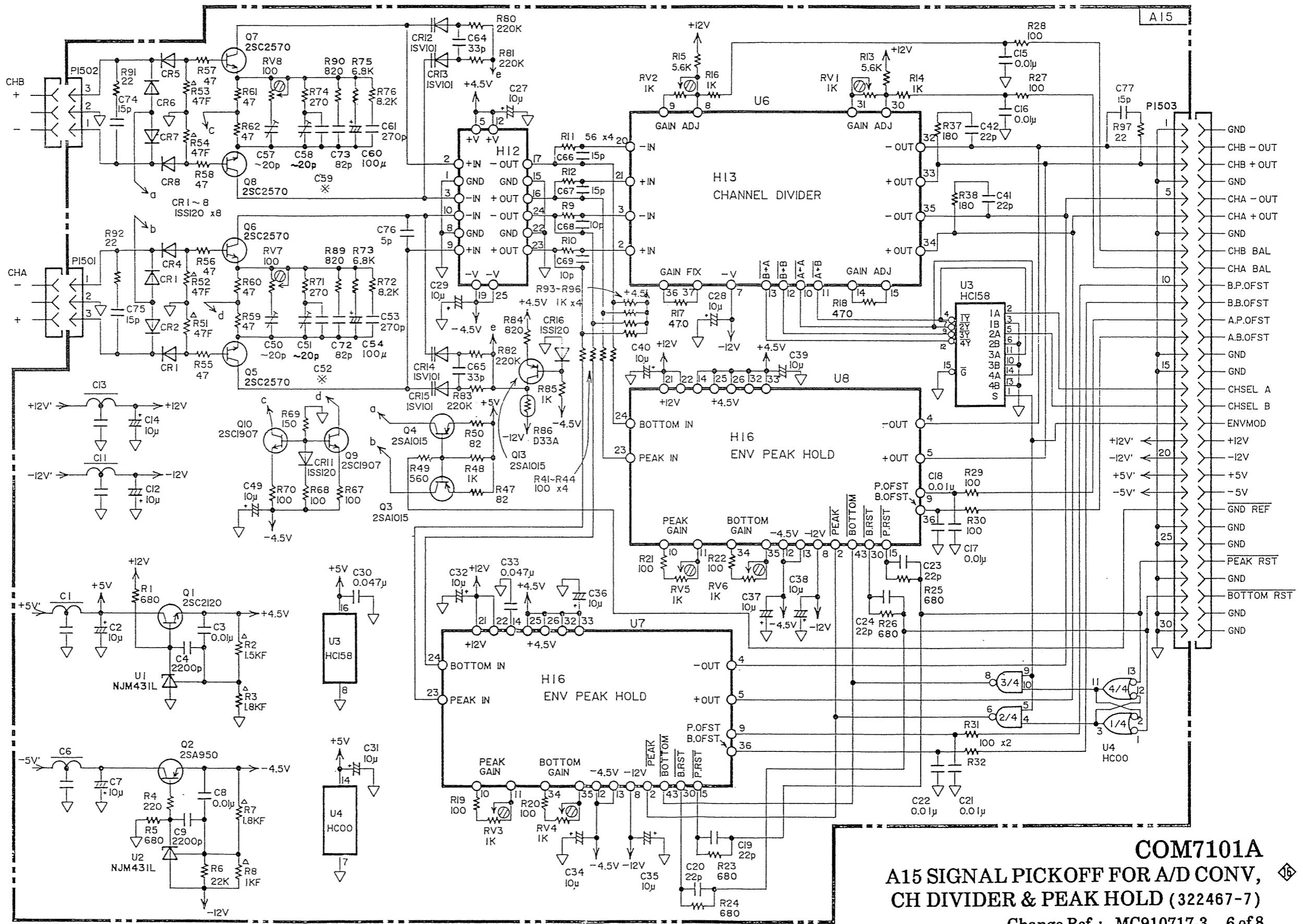
Page 6-7 A4 VERTICAL PREAMPLIFIER

26317-6

Page 6-9 A5 VERT OUTPUT AMPL & HORIZ AMPL

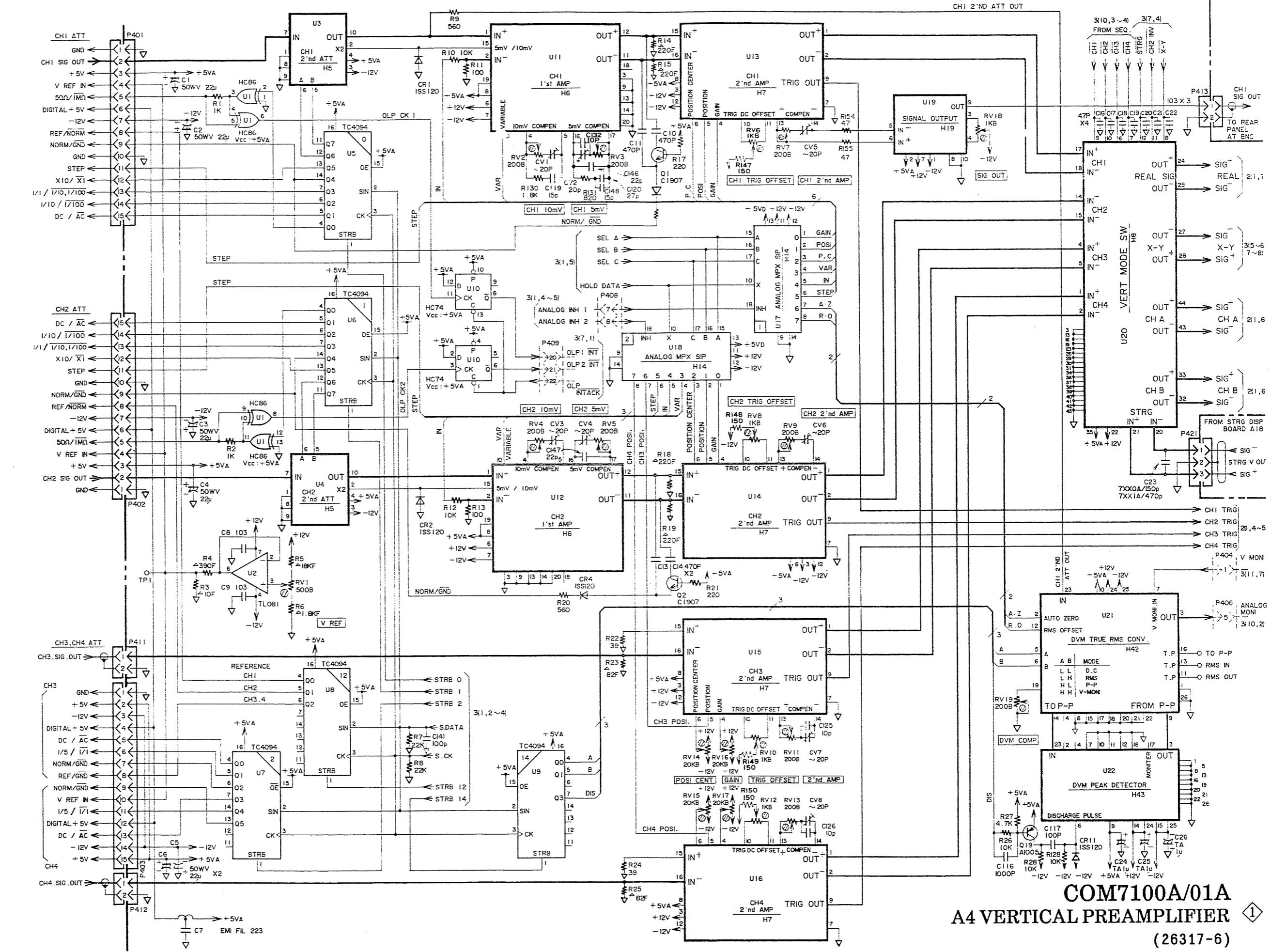
328029-1

IS5-20



COM7101A
A15 SIGNAL PICKOFF FOR A/D CONV,
CH DIVIDER & PEAK HOLD (322467-7)

Change Ref.: MC910717-3 6 of 8

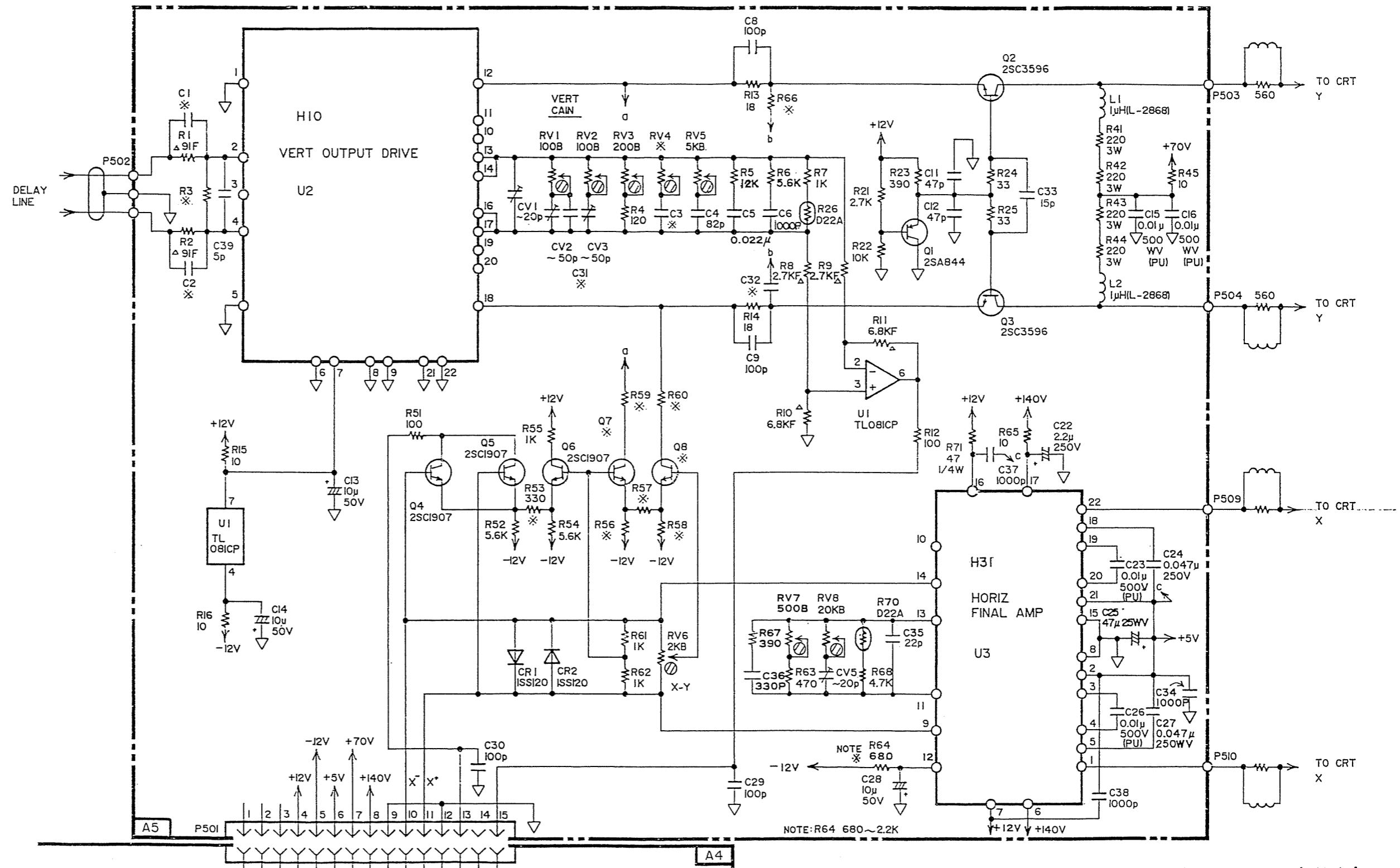


COM7100A/01A
A4 VERTICAL PREAMPLIFIER

[26317-6)

Change Ref.: MC910717-3 7 of 8

SS5-22



COM7100A/01A
A5 VERT OUTPUT AMPL & HORIZ AMP

(328029-1)

Change Ref.: MC910717-3 8 of 8

Model: COM7101A
COM7100AChange Reference: MC910403-2
1 of 4

Date: JAN 17th 1991

Manual Part No.: Z1-512-371

◆◆ PARTS LIST CHANGE ◆◆

◆ MODEL: COM7101A

ADD:

PAGE 7-7	C144	52-06-2051	FXD CER 5PF 10% 50V	ECC-F1H
	C145	52-06-2051	FXD CER 5PF 10% 50V	ECC-F1H
	C146	52-06-2145	FXD CER 22PF 10% 500V	ECC-F1H
	C147	52-06-2145	FXD CER 22PF 10% 500V	ECC-F1H

CHG:

PAGE 7-7	C120	52-06-2155	FXD CER 27P 10% 50V	ECC-F1H
PAGE 7-10	R130	40-16-2181	FXD C FLM 1.8K OHM 5% 1/6W	RD1/6FS
	R131	40-16-1821	FXD C FLM 820 OHM 5% 1/6W	RD1/6FS
PAGE 7-17	DS1	23-44-0000	LAMP FILAMENT 14V 80MA	BQ041-32503A
	DS3	23-44-0000	LAMP FILAMENT 14V 80MA	BQ041-32503A

RMV:

PAGE 7-17 DS2

◆ MODEL: COM7100A

ADD:

PAGE 7-55	C144	52-06-2051	FXD CER 5PF 10% 50V	ECC-F1H
	C145	52-06-2051	FXD CER 5PF 10% 50V	ECC-F1H
	C146	52-06-2145	FXD CER 22PF 10% 500V	ECC-F1H
	C147	52-06-2145	FXD CER 22PF 10% 500V	ECC-F1H

CHG:

PAGE 7-55	C120	52-06-2155	FXD CER 27P 10% 50V	ECC-F1H
PAGE 7-58	R130	40-16-2181	FXD C FLM 1.8K OHM 5% 1/6W	RD1/6FS
	R131	40-16-1821	FXD C FLM 820 OHM 5% 1/6W	RD1/6FS
PAGE 7-65	DS1	23-44-0000	LAMP FILAMENT 14V 80MA	BQ041-32503A
	DS3	23-44-0000	LAMP FILAMENT 14V 80MA	BQ041-32503A

RMV:

PAGE 7-65 DS2

Date: JAN 17th 1991

Manual Part No.: Z1-512-371

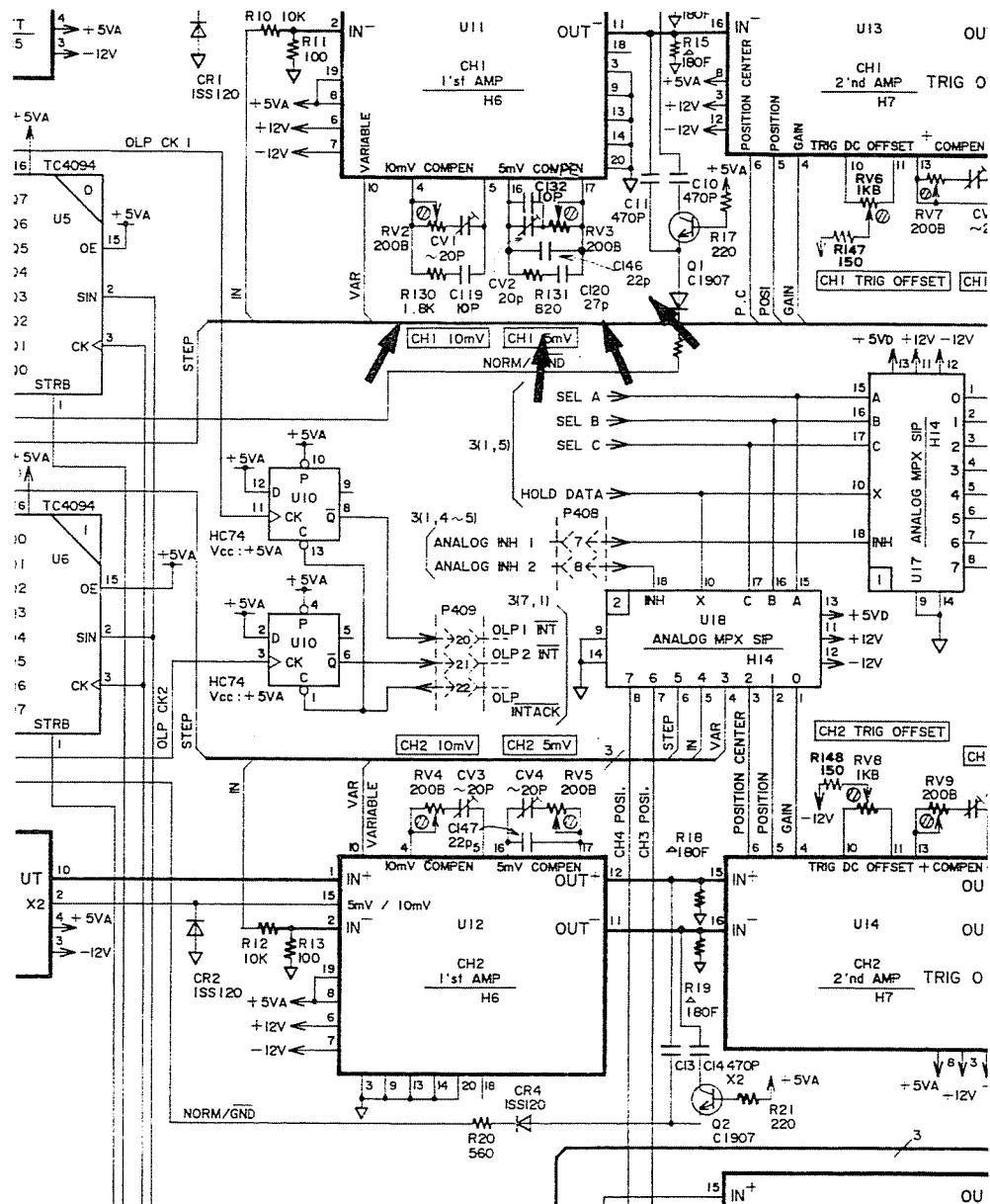
◆◆ SCHEMATIC CHANGE ◆◆

◆ MODEL: COM7101A & COM7100A

CHG:

PAGE 6-3 A part of A4 VERTICAL PREAMPLIFIER <1>

26317-5



Date: JAN 17th 1991

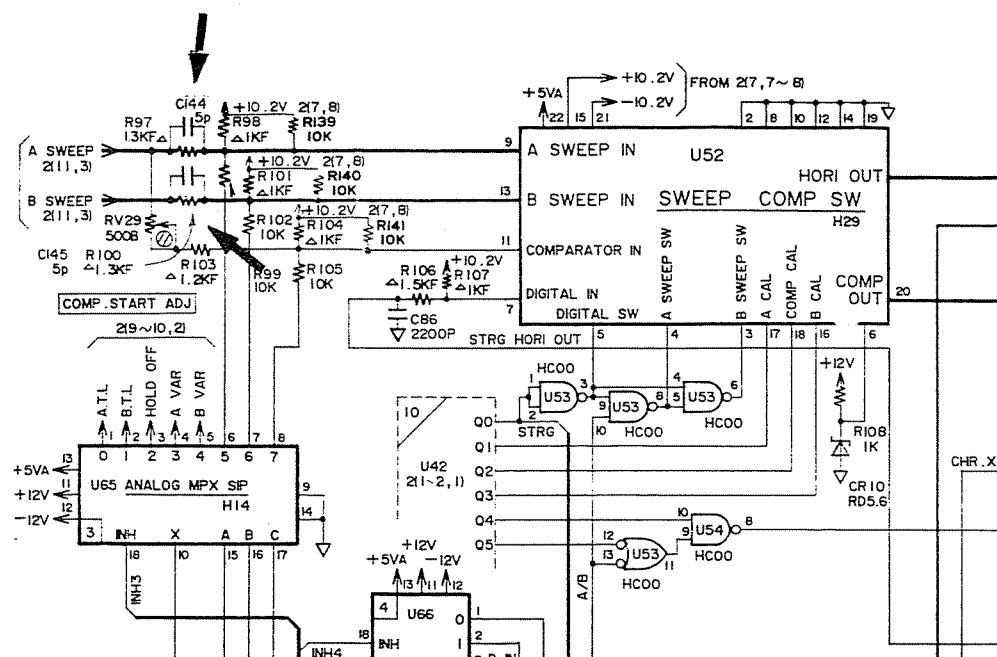
Manual Part No.: Z1-512-371

◆ MODEL: COM7101A & COM7100A

CHG:

PAGE 6-7 A part of A4 HORIZONTAL SWITCH & Z AXIS CONTROL <3>

26319-5



Date: JAN 17th 1991

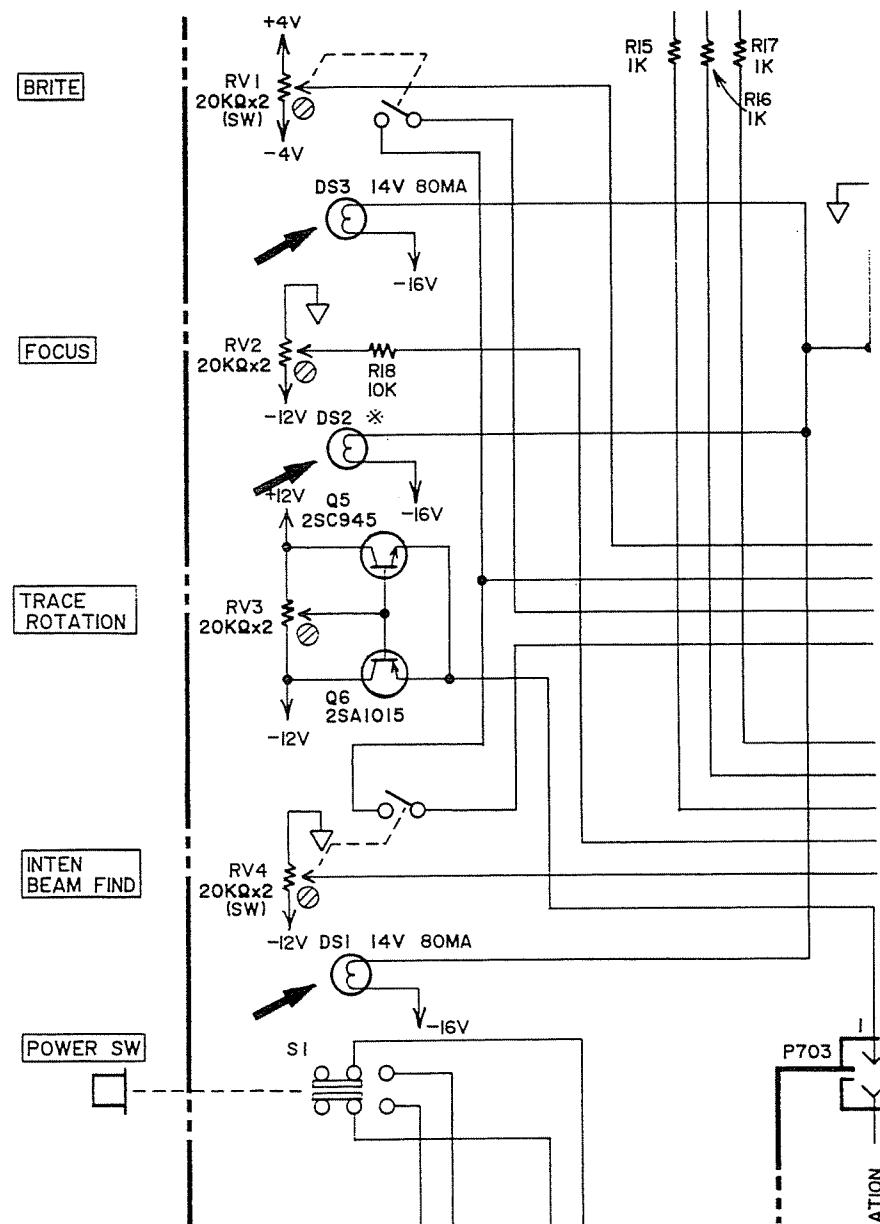
Manual Part No.: Z1-512-371

◆ MODEL: COM7101A & COM7100A

CHG:

PAGE 6-13 A part of A7 CRT CONTROL <6>

322464-4



Model: COM7101A
COM7100AChange Reference: MC910403-2S
1 of 2

Date: DEC 22nd 1990

Manual Part No.: Z1-512-371

* * EFFECTIVE SERIAL NUMBERS *

COM7101A 10081732 & UP
COM7100A 10050547 & UP

◆◆ PARTS LIST CHANGE ◆◆

◆ MODEL: COM7101A

* PARTS LIST of Change Reference No. MC900911-3S

ADD:

PAGE 3 of 15	CR23	32-30-1200	DIODE VR=60V IO=1A	HITACHI	1SS120
PAGE 4 of 15	R11	40-16-2331	FXD C FLM 3.3K OHM 5% 1/6W	RD1/6FS	
	R25	40-16-3101	FXD C FLM 10K OHM 5% 1/6W	RD1/6FS	
PAGE 5 of 15	R79	40-16-2101	FXD C FLM 1K OHM 5% 1/6W	RD1/6FS	

RMV:

PAGE 2 of 15	A0005
PAGE 5 of 15	R68
	R69

◆ MODEL: COM7100A

* PARTS LIST of Change Reference No. MC900911-3S

ADD:

PAGE 9 of 15	CR23	32-30-1200	DIODE VR=60V IO=1A	HITACHI	1SS120
PAGE 10 of 15	R11	40-16-2331	FXD C FLM 3.3K OHM 5% 1/6W	RD1/6FS	
	R25	40-16-3101	FXD C FLM 10K OHM 5% 1/6W	RD1/6FS	
PAGE 11 of 15	R79	40-16-2101	FXD C FLM 1K OHM 5% 1/6W	RD1/6FS	

RMV:

PAGE 8 of 15	A0005
PAGE 11 of 15	R68
	R69

Date: DEC 22nd 1990

Manual Part No.: Z1-512-371

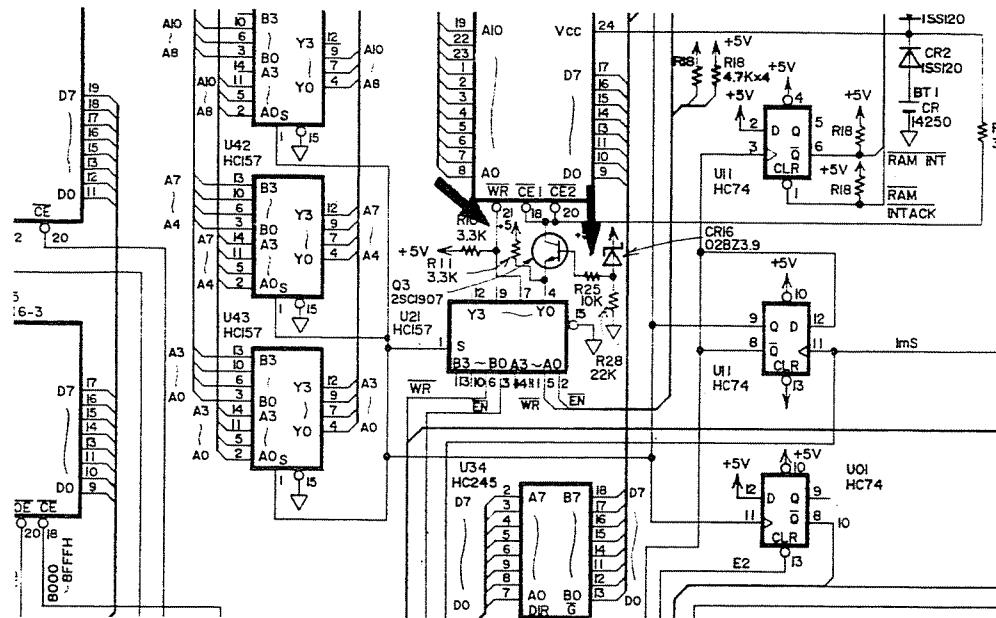
◆◆ S C H E M A T I C C H A N G E ◆◆

◆ MODEL: COM7101A & COM7100A

CHG:

PAGE 6-15 A part of A8 MAIN CPU 1/2 <7>

28036-2

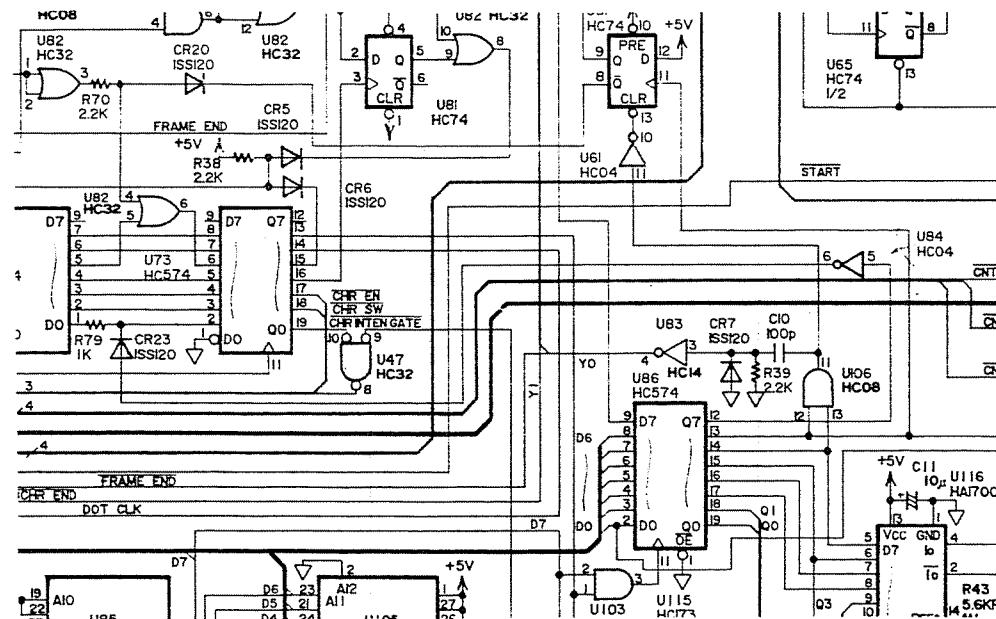


◆ MODEL: COM7101A & COM7100A

CHG:

PAGE 6-17 A part of A8 MAIN CPU 2/2 <8>

28037-2



Model: COM7101A
COM7100A

Change Reference: MC910121-2

1 of 4

Date: JAN 17th 1991

Manual Part No.: Z1-512-371

◆◆ PARTS LIST CHANGE ◆◆

◆ MODEL: COM7101A

ADD:

PAGE 7-13	C37	52-01-3345	FXD CER 1000PF 10% 500V	ECK-D2H
	C38	52-01-3345	FXD CER 1000PF 10% 500V	ECK-D2H
PAGE 7-14	R71	40-27-0472	FXD C FLM 47 OHM 5% 1/4W	NAS1/4S
PAGE 7-15	C37	52-01-3345	FXD CER 1000PF 10% 500V	ECK-D2H
	C38	52-01-3345	FXD CER 1000PF 10% 500V	ECK-D2H
PAGE 7-42	R61	40-16-1561	FXD C FLM 560 OHM 5% 1/6W	RD1/6FS
	R62	40-16-1561	FXD C FLM 560 OHM 5% 1/6W	RD1/6FS

CHG:

PAGE 7-13	C35	52-06-3145	FXD CER 22PF 10% 500V	ECC-D2H
	CV5	57-10-1203	VAR CER 5-20PF	CT254E
PAGE 7-41	R3	48-31-1200	VAR M GLZ 200 OHM B	TM64K2(PH)
	R12	48-31-1200	VAR M GLZ 200 OHM B	TM64K2(PH)
PAGE 7-35	U7D	SA-0016-02	* PROGRAMMED ROM COM7XX1A SUB	
	U8D	SA-0018-02	* PROGRAMMED ROM COM7XX1A SUB	
PAGE 7-42	U11A	34-21-0001	A/D CONV 8BIT 38.5MSPS	ITT
	U11C	34-21-0001	A/D CONV 8BIT 38.5MSPS	ITT
				UVC3130

◆ MODEL: COM7100A

ADD:

PAGE 7-61	C37	52-01-3345	FXD CER 1000PF 10% 500V	ECK-D2H
PAGE 7-63	C37	52-01-3345	FXD CER 1000PF 10% 500V	ECK-D2H

Date: JAN 17th 1991

Manual Part No.: Z1-512-371

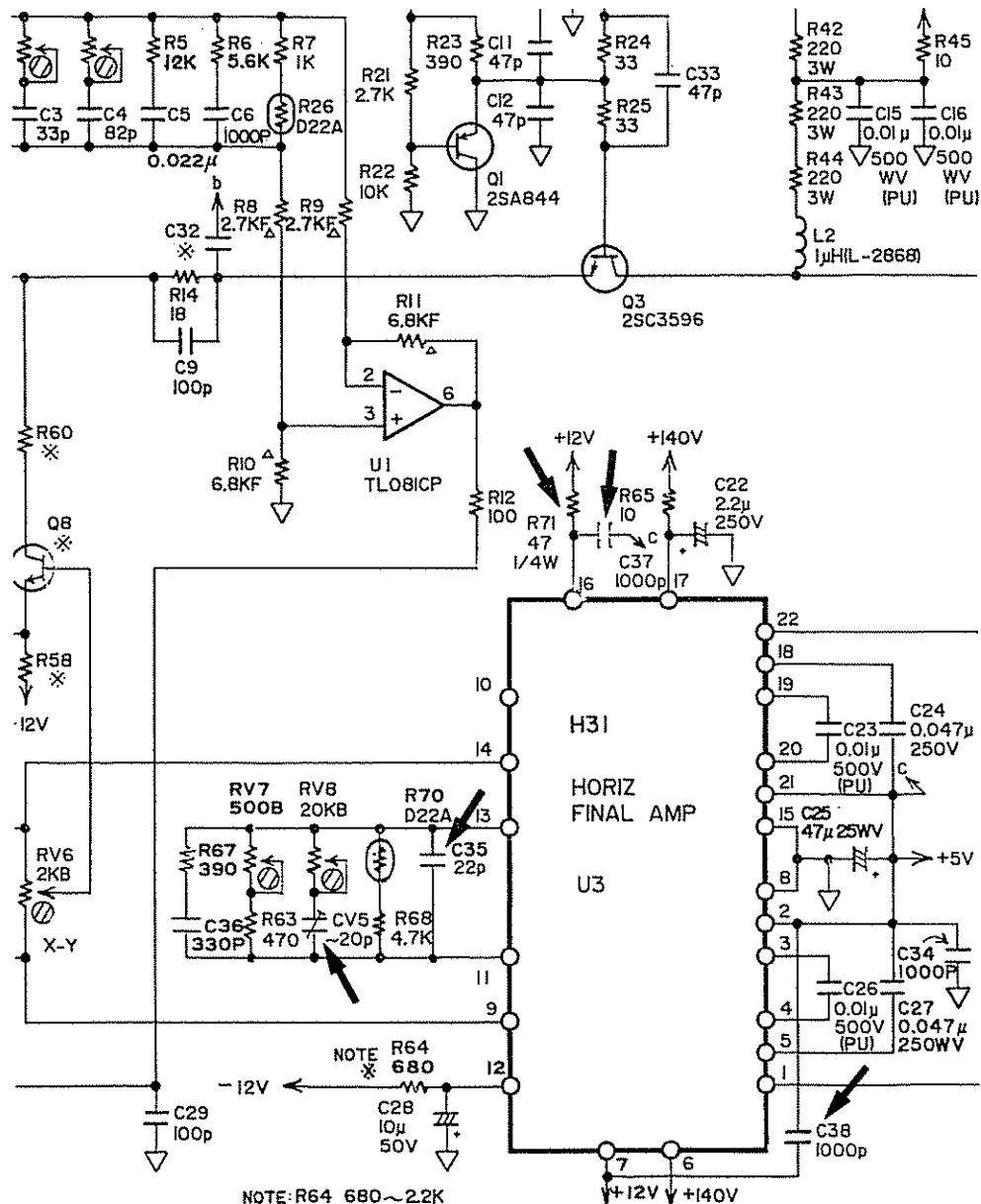
◆◆ SCHEMATIC CHANGE ◆◆

◆ MODEL: COM7101A & COM7100A

CHG:

PAGE 6-9 A part of A5 VERT OUTPUT AMPL & HORIZ OUTPUT AMPL <4>

322462-9



Model: COM7101A
COM7100A

Change Reference: MC910121-2
3 of

Date: JAN 17th 1991

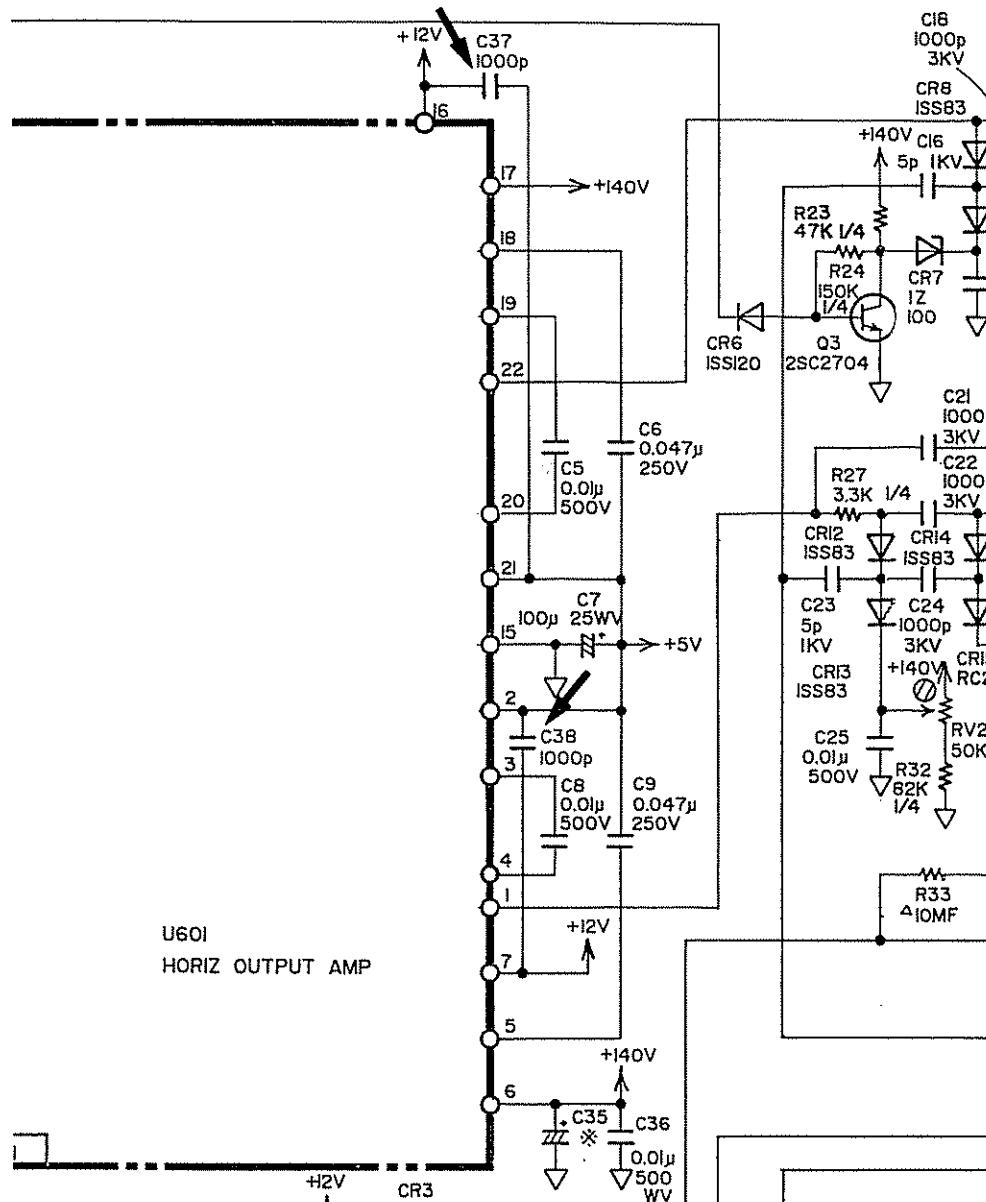
Manual Part No.: ZI-512-371

◆ MODEL: COM7101A & COM7100A

CHG:

PAGE 6-11 A part of A6 Z AXIS AMPL & A22 HV UNIT <5>

322463-9



Date: JAN 17th 1991

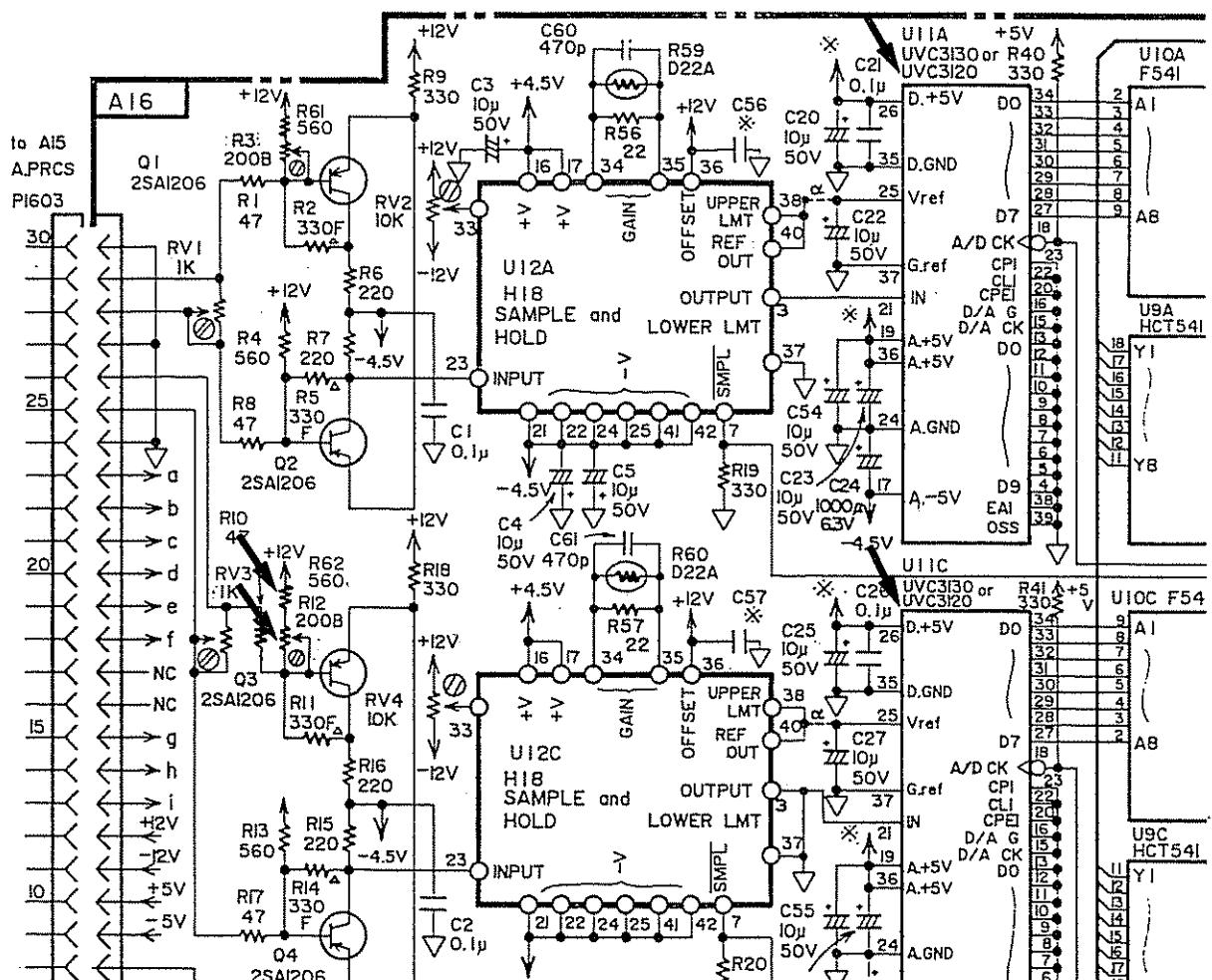
Manual Part No.: Z1-512-371

◆ MODEL: COM7101A

CHG:

