INSTRUCTION MANUAL



DATA EAST USA, INC.

470 GIANNI ST., SANTA CLARA, CALIFORNIA 95054

Telephone: (408) 727-4490 Telex: 172163 DATA EAST SNTA

WARNING

This equipment generates and uses radio frequency energy and if not installed and used properly, i.e., in strict accordance with the instructions manual, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device persuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

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GAME PLAY

YOU ARE ABOUT TO BEGIN A HIGHLY SECRET MISSION

You are a crack soldier with special training. You have been given a highly secret mission, and are about to enter into fierce guerrilla warfare! The mission is to a annihilate the enemy and to rescue important captives. To do this you must destroy the enemy base, which is said to be impregnable.

The battles you will fight take place in several areas requiring various attack techniques. Your weapons consist of a machine gun with unlimited shots, and a limited supply of hand grenades, which you may replenish by taking from the enemy.

GOOD LUCK!

- * Use JOYSTICK to maneuver the soldier.
- * Use RIGHT BUTTON to fire Machine gun.
- * Use LEFT BUTTON to hurl hand grenades.
- * Dodge all bullets and grenades. Do not collide with enemy soldiers!
- * Destroy as many of the enemy as possible.
- * Pick up enemy grenades (one grenade per box) and use them against the enemy.
- * Extra 'lives' are awarded for exceeding certain scores.
- * Score higher points by destroying enemy leaders and enemy headquarters.
- * Score bonus points by rescuing captives.
- * The arch bridge is a dangerous spot! Watch for attacks from above!
- * Be careful of trucks and jeeps that may try to ram you!
- * Do not fall into rivers or ponds.
- * Trees, walls and other obstacles can be used for cover.

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C O M M A N D O OPTION SWITCH SETTINGS