PAGE 6-35 A part of A16 A/D CONVERTER & MEMORY <17>

326671-3



KIKUSUI

SERVICE MANUAL CHANGES

Model: COM7101A

Change Reference: MC900911-3

1 of 2

Date: JUN 8th 1990

Manual Part No.: Z1-512-371

PARTS LIST CHANGE

CHANGE TO:

PAGE 7-41 C60 52-01-2305 FXD CER 470PF 10% 50V
PAGE 7-41 C61 52-01-2305 FXD CER 470PF 10% 50V

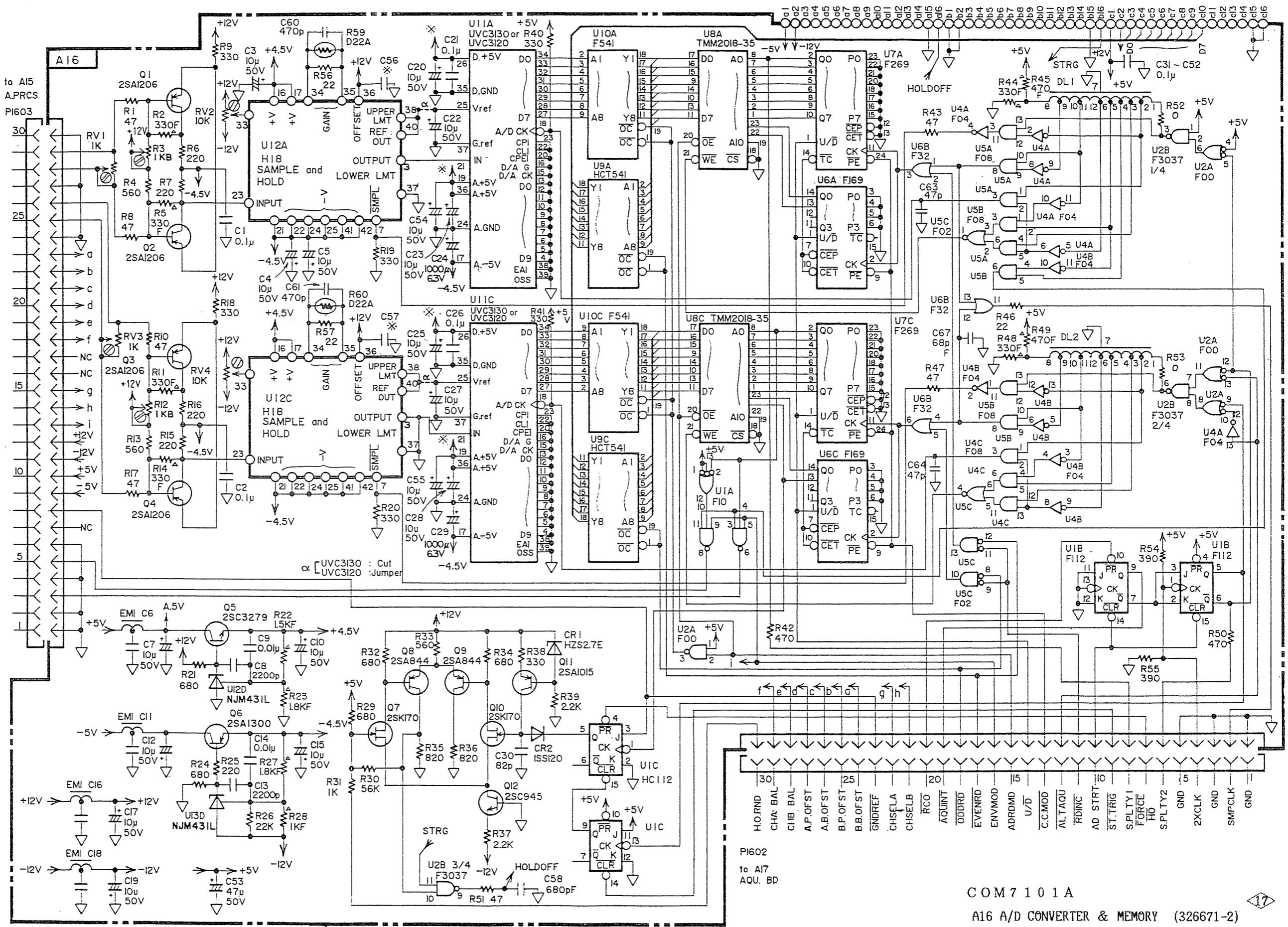
ECK-F1H
ECK-F1H

SCHEMATIC CHANGE

CHANGE TO:

PAGE 6-35 A16 A/D CONVERTER & MEMORY <17>

326671-2



Model: COM7101A
COM7100A

Change Reference: MC900911-3S
1 of 15

Date: JLY 13th 1990

Manual Part No.: Z1-512-371

* * E F E C T I V E S E R I A L N U M B E R S * *

COM7100A 1 0 0 5 0 5 4 7 & UP
COM7101A 1 0 0 8 1 7 3 2 & UP

PARTS LIST CHANGE

MODEL COM7101A

CHANGE TO:

PAGE 7-3 A8 ASSEMBLY PA-1153-01 Parts used for MAIN CPU board.
(Table 7-4 List of ASSEMBLIES for COM7101A)

PAGE 7-18
to 7-22 A8 ASSEMBLY

MODEL COM7100A

CHANGE TO:

PAGE 7-51 A8 ASSEMBLY PA-1153-01 Parts used for MAIN CPU board.
(Table 7-5 List of ASSEMBLIES for COM7100A)

PAGE 7-66
to 7-70 A8 ASSEMBLY

SCHEMATIC CHANGE

CHANGE TO:

PAGE 6-15 A8 MAIN CPU 1/2 <7>
PAGE 6-17 A8 MAIN CPU 2/2 <8>

28036-1

28037-1

REF.	KIKUSUI DESIG.	PART NO.	DESCRIPTION	MANU- FACTURER	MFR PART NO.
A0001	90-50-4271	PCB A8			
A0002	84-29-0090	IC SOCKET 28P		ICC-05-028-360T	
A0003	84-29-0090	IC SOCKET 28P		ICC-05-028-360T	
A0004	91-85-1131	WIRE KIT A8			
A0005	40-16-0001	JUMPER PART			RD1/6ZFS
BT1	94-00-0200	BATTERY LITHIUM			CR14250P31
C01	52-06-3165	FXD CER 33PF 10% 500V		ECC-D2H	
C02	52-06-3165	FXD CER 33PF 10% 500V		ECC-D2H	
C03	55-37-2050	FXD TA ELCTLT 1UF 35V		CS15E1V	
C04	52-05-2468	FXD CER 0.01UF +80-20% 50V		ECK-F1H	
C06	54-20-1210	FXD ELCTLT 220UF 16V		KME16VB	
C07	54-20-1210	FXD ELCTLT 220UF 16V		KME16VB	
C08	52-06-2102	FXD CER 10P 10% 50V		ECC-F1H	
C09	52-01-3305	FXD CER 470PF 10% 500V		ECK-D2H	
C10	52-06-2225	FXD CER 100PF 10% 50V		DD107 CH	
C11	54-40-1200	FXD ELCTLT 10UF 50V		KME50VB	
C12	52-06-2225	FXD CER 100PF 10% 50V		DD107 CH	
C13	NC-000-000	***** NOT CONNECTED *****			
C14	52-01-2345	FXD CER 1000PF 10% 50V		ECK-F1H	
C15	54-40-1200	FXD ELCTLT 10UF 50V		KME50VB	
C16	52-06-2225	FXD CER 100PF 10% 50V		DD107 CH	
C18	52-01-2345	FXD CER 1000PF 10% 50V		ECK-F1H	
C21	54-40-1200	FXD ELCTLT 10UF 50V		KME50VB	
C22	54-40-1200	FXD ELCTLT 10UF 50V		KME50VB	
C23	52-01-2345	FXD CER 1000PF 10% 50V		ECK-F1H	
C24	52-06-3165	FXD CER 33PF 10% 500V		ECC-D2H	
C25	52-06-3165	FXD CER 33PF 10% 500V		ECC-D2H	
C26	54-20-1210	FXD ELCTLT 220UF 16V		KME16VB	
C27	54-40-1200	FXD ELCTLT 10UF 50V		KME50VB	
C28	54-40-1200	FXD ELCTLT 10UF 50V		KME50VB	
C29	54-20-1210	FXD ELCTLT 220UF 16V		KME16VB	
C30	54-40-1200	FXD ELCTLT 10UF 50V		KME50VB	
C31	54-40-1200	FXD ELCTLT 10UF 50V		KME50VB	
C32	54-40-1200	FXD ELCTLT 10UF 50V		KME50VB	
C33	52-37-1000	FXD CER 0.047UF 20% 25V		DD407SR	
C34	52-37-1000	FXD CER 0.047UF 20% 25V		DD407SR	
C35	52-37-1000	FXD CER 0.047UF 20% 25V		DD407SR	
C36	52-37-1000	FXD CER 0.047UF 20% 25V		DD407SR	
C37	52-37-1000	FXD CER 0.047UF 20% 25V		DD407SR	
C38	52-37-1000	FXD CER 0.047UF 20% 25V		DD407SR	
C39	52-37-1000	FXD CER 0.047UF 20% 25V		DD407SR	
C40	52-37-1000	FXD CER 0.047UF 20% 25V		DD407SR	
C41	52-37-1000	FXD CER 0.047UF 20% 25V		DD407SR	
C42	52-37-1000	FXD CER 0.047UF 20% 25V		DD407SR	
C43	52-37-1000	FXD CER 0.047UF 20% 25V		DD407SR	
C44	52-37-1000	FXD CER 0.047UF 20% 25V		DD407SR	
C45	52-37-1000	FXD CER 0.047UF 20% 25V		DD407SR	
C46	52-37-1000	FXD CER 0.047UF 20% 25V		DD407SR	
C47	52-37-1000	FXD CER 0.047UF 20% 25V		DD407SR	

REF.	KIKUSUI	MANU-	MFR
DESIG.	PART NO.	FACTURER	PART NO.
C48	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C49	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C51	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C52	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C53	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C54	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C55	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C56	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C57	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C58	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C59	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C61	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C62	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C63	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C64	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C65	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C66	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C67	52-37-1000	FXD CER 0.047UF 20% 25V	DD407SR
C68	52-06-2225	FXD CER 100PF 10% 50V	DD107 CH
C69	52-06-2225	FXD CER 100PF 10% 50V	DD107 CH
C70	52-06-2184	FXD CER 47PF 10% 50V	DD106 CH
C71	50-43-6560	FXD PLSTC FLM 0.01UF 1% 100V	CQM92PP 2A
CR01	32-30-1200	DIODE VR=60V IO=1A	HITACHI 1SS120
CR02	32-30-1200	DIODE VR=60V IO=1A	HITACHI 1SS120
CR03	NC-000-000	***** NOT CONNECTED *****	
CR04	NC-000-000	***** NOT CONNECTED *****	
CR05	32-30-1200	DIODE VR=60V IO=1A	HITACHI 1SS120
CR06	32-30-1200	DIODE VR=60V IO=1A	HITACHI 1SS120
CR07	32-30-1200	DIODE VR=60V IO=1A	HITACHI 1SS120
CR08	32-30-1200	DIODE VR=60V IO=1A	HITACHI 1SS120
CR09	32-30-1200	DIODE VR=60V IO=1A	HITACHI 1SS120
CR10	32-30-1200	DIODE VR=60V IO=1A	HITACHI 1SS120
CR11	32-30-1200	DIODE VR=60V IO=1A	HITACHI 1SS120
CR12	32-30-1200	DIODE VR=60V IO=1A	HITACHI 1SS120
CR13	32-30-1200	DIODE VR=60V IO=1A	HITACHI 1SS120
CR14	32-92-0056	DIO ZENER 5.49V-5.73V 0.4W	NEC RD5.6JS-B2
CR16	32-91-1200	ZENER VZ=3.4 - 4.6V P=0.25W	TOSHIBA 02BZ3.9
CR20	32-30-1200	DIODE VR=60V IO=1A	HITACHI 1SS120
CR21	32-30-1200	DIODE VR=60V IO=1A	HITACHI 1SS120
CR22	32-92-0056	DIO ZENER 5.49V-5.73V 0.4W	NEC RD5.6JS-B2
P801	84-89-1085	CONN 25P FEMALE TOP-TYPE	5597-25CPB
P802	84-89-1090	CONN 30P FEMALE TOP-TYPE	5597-30CPB
P803	84-89-1050	CONN 30P FEMALE SIDE-TYPE	5597-30APB
P804	84-89-1090	CONN 30P FEMALE TOP-TYPE	5597-30CPB
P805	84-89-1070	CONN 10P FEMALE TOP-TYPE	5597-10CPB
P806	84-89-0500	CONN 2P MALE SIDE-TYPE	5268-02A
P807	85-00-0060	DIP SHORT PLUG 2P	DSP02-002-431T
Q01	30-11-0151	TR SI PNP 50V 0.4W	TOSHIBA 2SA1015-Y

REF.	KIKUSUI DESIG.	PART NO.	DESCRIPTION	MANU- FACTURER	MFR PART NO.
Q02	NC-000-000		***** NOT CONNECTED *****		
Q03	30-31-9071	TR SI NPN		HITACHI	2SC1907
Q04	30-11-0051	TR SI PNP		NEC	2SA1005-L
Q05	30-11-0051	TR SI PNP		NEC	2SA1005-L
Q06	30-30-9451	TR SI NPN		NEC	2SC945A-Q
Q07	30-11-0151	TR SI PNP 50V 0.4W		TOSHIBA	2SA1015-Y
Q08	31-20-1171	FET		TOSHIBA	2SK117-BL
R01	40-16-5101	FXD C FILM	1M OHM 5% 1/6W		RD1/6FS
R02	40-16-2331	FXD C FILM	3.3K OHM 5% 1/6W		RD1/6FS
R03	40-16-2561	FXD C FILM	5.6K OHM 5% 1/6W		RD1/6FS
R04	40-16-0101	FXD C FILM	10 OHM 5% 1/6W		RD1/6FS
R05	40-16-1821	FXD C FILM	820 OHM 5% 1/6W		RD1/6FS
R06	42-80-3471	FXD M FILM	47K OHM 1% 1/6W		RN1/6FS
R07	42-80-2221	FXD M FILM	2.2K OHM 1% 1/6W		RN1/6FS
R09	40-16-1331	FXD C FILM	330 OHM 5% 1/6W		RD1/6FS
R10	40-16-2331	FXD C FILM	3.3K OHM 5% 1/6W		RD1/6FS
R11	NC-000-000	***** NOT CONNECTED *****	*****		
R12	40-16-2561	FXD C FILM	5.6K OHM 5% 1/6W		RD1/6FS
R13	42-80-2331	FXD M FILM	3.3K OHM 1% 1/6W		RN1/6FS
R14	42-80-2471	FXD M FILM	4.7K OHM 1% 1/6W		RN1/6FS
R15	40-16-2221	FXD C FILM	2.2K OHM 5% 1/6W		RD1/6FS
R16	40-16-1681	FXD C FILM	680 OHM 5% 1/6W		RD1/6FS
R17	44-07-0070	FXD M GLAZE	R-NTWK 3.3K OHM X8		TNA09A
R18	44-07-0150	FXD M GLAZE	R-NTWK 4.7K OHM X4		TNA05A
R24	40-16-2331	FXD C FILM	3.3K OHM 5% 1/6W		RD1/6FS
R25	NC-000-000	***** NOT CONNECTED *****	*****		
R26	NC-000-000	***** NOT CONNECTED *****	*****		
R27	NC-000-000	***** NOT CONNECTED *****	*****		
R28	40-16-3221	FXD C FILM	22K OHM 5% 1/6W		RD1/6FS
R29	40-16-2181	FXD C FILM	1.8K OHM 5% 1/6W		RD1/6FS
R30	40-16-1101	FXD C FILM	100 OHM 5% 1/6W		RD1/6FS
R31	40-16-1391	FXD C FILM	390 OHM 5% 1/6W		RD1/6FS
R32	42-80-2151	FXD M FILM	1.5K OHM 1% 1/6W		RN1/6FS
R33	42-80-2331	FXD M FILM	3.3K OHM 1% 1/6W		RN1/6FS
R34	40-16-2471	FXD C FILM	4.7K OHM 5% 1/6W		RD1/6FS
R35	40-16-5101	FXD C FILM	1M OHM 5% 1/6W		RD1/6FS
R36	40-16-3101	FXD C FILM	10K OHM 5% 1/6W		RD1/6FS
R37	40-16-3561	FXD C FILM	56K OHM 5% 1/6W		RD1/6FS
R38	40-16-2221	FXD C FILM	2.2K OHM 5% 1/6W		RD1/6FS
R39	40-16-2221	FXD C FILM	2.2K OHM 5% 1/6W		RD1/6FS
R40	40-16-3101	FXD C FILM	10K OHM 5% 1/6W		RD1/6FS
R41	40-16-3101	FXD C FILM	10K OHM 5% 1/6W		RD1/6FS
R42	40-16-3101	FXD C FILM	10K OHM 5% 1/6W		RD1/6FS
R43	42-80-2561	FXD M FILM	5.6K OHM 1% 1/6W		RN1/6FS
R44	40-16-2271	FXD C FILM	2.7K OHM 5% 1/6W		RD1/6FS
R45	42-80-3101	FXD M FILM	10K OHM 1% 1/6W		RN1/6FS
R46	42-80-2391	FXD M FILM	3.9K OHM 1% 1/6W		RN1/6FS
R47	42-80-1271	FXD M FILM	270 OHM 1% 1/6W		RN1/6FS
R48	42-80-1681	FXD M FILM	680 OHM 1% 1/6W		RN1/6FS
R49	42-80-1471	FXD M FILM	470 OHM 1% 1/6W		RN1/6FS

REF.	KIKUSUI DESIG.	PART NO.	DESCRIPTION	MANU- FACTURER	MFR PART NO.
R50	42-80-2471	FXD M FILM	4.7K OHM 1% 1/6W		RN1/6FS
R51	40-16-1221	FXD C FILM	220 OHM 5% 1/6W		RD1/6FS
R52	42-80-3101	FXD M FILM	10K OHM 1% 1/6W		RN1/6FS
R53	42-80-2821	FXD M FILM	8.2K OHM 1% 1/6W		RN1/6FS
R54	42-80-1471	FXD M FILM	470 OHM 1% 1/6W		RN1/6FS
R55	42-80-1681	FXD M FILM	680 OHM 1% 1/6W		RN1/6FS
R56	42-80-1271	FXD M FILM	270 OHM 1% 1/6W		RN1/6FS
R57	40-16-3101	FXD C FILM	10K OHM 5% 1/6W		RD1/6FS
R58	42-80-1101	FXD M FILM	100 OHM 1% 1/6W		RN1/6FS
R59	40-16-2221	FXD C FILM	2.2K OHM 5% 1/6W		RD1/6FS
R60	40-16-2221	FXD C FILM	2.2K OHM 5% 1/6W		RD1/6FS
R61	40-16-2221	FXD C FILM	2.2K OHM 5% 1/6W		RD1/6FS
R63	40-16-2331	FXD C FILM	3.3K OHM 5% 1/6W		RD1/6FS
R64	40-16-1101	FXD C FILM	100 OHM 5% 1/6W		RD1/6FS
R65	40-16-2221	FXD C FILM	2.2K OHM 5% 1/6W		RD1/6FS
R66	40-16-3101	FXD C FILM	10K OHM 5% 1/6W		RD1/6FS
R67	40-16-3101	FXD C FILM	10K OHM 5% 1/6W		RD1/6FS
R68	40-16-2331	FXD C FILM	3.3K OHM 5% 1/6W		RD1/6FS
R69	40-16-3101	FXD C FILM	10K OHM 5% 1/6W		RD1/6FS
R70	40-16-2221	FXD C FILM	2.2K OHM 5% 1/6W		RD1/6FS
R71	40-16-2561	FXD C FILM	5.6K OHM 5% 1/6W		RD1/6FS
R72	40-16-2561	FXD C FILM	5.6K OHM 5% 1/6W		RD1/6FS
R73	40-16-4101	FXD C FILM	100K OHM 5% 1/6W		RD1/6FS
R74	40-16-4331	FXD C FILM	330K OHM 5% 1/6W		RD1/6FS
R75	42-80-4271	FXD M FILM	270K OHM 1% 1/6W		RN1/6FS
R76	42-80-3121	FXD M FILM	12K OHM 1% 1/6W		RN1/6FS
R77	42-80-2101	FXD M FILM	1K OHM 1% 1/6W		RN1/6FS
R78	42-80-2101	FXD M FILM	1K OHM 1% 1/6W		RN1/6FS
RV1	48-37-3100	VAR M FILM	10K OHM B		VM5CKPV
RV2	48-37-4100	VAR M FILM	100K OHM		VM5CKPV
U001	35-70-0746	DUAL D FF EDGE TRIGGER		TOSHIBA	TC74HC74AP
U005	35-70-0046	HEX INVERTERS		TOSHIBA	TC74HC04AP
U006	35-70-1396	2LINE TO 4LINE DECODER		TOSHIBA	TC74HC139AP
U007	35-70-0086	QUAD 2-INPUT POS-AND		TOSHIBA	TC74HC08AP
U011	35-70-0746	DUAL D FF EDGE TRIGGER		TOSHIBA	TC74HC74AP
U012	36-90-0110	Z80A-CPU 4MHZ		SHARP	LH0080A
U013	NC-000-000	***** NOT CONNECTED *****			
U015	35-56-0111	SRAM 2K X 8BIT CMOS		HITACHI	HM6116P-3
U016	35-53-0304	8-INPUT POSI-NAND		TOSHIBA	TC74HC30AP
U018	35-70-1646	8BIT PARALOAD SHIFTREGISTER		HITACHI	HD74HC164P
U021	35-70-1576	QUAD 2-TO-1 DATA SELECTORS		TOSHIBA	TC74HC157AP
U026	34-44-0010	RESET IC		TI	TL7705CP
U028	35-70-0006	QUAD 2-INPUT POSI-NAND		TOSHIBA	TC74HC00AP
U033	35-56-0080	SRAM 2K X 8BIT 150NS		SANYO	LC3517BL-15
U034	35-53-2454	OCTAL BUS TRANSCEIVER		TOSHIBA	TC74HC245AP
U036	35-53-5414	OCTAL BUFFER		TI	SN7HCS541N
U037	35-53-1744	HEX D-TYPE FLIP FLOP		TOSHIBA	TC74HC174AP
U038	35-70-2991	8 BIT SHIFT REGISTER		TI	SN74LS299N
U041	35-70-1576	QUAD 2-TO-1 DATA SELECTORS		TOSHIBA	TC74HC157AP

REF.	KIKUSUI DESIG.	PART NO.	DESCRIPTION	MANU- FACTURER	MFR PART NO.
U042	35-70-1576	QUAD 2-TO-1 DATA SELECTORS	TOSHIBA	TC74HC157AP	
U043	35-70-1576	QUAD 2-TO-1 DATA SELECTORS	TOSHIBA	TC74HC157AP	
U045	35-70-1386	3LINE TO 8LINE DECODER	HITACHI	HD74HC138P	
U046	35-70-1396	2LINE TO 4LINE DECODER	TOSHIBA	TC74HC139AP	
U047	35-70-0326	QUAD 2-INPUT POS-OR	TOSHIBA	TC74HC32AP	
U051	35-53-1074	DUAL J-K FF WITH P/C	TOSHIBA	TC74HC107P	
U052	35-56-0665	QUAD BILATERAL SWITCH	TOSHIBA	TC74HC4066P	
U053	35-70-0111	TRI 3-INPUT POSI-AND	HITACHI	HD74LS11P	
U054	35-53-3904	DUAL DECADE COUNTERS	TOSHIBA	TC74HC390AP	
U055	35-53-3904	DUAL DECADE COUNTERS	TOSHIBA	TC74HC390AP	
U056	35-53-2574	QUAD DATA SELEC./MULTI.	TOSHIBA	TC74HC257AP	
U057	35-70-0326	QUAD 2-INPUT POS-OR	TOSHIBA	TC74HC32AP	
U061	35-70-0046	HEX INVERTERS	TOSHIBA	TC74HC04AP	
U062	35-56-0945	8 BIT SHIFT/STORE RESISTER	TOSHIBA	TC74HC4094AP	
U063	35-53-1074	DUAL J-K FF WITH P/C	TOSHIBA	TC74HC107P	
U064	35-56-0665	QUAD BILATERAL SWITCH	TOSHIBA	TC74HC4066P	
U065	35-70-0746	DUAL D FF EDGE TRIGGER	TOSHIBA	TC74HC74AP	
U066	35-57-0530	3 DIG BCD COUNTER	MOTOROLA	MC14553B	
U067	35-53-2574	QUAD DATA SELEC./MULTI.	TOSHIBA	TC74HC257AP	
U071	35-73-5900	8 BIT BINARY COUNTER/RESISTER	TI	SN74LS590N	
U072	35-42-0010	PROM 32 X 8BIT 25NS	TI	TBP18S030N	
U073	35-70-5746	OCTAL D TYPE EDGE TRIG F/F	TOSHIBA	TC74HC574AP	
U074	35-70-0086	QUAD 2-INPUT POS-AND	TOSHIBA	TC74HC08AP	
U075	35-53-3934	DUAL 4 BIT BINALY COUNTER	TOSHIBA	TC74HC393AP	
U076	35-73-5900	8 BIT BINARY COUNTER/RESISTER	TI	SN74LS590N	
U077	35-53-5414	OCTAL BUFFER	TI	SN7HCS541N	
U078	35-53-1254	QUAD BUS BUFFER 3-STATE	TOSHIBA	TC74HC125AP	
U081	35-70-0746	DUAL D FF EDGE TRIGGER	TOSHIBA	TC74HC74AP	
U082	35-70-0326	QUAD 2-INPUT POS-OR	TOSHIBA	TC74HC32AP	
U083	35-53-0144	HEX SHMITT-TRIG INVERTER	TOSHIBA	TC74HC14AP	
U084	35-70-0046	HEX INVERTERS	TOSHIBA	TC74HC04AP	
U085	35-56-0111	SRAM 2K X 8BIT CMOS	HITACHI	HM6116P-3	
U086	35-70-5746	OCTAL D TYPE EDGE TRIG F/F	TOSHIBA	TC74HC574AP	
U087	35-53-2454	OCTAL BUS TRANSCEIVER	TOSHIBA	TC74HC245AP	
U091	35-53-3904	DUAL DECADE COUNTERS	TOSHIBA	TC74HC390AP	
U092	34-69-0080	TRIPLE 8-CHANNEL MULTIPLEXER	TOSHIBA	TC4051BP	
U093	34-69-0030	TRIPLE 2-CHANNEL MULTIPLEXER	TOSHIBA	TC4053BP	
U094	35-53-3934	DUAL 4 BIT BINALY COUNTER	TOSHIBA	TC74HC393AP	
U101	35-53-3904	DUAL DECADE COUNTERS	TOSHIBA	TC74HC390AP	
U102	35-56-0945	8 BIT SHIFT/STORE RESISTER	TOSHIBA	TC74HC4094AP	
U103	35-70-0086	QUAD 2-INPUT POS-AND	TOSHIBA	TC74HC08AP	
U104	35-70-5746	OCTAL D TYPE EDGE TRIG F/F	TOSHIBA	TC74HC574AP	
U105	SA-0010-02	EPROM (PROGRAMMED, COM7000 SERIES)	KIKUSUI	27256	
U106	35-70-0086	QUAD 2-INPUT POS-AND	TOSHIBA	TC74HC08AP	
U107	35-56-0945	8 BIT SHIFT/STORE RESISTER	TOSHIBA	TC74HC4094AP	
U112	35-70-0046	HEX INVERTERS	TOSHIBA	TC74HC04AP	
U113	35-70-0746	DUAL D FF EDGE TRIGGER	TOSHIBA	TC74HC74AP	
U114	34-22-0010	D/A CONVERTER 8BIT 85NS	HITACHI	HA17008RP	
U115	35-70-1736	4 BIT D TYPE RESISTERS	TOSHIBA	TC74HC173P	
U116	34-22-0010	D/A CONVERTER 8BIT 85NS	HITACHI	HA17008RP	
U117	34-00-0210	FET OPE-AMP	TI	TL084CN	
U118	34-69-0070	ANALOG MULTIPLEXER	HITACHI	HD14052B	