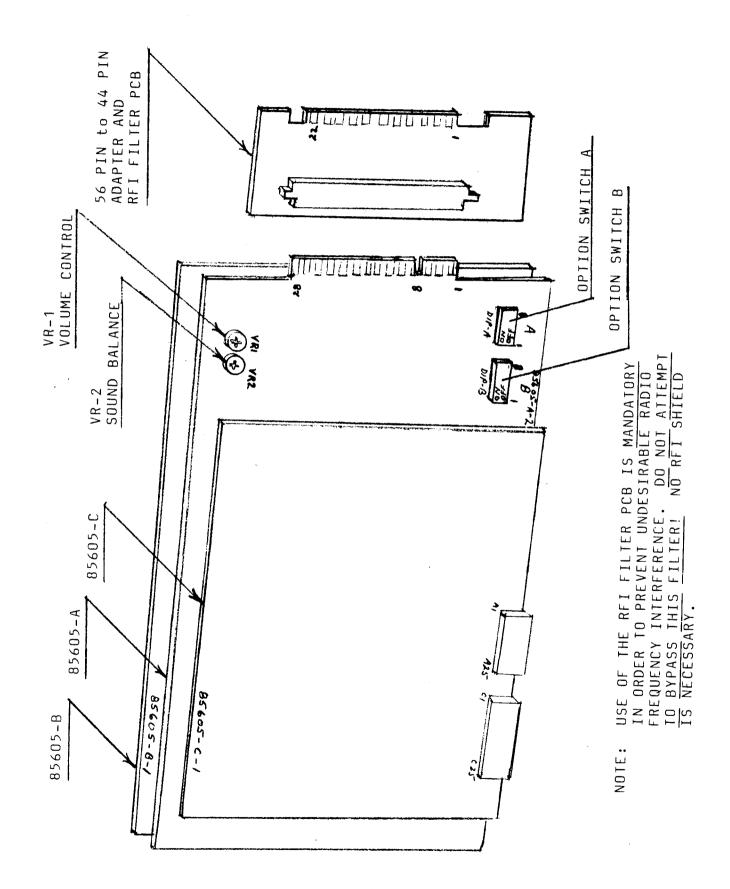
SWITCH A

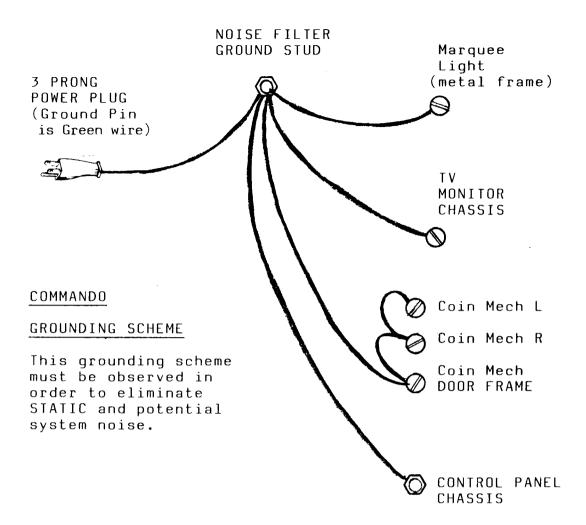
OPTION			1	2	3	4	5	6	7	8
	1 Coin - 1 Credit			OFF						
COIN 1	1 Coin - 2 Cr	edit	ON	OFF						
1 WAY	1 Coin - 3 Cr	edit	OFF	ON						
	2 Coin - 1 Cı	edit	ON	ON						
	1 Coin - 1 Cr	redit			OFF	OFF				
COIN 2	2 Coin - 1 Cr	redit			ON	OFF				
2 WAY	3 Coin - 1 Cı	redit			OFF	ON				
	4 Coin - 1 Cr	redit			ON	ON				
		· 3					OFF	OFF		
NUMBER (OF LIVES	2					ON	OFF		
(FI0	GHTERS)	4					OFF	ON		
		5					ON	ON		
	0 (Forest	1)							OFF	OFF
STARTING 2 (Desert 1)								ON	OFF	
AREA	4 (Forest	2)							OFF	ON
	6 (Desert	2)							ON	ON

SWITCH B

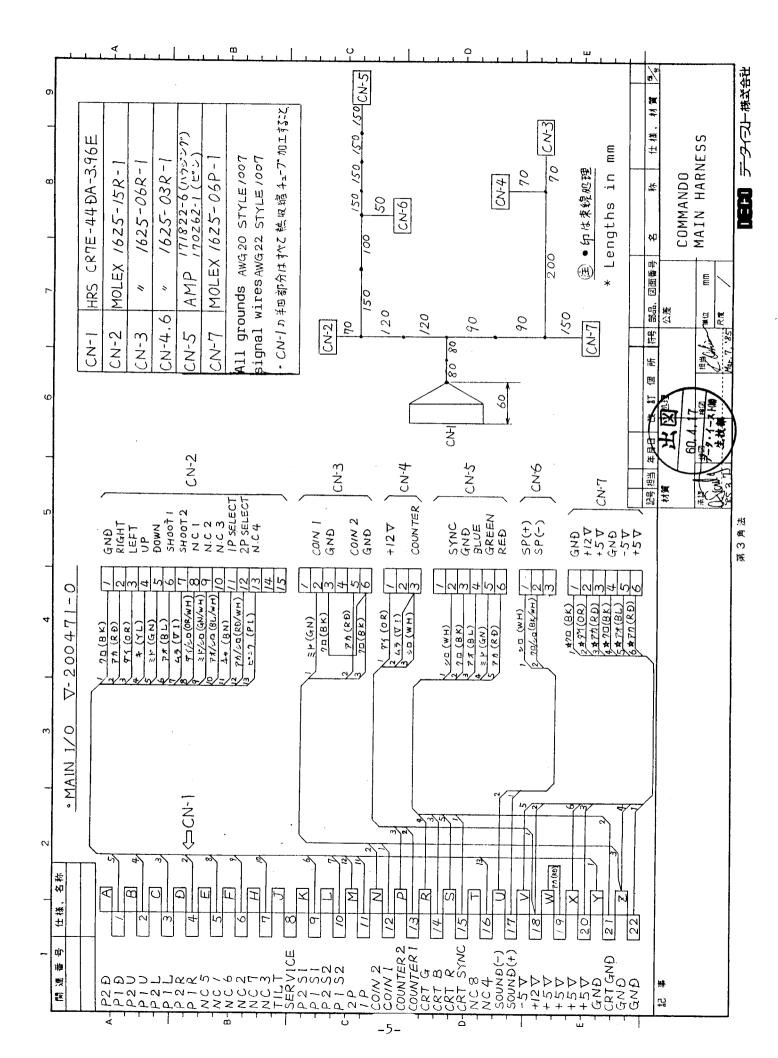
SMITCH E) 				,						
OPTION			1	2	3	4	5	6	7	8	
COCKTAIL	TABLE			OFF							· '
UPRIGHT				ON							
JOYSTICK	2 WAY			ON	OFF						
JOYSTICK	1 WAY			ON	ON						
MONITOR	REVERSE	SWITCH				OFF					
			İ			ON					
0.155.1011		NORMAL					OFF		•		
DIFFICU	LIY	DIFFICULT					ON				
		SOUND ON						OFF			
ATTRACT	MUDE	SOUND OFF						ON			
	10,000	& after 50,00	00						OFF	OFF	OFF
	10,000	& after 60,00	0	:					ON	OFF	OFF
BONUS	20,000	& after 60,00	00						OFF	ON	OFF
'LIFE'	20,000	& after 70,00	00						ON	ON	OFF
AWARD	30,000	& after 70,00	00						OFF	OFF	ON
	30,000	& after 80,00	00						ON	OFF	ON
	40,000	& after 100,0	000						OFF	ON	ON
		JS LIVES GIVEN					İ		ON	ON	ON

C O M M A N D O PCB IDENTIFICATION AND COMPONENT LOCATIONS





- 1. Ground wire of 3 prong power plug to be connected to Ground Stud on Noise Filter.
- 2. Marquee Light metal frame to be connected to ground stud on Noise Filter.
- 3. IV Monitor Chassis to be connected to ground stud on Noise Filter.
- 4. Coin Mech L, Coin Mech R and Coin Mech Door Frame to be connected to ground stud on Noise Filter.
- 5. Control Panel Chasis to be connected to ground stud on Noise Filter.
- 6. All connections must have good mechanical & electrical bond.
- 7. All connections to be made with #18 or larger green wire.



GND A I GND GND B 2 GND +5 C 3 +5 +5 D 4 +5 G E 5 R SYNC F 6 B GND H 7 GND KEYWAY J 8 KEYWAY 2P SHOT 2 K 9 SHOT 2 SHOT 1 L IO SHOT 1 UP I M II UP I DOWN 1 N I2 DOWN I LEFT I P I3 LEFT I RIGHT I R I4 RIGHT I GND S I5 GND 2P SELECT T I6 IP SELECT (D5) U I7 (D4) COIN 2 V IB COIN I GND W I9 GND X 20 Y 21 +12V COMMON Z 22 +12V COMMON COUNTER 2 G 23 COUNTER I SP ⊕ b 24 SP ⊕ +12 C 25 +12 GND (12V) d 26 GND (12V) GND e 27 GND GND f 28 GND					
GND B 2 GND +5 C 3 +5 +5 D 4 +5 © E 5 R SYNC F 6 B SYNC F 6 B GND H 7 GND KEYWAY J 8 KEYWAY 2P SHOT 2 K 9 SHOT 2 SHOT 1 L 10 SHOT 1 UP 1 M 11 UP 1 DOWN 1 N 12 DOWN 1 LEFT 1 P 13 LEFT 1 RIGHT 1 R 14 RIGHT 1 GND S 15 GND 2P SELECT T 16 IP SELECT (D5) U 17 (D4) COIN 2 V 18 COIN 1 GND W 19 GND X 20 Y 21 +12V COMMON Z 22 +12V COMMON COUNTER 2 0 23 COUNTER 1 SP	SOLDER SIDE				COMPONENT SIDE
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DOWN 1 N 12 DOWN 1 LEFT 1 P 13 LEFT 1 RIGHT 1 R 14 RIGHT 1 GND S 15 GND 2P SELECT T 16 IP SELECT (D5) U 17 (D4) COIN 2 V 18 COIN 1 GND W 19 GND X 20 Y 21 +12V COMMON Z 22 +12V COMMON COUNTER 2 Q 23 COUNTER 1 SP	20	UPI	М	11	
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GND S 15 GND 2P SELECT T 16 IP SELECT (D5) U 17 (D4) COIN 2 V 18 COIN 1 GND W 19 GND X 20 Y 21 +12V COMMON Z 22 +12V COMMON COUNTER 2 Q 23 COUNTER 1 SP — b 24 SP + +12 c 25 +12 GND (12V) d 26 GND (12V) GND e 27 GND		LEFT I	Р	13	LEFT I
2P SELECT T 16 IP SELECT (D5) U 17 (D4) COIN 2 V 18 COIN 1 GND W 19 GND X 20 Y 21 +12V COMMON Z 22 +12V COMMON COUNTER 2 a 23 COUNTER 1 SP b 24 SP + +12 c 25 +12 GND (12V) d 26 GND (12V) GND e 27 GND		RIGHT I	R	14	RIGHT 1
(D5) U 17 (D4) COIN 2 V 18 COIN 1 GND W 19 GND X 20 Y 21 +12V COMMON Z 22 +12V COMMON COUNTER 2 a 23 COUNTER 1 SP b 24 SP + +12 c 25 +12 GND (12V) d 26 GND (12V) GND e 27 GND		GND	S	15	GND
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Y 21 +12V COMMON Z 22 +12V COMMON COUNTER 2 a 23 COUNTER 1 SP — b 24 SP + +12 c 25 +12 GND (12V) d 26 GND (12V) GND e 27 GND		GND	W	19	GND
+12V COMMON Z 22 +12V COMMON COUNTER 2 a 23 COUNTER I SP — b 24 SP + +12 c 25 +12 GND (12V) d 26 GND (12V) GND e 27 GND			X	20	·
COUNTER 2 a 23 COUNTER I SP			Y	21	
SP — b 24 SP + + 12 c 25 + 12 GND (12V) d 26 GND (12V) GND e 27 GND	+12V	COMMON	Z	22	+12V COMMON
+ 12	со	UNTER 2	a	23	COUNTER I
GND (12V) d 26 GND (12V) GND e 27 GND		SP 🗇		24	SP +
GND e 27 GND		+ 12		25	+12
		GND (12V)		26	GND (12V)
GND f 28 GND		GND	е	27	GND
GIAD 1 20 GIAD		GND	f	28	GND

FDGE · CONNECTOR ナ ₩ 85605一追黄-1 -0.500

1/2

*

CR7E - 56DA - 3.96E: HIROSE or CONNECTOR TYPES

1168 - 056 - 009 : KEL

¥

COMMANDO EDGE CONNECTOR 85605 Sheet 1/2

E,

P

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C O M M A N D O

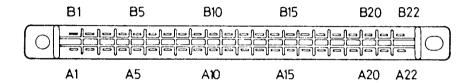
56 PIN TO 44 PIN ADAPTOR & RFI FILTER PCB MAIN HARNESS CONNECTIONS

a) CONNECTOR CR7E-44DA-3.96E (HIROSE) $3.96 \, \text{mm}$

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22



b) CONNECTOR 1168-044-009 (KEL) $3.96\,\text{mm}$



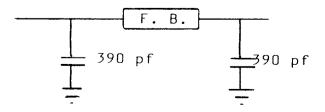
56 PIN to 44 PIN ADAPTER AND RFI FILTER PCB MAIN HARNESS CONNECTIONS