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ASSY. NO.	PA-1153-01	A8 ASSEMBLY			
REF.	KIKUSUI		MANU-	MFR	
DESIG.	PART NO.	DESCRIPTION	FACTURER	PART NO.	
X1	93-00-0180	QUARTS HC-49/U	8MHZ	KIKUSUI	S8409201
X2	93-00-0230	QUARTS HC-49/U	10MHZ (AT)	KIKUSUI	S8510031

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REF.	KIKUSUI DESIG.	PART NO.	DESCRIPTION	MANU- FACTURER	MFR PART NO.
A0001	90-50-4271	PCB A8			
A0002	84-29-0090	IC SOCKET 28P		ICC-05-028-360T	
A0003	84-29-0090	IC SOCKET 28P		ICC-05-028-360T	
A0004	91-85-1131	WIRE KIT A8			
A0005	40-16-0001	JUMPER PART			RD1/6ZFS
BT1	94-00-0200	BATTERY LITHIUM			CR14250P31
C01	52-06-3165	FXD CER 33PF 10% 500V			ECC-D2H
C02	52-06-3165	FXD CER 33PF 10% 500V			ECC-D2H
C03	55-37-2050	FXD TA ELCTLT 1UF 35V			CS15E1V
C04	52-05-2468	FXD CER 0.01UF +80-20% 50V			ECK-F1H
C06	54-20-1210	FXD ELCTLT 220UF 16V			KME16VB
C07	54-20-1210	FXD ELCTLT 220UF 16V			KME16VB
C08	52-06-2102	FXD CER 10P 10% 50V			ECC-F1H
C09	52-01-3305	FXD CER 470PF 10% 500V			ECK-D2H
C10	52-06-2225	FXD CER 100PF 10% 50V			DD107 CH
C11	54-40-1200	FXD ELCTLT 10UF 50V			KME50VB
C12	52-06-2225	FXD CER 100PF 10% 50V			DD107 CH
C13	NC-000-000	***** NOT CONNECTED *****			
C14	52-01-2345	FXD CER 1000PF 10% 50V			ECK-F1H
C15	54-40-1200	FXD ELCTLT 10UF 50V			KME50VB
C16	52-06-2225	FXD CER 100PF 10% 50V			DD107 CH
C18	52-01-2345	FXD CER 1000PF 10% 50V			ECK-F1H
C21	54-40-1200	FXD ELCTLT 10UF 50V			KME50VB
C22	54-40-1200	FXD ELCTLT 10UF 50V			KME50VB
C23	52-01-2345	FXD CER 1000PF 10% 50V			ECK-F1H
C24	52-06-3165	FXD CER 33PF 10% 500V			ECC-D2H
C25	52-06-3165	FXD CER 33PF 10% 500V			ECC-D2H
C26	54-20-1210	FXD ELCTLT 220UF 16V			KME16VB
C27	54-40-1200	FXD ELCTLT 10UF 50V			KME50VB
C28	54-40-1200	FXD ELCTLT 10UF 50V			KME50VB
C29	54-20-1210	FXD ELCTLT 220UF 16V			KME16VB
C30	54-40-1200	FXD ELCTLT 10UF 50V			KME50VB
C31	54-40-1200	FXD ELCTLT 10UF 50V			KME50VB
C32	54-40-1200	FXD ELCTLT 10UF 50V			KME50VB
C33	52-37-1000	FXD CER 0.047UF 20% 25V			DD407SR
C34	52-37-1000	FXD CER 0.047UF 20% 25V			DD407SR
C35	52-37-1000	FXD CER 0.047UF 20% 25V			DD407SR
C36	52-37-1000	FXD CER 0.047UF 20% 25V			DD407SR
C37	52-37-1000	FXD CER 0.047UF 20% 25V			DD407SR
C38	52-37-1000	FXD CER 0.047UF 20% 25V			DD407SR
C39	52-37-1000	FXD CER 0.047UF 20% 25V			DD407SR
C40	52-37-1000	FXD CER 0.047UF 20% 25V			DD407SR
C41	52-37-1000	FXD CER 0.047UF 20% 25V			DD407SR
C42	52-37-1000	FXD CER 0.047UF 20% 25V			DD407SR
C43	52-37-1000	FXD CER 0.047UF 20% 25V			DD407SR
C44	52-37-1000	FXD CER 0.047UF 20% 25V			DD407SR
C45	52-37-1000	FXD CER 0.047UF 20% 25V			DD407SR
C46	52-37-1000	FXD CER 0.047UF 20% 25V			DD407SR
C47	52-37-1000	FXD CER 0.047UF 20% 25V			DD407SR

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ASSY. NO. PA-1153-01 A8 ASSEMBLY

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REF.	KIKUSUI DESIG.	PART NO.	DESCRIPTION	MANU- FACTURER	MFR PART NO.
C48	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C49	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C51	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C52	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C53	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C54	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C55	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C56	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C57	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C58	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C59	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C61	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C62	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C63	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C64	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C65	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C66	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C67	52-37-1000	FXD CER 0.047UF	20% 25V		DD407SR
C68	52-06-2225	FXD CER 100PF	10% 50V		DD107 CH
C69	52-06-2225	FXD CER 100PF	10% 50V		DD107 CH
C70	52-06-2184	FXD CER 47PF	10% 50V		DD106 CH
C71	50-43-6560	FXD PLSTC FLM	0.01UF 1% 100V		CQM92PP 2A
CR01	32-30-1200	DIODE VR=60V	IO=1A	HITACHI	1SS120
CR02	32-30-1200	DIODE VR=60V	IO=1A	HITACHI	1SS120
CR03	NC-000-000	***** NOT CONNECTED *****			
CR04	NC-000-000	***** NOT CONNECTED *****			
CR05	32-30-1200	DIODE VR=60V	IO=1A	HITACHI	1SS120
CR06	32-30-1200	DIODE VR=60V	IO=1A	HITACHI	1SS120
CR07	32-30-1200	DIODE VR=60V	IO=1A	HITACHI	1SS120
CR08	32-30-1200	DIODE VR=60V	IO=1A	HITACHI	1SS120
CR09	32-30-1200	DIODE VR=60V	IO=1A	HITACHI	1SS120
CR10	32-30-1200	DIODE VR=60V	IO=1A	HITACHI	1SS120
CR11	32-30-1200	DIODE VR=60V	IO=1A	HITACHI	1SS120
CR12	32-30-1200	DIODE VR=60V	IO=1A	HITACHI	1SS120
CR13	32-30-1200	DIODE VR=60V	IO=1A	HITACHI	1SS120
CR14	32-92-0056	DIO ZENER 5.49V-5.73V	0.4W	NEC	RD5.6JS-B2
CR16	32-91-1200	ZENER VZ=3.4 - 4.6V	P=0.25W	TOSHIBA	02BZ3.9
CR20	32-30-1200	DIODE VR=60V	IO=1A	HITACHI	1SS120
CR21	32-30-1200	DIODE VR=60V	IO=1A	HITACHI	1SS120
CR22	32-92-0056	DIO ZENER 5.49V-5.73V	0.4W	NEC	RD5.6JS-B2
P801	84-89-1085	CONN 25P FEMALE	TOP-TYPE		5597-25CPB
P802	84-89-1090	CONN 30P FEMALE	TOP-TYPE		5597-30CPB
P803	84-89-1050	CONN 30P FEMALE	SIDE-TYPE		5597-30APB
P804	84-89-1090	CONN 30P FEMALE	TOP-TYPE		5597-30CPB
P805	84-89-1070	CONN 10P FEMALE	TOP-TYPE		5597-10CPB
P806	84-89-0500	CONN 2P MALE	SIDE-TYPE		5268-02A
P807	85-00-0060	DIP SHORT PLUG	2P		DSP02-002-431T
Q01	30-11-0151	TR SI PNP	50V 0.4W	TOSHIBA	2SA1015-Y

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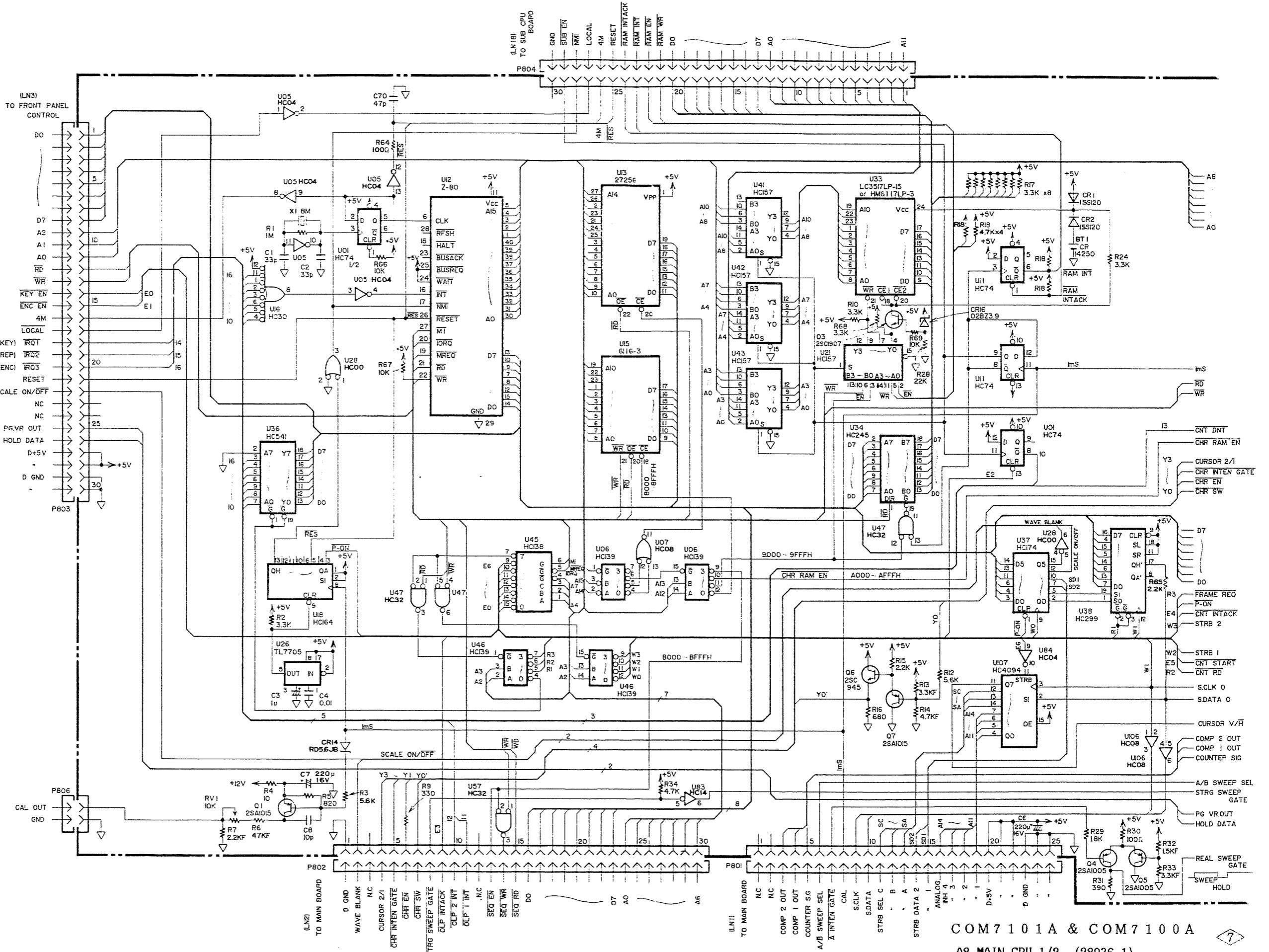
REF.	KIKUSUI DESIG.	PART NO.	DESCRIPTION	MANU- FACTURER	MFR PART NO.
Q02	NC-000-000		***** NOT CONNECTED *****		
Q03	30-31-9071	TR SI NPN		HITACHI	2SC1907
Q04	30-11-0051	TR SI PNP		NEC	2SA1005-L
Q05	30-11-0051	TR SI PNP		NEC	2SA1005-L
Q06	30-30-9451	TR SI NPN		NEC	2SC945A-Q
Q07	30-11-0151	TR SI PNP 50V 0.4W		TOSHIBA	2SA1015-Y
Q08	31-20-1171	FET		TOSHIBA	2SK117-BL
R01	40-16-5101	FXD C FILM	1M OHM 5% 1/6W		RD1/6FS
R02	40-16-2331	FXD C FILM	3.3K OHM 5% 1/6W		RD1/6FS
R03	40-16-2561	FXD C FILM	5.6K OHM 5% 1/6W		RD1/6FS
R04	40-16-0101	FXD C FILM	10 OHM 5% 1/6W		RD1/6FS
R05	40-16-1821	FXD C FILM	820 OHM 5% 1/6W		RD1/6FS
R06	42-80-3471	FXD M FILM	47K OHM 1% 1/6W		RN1/6FS
R07	42-80-2221	FXD M FILM	2.2K OHM 1% 1/6W		RN1/6FS
R09	40-16-1331	FXD C FILM	330 OHM 5% 1/6W		RD1/6FS
R10	40-16-2331	FXD C FILM	3.3K OHM 5% 1/6W		RD1/6FS
R11	NC-000-000	***** NOT CONNECTED *****			
R12	40-16-2561	FXD C FILM	5.6K OHM 5% 1/6W		RD1/6FS
R13	42-80-2331	FXD M FILM	3.3K OHM 1% 1/6W		RN1/6FS
R14	42-80-2471	FXD M FILM	4.7K OHM 1% 1/6W		RN1/6FS
R15	40-16-2221	FXD C FILM	2.2K OHM 5% 1/6W		RD1/6FS
R16	40-16-1681	FXD C FILM	680 OHM 5% 1/6W		RD1/6FS
R17	44-07-0070	FXD M GLAZE	R-NTWK 3.3K OHM X8		TNA09A
R18	44-07-0150	FXD M GLAZE	R-NTWK 4.7K OHM X4		TNA05A
R24	40-16-2331	FXD C FILM	3.3K OHM 5% 1/6W		RD1/6FS
R25	NC-000-000	***** NOT CONNECTED *****			
R26	NC-000-000	***** NOT CONNECTED *****			
R27	NC-000-000	***** NOT CONNECTED *****			
R28	40-16-3221	FXD C FILM	22K OHM 5% 1/6W		RD1/6FS
R29	40-16-2181	FXD C FILM	1.8K OHM 5% 1/6W		RD1/6FS
R30	40-16-1101	FXD C FILM	100 OHM 5% 1/6W		RD1/6FS
R31	40-16-1391	FXD C FILM	390 OHM 5% 1/6W		RD1/6FS
R32	42-80-2151	FXD M FILM	1.5K OHM 1% 1/6W		RN1/6FS
R33	42-80-2331	FXD M FILM	3.3K OHM 1% 1/6W		RN1/6FS
R34	40-16-2471	FXD C FILM	4.7K OHM 5% 1/6W		RD1/6FS
R35	40-16-5101	FXD C FILM	1M OHM 5% 1/6W		RD1/6FS
R36	40-16-3101	FXD C FILM	10K OHM 5% 1/6W		RD1/6FS
R37	40-16-3561	FXD C FILM	56K OHM 5% 1/6W		RD1/6FS
R38	40-16-2221	FXD C FILM	2.2K OHM 5% 1/6W		RD1/6FS
R39	40-16-2221	FXD C FILM	2.2K OHM 5% 1/6W		RD1/6FS
R40	40-16-3101	FXD C FILM	10K OHM 5% 1/6W		RD1/6FS
R41	40-16-3101	FXD C FILM	10K OHM 5% 1/6W		RD1/6FS
R42	40-16-3101	FXD C FILM	10K OHM 5% 1/6W		RD1/6FS
R43	42-80-2561	FXD M FILM	5.6K OHM 1% 1/6W		RN1/6FS
R44	40-16-2271	FXD C FILM	2.7K OHM 5% 1/6W		RD1/6FS
R45	42-80-3101	FXD M FILM	10K OHM 1% 1/6W		RN1/6FS
R46	42-80-2391	FXD M FILM	3.9K OHM 1% 1/6W		RN1/6FS
R47	42-80-1271	FXD M FILM	270 OHM 1% 1/6W		RN1/6FS
R48	42-80-1681	FXD M FILM	680 OHM 1% 1/6W		RN1/6FS
R49	42-80-1471	FXD M FILM	470 OHM 1% 1/6W		RN1/6FS