COMPONENT SIDE			SOLDER SIDE			
Pin	Nos	Signal	Pin	Nos	Ci ~~ al	
	KEL			KEL	Signal	
1	В1	1P DOWN	A	A 1	2P DOWN	
2	B2	1P UP	В	A 2	2P UP	
3	В3	1P LEFT	С	A 3	2P LEFT	
4	В4	1P RIGHT	D	A 4	2P RIGHT	
5	В5	•	Е	A 5		
6	В6		F	A 6		
7	B 7		Н	A 7		
8	В8		J	A 8		
9	В9	1P SHOOT 1	K	A 9	2P SHOOT 1	
10	B10	1P SHOOT 2	L	A10	2P SHOOT 2	
11	B11	1P GAME SELECT	M	A11	2P GAME SELECT	
12	B12	COIN 1	N	A12	COIN 2	
13	B13	COIN COUNTER 1	Р	A13	COIN COUNTER 2	
1 4	B14	TV.B	R	A14	TV.G	
15	B15	SYNC.	S	A15	TV.R	
16	B16		Т	A16		
17	B17	SPEAKER +	U	A17	SPEAKER -	
18	B18	+12V	V	A18		
19	B19	+ 5 V	W	A19	+ 5 V	
20	B20	+ 5 V	X	A20	+ 5 V	
2.1	B21	TV.GND	Y	A21	GND	
22	B22	GND	Z	A22	GND	

56 PIN to 44 PIN ADAPTER & RFI FILTER PCB

The COMMANDO game was developed by CAPCOM CO. Ltd., who also produces the PC Board. The game developer has made no provision for compliance with Federal Communication Commission Rules and Regulations regarding Radio Frequency Interference generated by Class A computing devices. In order to ensure compliance with those regulations, DATA EAST has designed adequate RFI Filtering into the adapter PC Board. This PCB also serves as the interface between the COMMANDO 56 pin edge connector and the DATA EAST 44 pin connector.

All signals and voltages entering or leaving the COMMANDO PCB pass through a 'PI' filter network, with the exception of the ground connections and the R,G,B, & Sync signals for the Monitor, which are routed through a ferrite bead, in order to suppress unwanted radiation. Refer to the pin-out tables on pages 6 and 7 for guidance in tracing signals through this Adapter/Filter PCB.



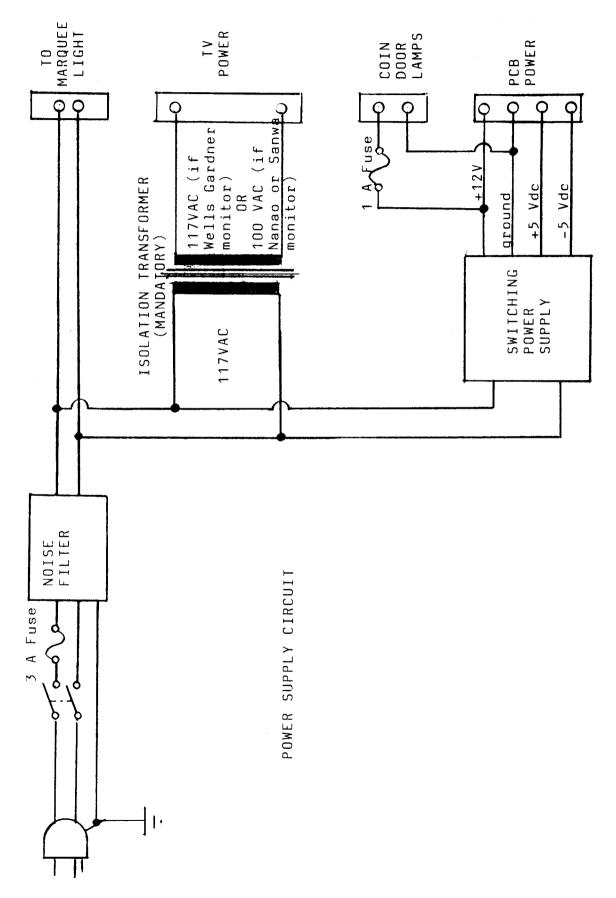
TYPICAL FILTER NETWORK

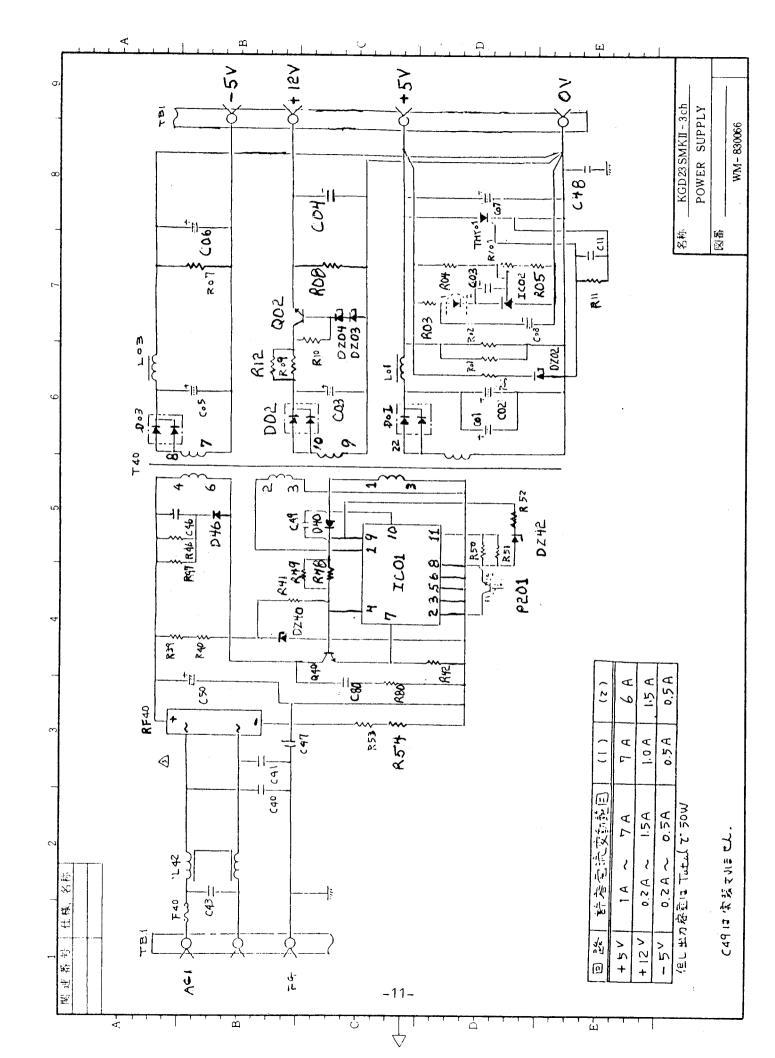
D		С
SCR B	1	SCR C
FLIP	2	SCR A
ОН	3	6M
4H	4	4-3H
H2	5	ні
нв	6	H4
H32	7	H16
HI28	8	H64
LHBL	9	H256
V2	10	VI
V8	11	V4
V32	12	VI6
VI28	13	V64
OBJ G	14	овјн
OBJ E	15	OBJ F
ову с	16	OBJ D
ОВЈ А	17	OBJ B
	18	HINIT
	19	
	20	
	21	
+5٧	22	+ 5V
	23	
	24	
	25]

В		 А		
	1	1	DBO	
		2	DB I	
		3	DB2	
	į	4	DB3	
-		5	DB4	!
GND		6	DB5	i
		7	DB6	
		8	DB7	
		9	1	
		10		
		11	GND	ļ
SCR G		12		
C8CS		13	ABO	
D8CS		14	ABI	
ø SC		15	AB2	
SCR D		16	AB3	
SCR E		17	AB4	
SCR F		18	AB5	:
ACL 2		19	AB6	1
OKOUT		20	AB7	
AKB RQB BLCNTEN WRB		21	AB8	
		22	AB9	
		23	ABIO	
		24	ABII	
RDB	2	25	ABI2	