REF.	KIKUSUI DESIG.	PART NO.	DESCRIPTION	MANU- FACTURER	MFR PART NO.
R50	42-80-2471	FXD M FILM	4.7K OHM 1% 1/6W		RN1/6FS
R51	40-16-1221	FXD C FILM	220 OHM 5% 1/6W		RD1/6FS
R52	42-80-3101	FXD M FILM	10K OHM 1% 1/6W		RN1/6FS
R53	42-80-2821	FXD M FILM	8.2K OHM 1% 1/6W		RN1/6FS
R54	42-80-1471	FXD M FILM	470 OHM 1% 1/6W		RN1/6FS
R55	42-80-1681	FXD M FILM	680 OHM 1% 1/6W		RN1/6FS
R56	42-80-1271	FXD M FILM	270 OHM 1% 1/6W		RN1/6FS
R57	40-16-3101	FXD C FILM	10K OHM 5% 1/6W		RD1/6FS
R58	42-80-1101	FXD M FILM	100 OHM 1% 1/6W		RN1/6FS
R59	40-16-2221	FXD C FILM	2.2K OHM 5% 1/6W		RD1/6FS
R60	40-16-2221	FXD C FILM	2.2K OHM 5% 1/6W		RD1/6FS
R61	40-16-2221	FXD C FILM	2.2K OHM 5% 1/6W		RD1/6FS
R63	40-16-2331	FXD C FILM	3.3K OHM 5% 1/6W		RD1/6FS
R64	40-16-1101	FXD C FILM	100 OHM 5% 1/6W		RD1/6FS
R65	40-16-2221	FXD C FILM	2.2K OHM 5% 1/6W		RD1/6FS
R66	40-16-3101	FXD C FILM	10K OHM 5% 1/6W		RD1/6FS
R67	40-16-3101	FXD C FILM	10K OHM 5% 1/6W		RD1/6FS
R68	40-16-2331	FXD C FILM	3.3K OHM 5% 1/6W		RD1/6FS
R69	40-16-3101	FXD C FILM	10K OHM 5% 1/6W		RD1/6FS
R70	40-16-2221	FXD C FILM	2.2K OHM 5% 1/6W		RD1/6FS
R71	40-16-2561	FXD C FILM	5.6K OHM 5% 1/6W		RD1/6FS
R72	40-16-2561	FXD C FILM	5.6K OHM 5% 1/6W		RD1/6FS
R73	40-16-4101	FXD C FILM	100K OHM 5% 1/6W		RD1/6FS
R74	40-16-4331	FXD C FILM	330K OHM 5% 1/6W		RD1/6FS
R75	42-80-4271	FXD M FILM	270K OHM 1% 1/6W		RN1/6FS
R76	42-80-3121	FXD M FILM	12K OHM 1% 1/6W		RN1/6FS
R77	42-80-2101	FXD M FILM	1K OHM 1% 1/6W		RN1/6FS
R78	42-80-2101	FXD M FILM	1K OHM 1% 1/6W		RN1/6FS
RV1	48-37-3100	VAR M FILM	10K OHM B		VM5CKPV
RV2	48-37-4100	VAR M FILM	100K OHM		VM5CKPV
U001	35-70-0746	DUAL D FF EDGE TRIGGER		TOSHIBA	TC74HC74AP
U005	35-70-0046	HEX INVERTERS		TOSHIBA	TC74HC04AP
U006	35-70-1396	2LINE TO 4LINE DECODER		TOSHIBA	TC74HC139AP
U007	35-70-0086	QUAD 2-INPUT POS-AND		TOSHIBA	TC74HC08AP
U011	35-70-0746	DUAL D FF EDGE TRIGGER		TOSHIBA	TC74HC74AP
U012	36-90-0110	Z80A-CPU 4MHZ		SHARP	LH0080A
U013	NC-000-000	***** NOT CONNECTED *****			
U015	35-56-0111	SRAM 2K X 8BIT CMOS		HITACHI	HM6116P-3
U016	35-53-0304	8-INPUT POSI-NAND		TOSHIBA	TC74HC30AP
U018	35-70-1646	8BIT PARALOAD SHIFTREGISTER		HITACHI	HD74HC164P
U021	35-70-1576	QUAD 2-TO-1 DATA SELECTORS		TOSHIBA	TC74HC157AP
U026	34-44-0010	RESET IC		TI	TL7705CP
U028	35-70-0006	QUAD 2-INPUT POSI-NAND		TOSHIBA	TC74HC00AP
U033	35-56-0080	SRAM 2K X 8BIT 150NS		SANYO	LC3517BL-15
U034	35-53-2454	OCTAL BUS TRANSCEIVER		TOSHIBA	TC74HC245AP
U036	35-53-5414	OCTAL BUFFER		TI	SN7HCS541N
U037	35-53-1744	HEX D-TYPE FLIP FLOP		TOSHIBA	TC74HC174AP
U038	35-70-2991	8 BIT SHIFT REGISTER		TI	SN74LS299N
U041	35-70-1576	QUAD 2-TO-1 DATA SELECTORS		TOSHIBA	TC74HC157AP

REF.	KIKUSUI DESIG.	PART NO.	DESCRIPTION	MANU- FACTURER	MFR PART NO.
U042	35-70-1576	QUAD 2-TO-1 DATA SELECTORS	TOSHIBA	TC74HC157AP	
U043	35-70-1576	QUAD 2-TO-1 DATA SELECTORS	TOSHIBA	TC74HC157AP	
U045	35-70-1386	3LINE TO 8LINE DECODER	HITACHI	HD74HC138P	
U046	35-70-1396	2LINE TO 4LINE DECODER	TOSHIBA	TC74HC139AP	
U047	35-70-0326	QUAD 2-INPUT POS-OR	TOSHIBA	TC74HC32AP	
U051	35-53-1074	DUAL J-K F-F WITH P/C	TOSHIBA	TC74HC107P	
U052	35-56-0665	QUAD BILATERAL SWITCH	TOSHIBA	TC74HC4066P	
U053	35-70-0111	TRI 3-INPUT POSI-AND	HITACHI	HD74LS11P	
U054	35-53-3904	DUAL DECADE COUNTERS	TOSHIBA	TC74HC390AP	
U055	35-53-3904	DUAL DECADE COUNTERS	TOSHIBA	TC74HC390AP	
U056	35-53-2574	QUAD DATA SELEC./MULTI.	TOSHIBA	TC74HC257AP	
U057	35-70-0326	QUAD 2-INPUT POS-OR	TOSHIBA	TC74HC32AP	
U061	35-70-0046	HEX INVERTERS	TOSHIBA	TC74HC04AP	
U062	35-56-0945	8 BIT SHIFT/STORE RESISTER	TOSHIBA	TC74HC4094AP	
U063	35-53-1074	DUAL J-K F-F WITH P/C	TOSHIBA	TC74HC107P	
U064	35-56-0665	QUAD BILATERAL SWITCH	TOSHIBA	TC74HC4066P	
U065	35-70-0746	DUAL D FF EDGE TRIGGER	TOSHIBA	TC74HC74AP	
U066	35-57-0530	3 DIG BCD COUNTER	MOTOROLA	MC14553B	
U067	35-53-2574	QUAD DATA SELEC./MULTI.	TOSHIBA	TC74HC257AP	
U071	35-73-5900	8 BIT BINARY COUNTER/RESISTER	TI	SN74LS590N	
U072	35-42-0010	PROM 32 X 8BIT 25NS	TI	TBP18S030N	
U073	35-70-5746	OCTAL D TYPE EDGE TRIG F/F	TOSHIBA	TC74HC574AP	
U074	35-70-0086	QUAD 2-INPUT POS-AND	TOSHIBA	TC74HC08AP	
U075	35-53-3934	DUAL 4 BIT BINALY COUNTER	TOSHIBA	TC74HC393AP	
U076	35-73-5900	8 BIT BINARY COUNTER/RESISTER	TI	SN74LS590N	
U077	35-53-5414	OCTAL BUFFER	TI	SN7HCS541N	
U078	35-53-1254	QUAD BUS BUFFER 3-STATE	TOSHIBA	TC74HC125AP	
U081	35-70-0746	DUAL D FF EDGE TRIGGER	TOSHIBA	TC74HC74AP	
U082	35-70-0326	QUAD 2-INPUT POS-OR	TOSHIBA	TC74HC32AP	
U083	35-53-0144	HEX SHMITT-TRIG INVERTER	TOSHIBA	TC74HC14AP	
U084	35-70-0046	HEX INVERTERS	TOSHIBA	TC74HC04AP	
U085	35-56-0111	SRAM 2K X 8BIT CMOS	HITACHI	HM6116P-3	
U086	35-70-5746	OCTAL D TYPE EDGE TRIG F/F	TOSHIBA	TC74HC574AP	
U087	35-53-2454	OCTAL BUS TRANSCEIVER	TOSHIBA	TC74HC245AP	
U091	35-53-3904	DUAL DECADE COUNTERS	TOSHIBA	TC74HC390AP	
U092	34-69-0080	TRIPLE 8-CHANNEL MULTIPLEXER	TOSHIBA	TC4051BP	
U093	34-69-0030	TRIPLE 2-CHANNEL MULTIPLEXER	TOSHIBA	TC4053BP	
U094	35-53-3934	DUAL 4 BIT BINALY COUNTER	TOSHIBA	TC74HC393AP	
U101	35-53-3904	DUAL DECADE COUNTERS	TOSHIBA	TC74HC390AP	
U102	35-56-0945	8 BIT SHIFT/STORE RESISTER	TOSHIBA	TC74HC4094AP	
U103	35-70-0086	QUAD 2-INPUT POS-AND	TOSHIBA	TC74HC08AP	
U104	35-70-5746	OCTAL D TYPE EDGE TRIG F/F	TOSHIBA	TC74HC574AP	
U105	SA-0010-02	EPROM (PROGRAMMED, COM7000 SERIES)	KIKUSUI	27256	
U106	35-70-0086	QUAD 2-INPUT POS-AND	TOSHIBA	TC74HC08AP	
U107	35-56-0945	8 BIT SHIFT/STORE RESISTER	TOSHIBA	TC74HC4094AP	
U112	35-70-0046	HEX INVERTERS	TOSHIBA	TC74HC04AP	
U113	35-70-0746	DUAL D FF EDGE TRIGGER	TOSHIBA	TC74HC74AP	
U114	34-22-0010	D/A CONVERTER 8BIT 85NS	HITACHI	HA17008RP	
U115	35-70-1736	4 BIT D TYPE RESISTERS	TOSHIBA	TC74HC173P	
U116	34-22-0010	D/A CONVERTER 8BIT 85NS	HITACHI	HA17008RP	
U117	34-00-0210	FET OPE-AMP	TI	TL084CN	
U118	34-69-0070	ANALOG MULTIPLEXER	HITACHI	HD14052B	

MODEL COM7100A OCT/17/'90 PAGE 6
ASSY. NO. PA-1153-01 A8 ASSEMBLY

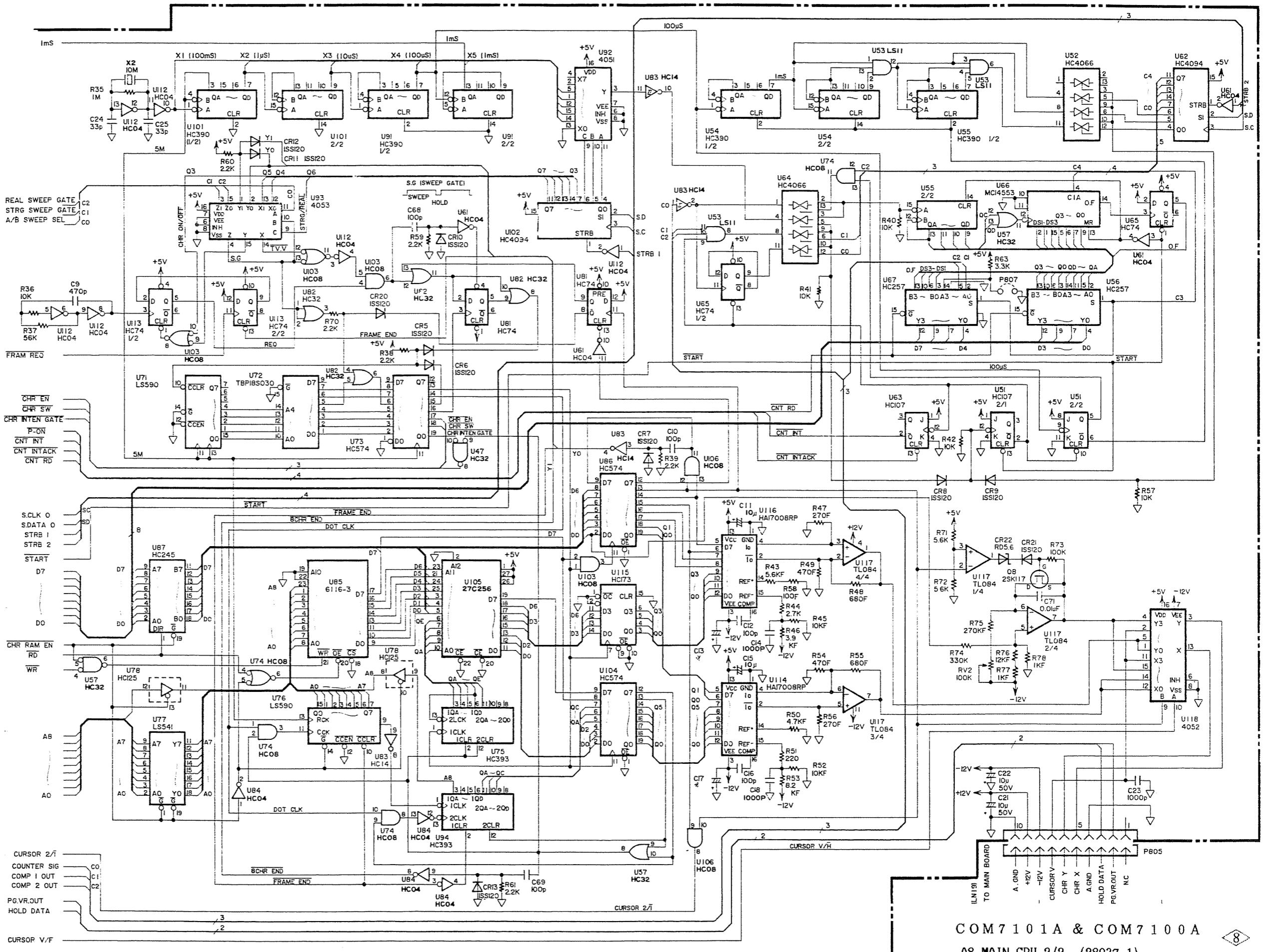
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DESIG.	PART NO.	FACTURER	PART NO.		
X1	93-00-0180	QUARTS HC-49/U	8MHZ	KIKUSUI	S8409201
X2	93-00-0230	QUARTS HC-49/U	10MHZ (AT)	KIKUSUI	S8510031



COM 7101A & COM 7100A

A8 MAIN CPU 1/2 (28036-1)

Change Ref.: MC900911-3S 14 of 15



COM7101A
COM7100A

Change Reference: MC900611-3

1 of 1

Date: MAR 23th 1990

Manual Part No.: Z1-512-371

PARTS LIST CHANGE

MODEL COM7101A

CHANGE TO:

PAGE 7-15	CR11	32-90-1821	DIODE VR=1500V IF=0.2A	SANKEN	RC2
	CR15	32-90-1821	DIODE VR=1500V IF=0.2A	SANKEN	RC2

ADD:

PAGE 7-19	CR16	32-91-1200	ZENER VZ=3.4-4.6V P=0.25W	TOSHIBA	02BZ3.9
PAGE 7-20	R66	40-16-3101	FXD C FILM 10KΩ 5% 1/6W		
	R67	40-16-3101	FXD C FILM 10KΩ 5% 1/6W		
	R68	40-16-2331	FXD C FILM 3.3KΩ 5% 1/6W		
	R69	40-16-3101	FXD C FILM 10KΩ 5% 1/6W		

REMOVE:

PAGE 7-19	R11
PAGE 7-20	R25

MODEL COM7100A

CHANGE TO:

PAGE 7-63	CR11	32-90-1821	DIODE VR=1500V IF=0.2A	SANKEN	RC2
	CR15	32-90-1821	DIODE VR=1500V IF=0.2A	SANKEN	RC2

ADD:

PAGE 7-67	CR16	32-91-1200	ZENER VZ=3.4-4.6V P=0.25W	TOSHIBA	02BZ3.9
PAGE 7-68	R66	40-16-3101	FXD C FILM 10KΩ 5% 1/6W		
	R67	40-16-3101	FXD C FILM 10KΩ 5% 1/6W		
	R68	40-16-2331	FXD C FILM 3.3KΩ 5% 1/6W		
	R69	40-16-3101	FXD C FILM 10KΩ 5% 1/6W		

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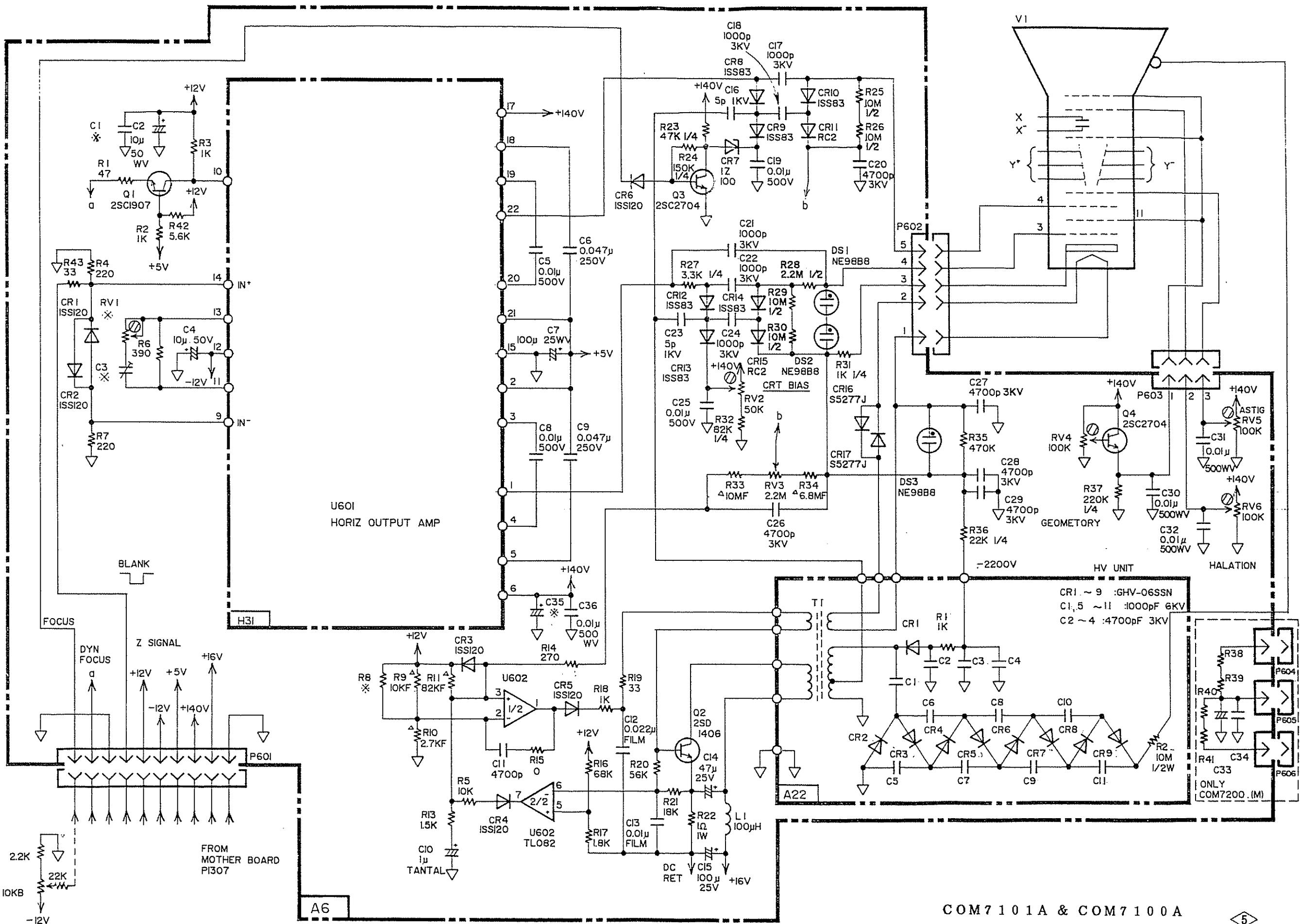
PAGE 7-67	R11
PAGE 7-68	R25

SCHEMATIC CHANGE

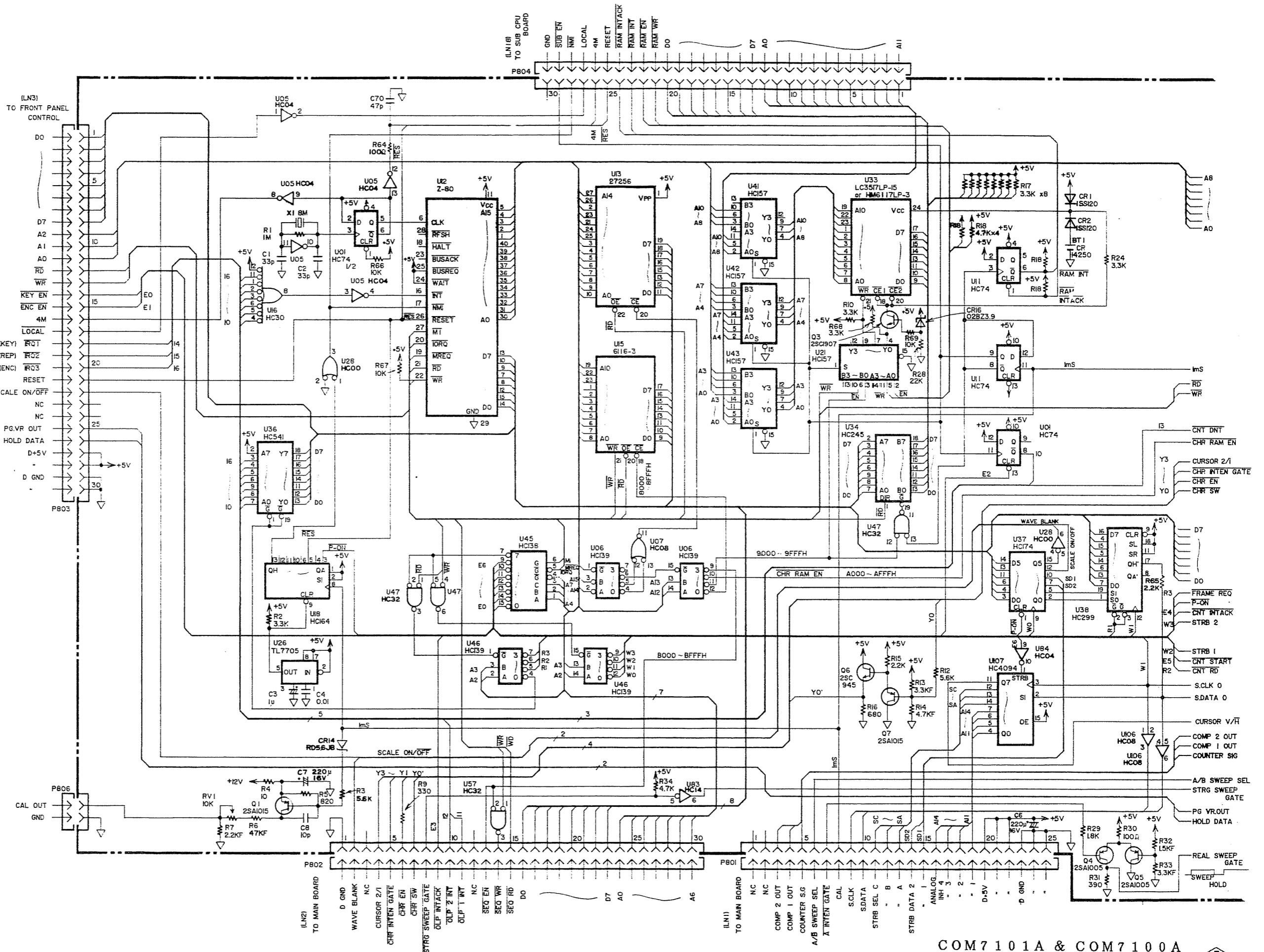
MODEL COM7101A & COM7100A

CHANGE TO:

PAGE 6-11	A6 Z AXIS AMP & A22 H.V UNIT	◇5	322463-7
PAGE 6-15	A8 MAIN CPU (1/2)	◇7	26497-6



COM 7101A & COM 7100A
A6 Z AXIS AMP & A22 H.V. UNIT (322463-7)



COM7101A & COM7100A

A8 MAIN CPU 1/2 (26497-6)