JOINT

CONNECTOR

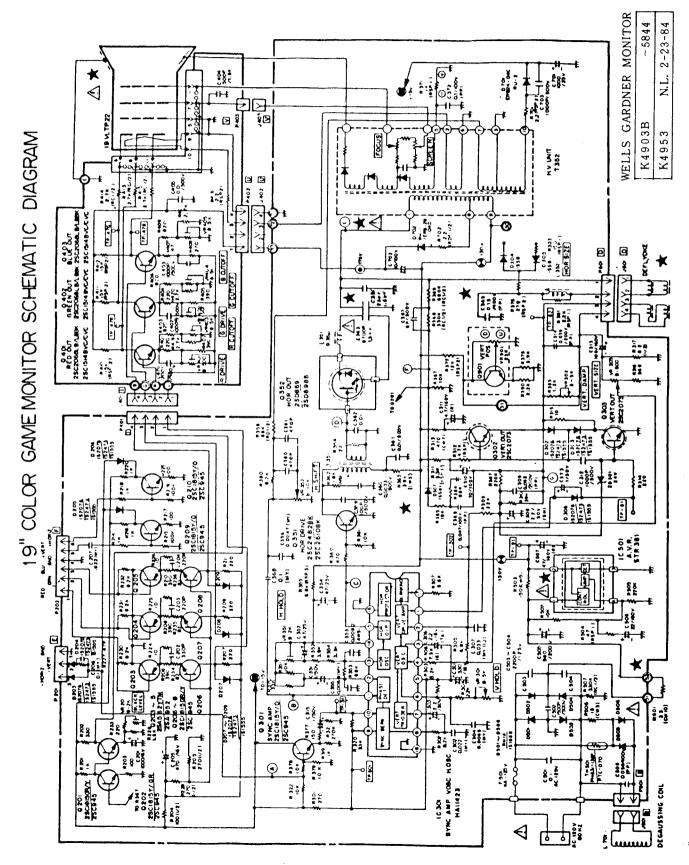


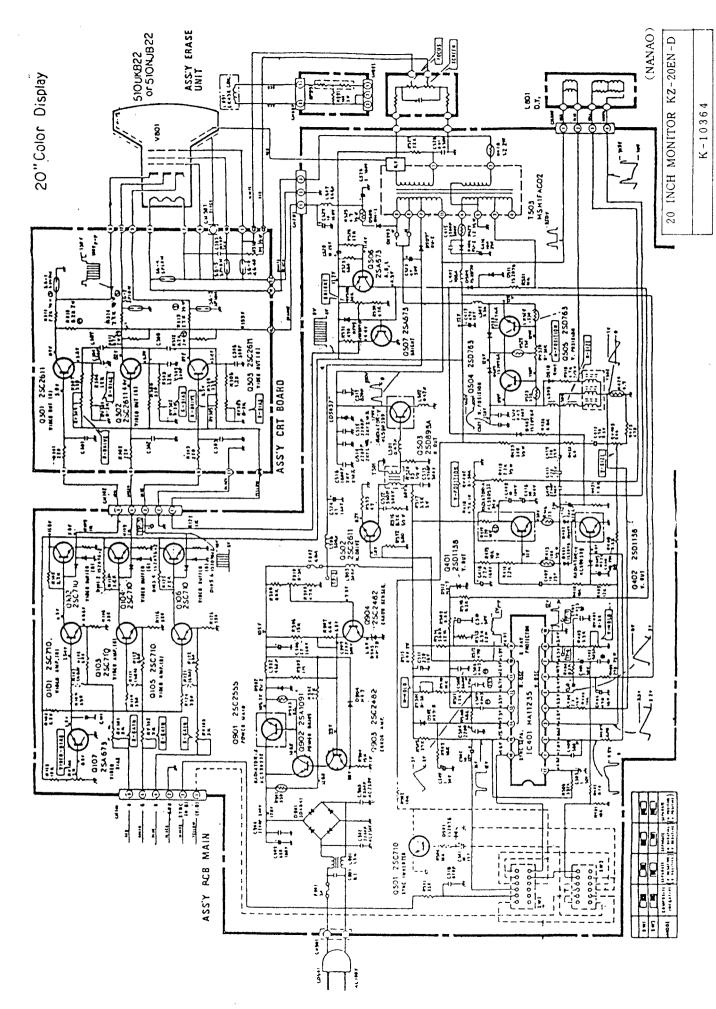


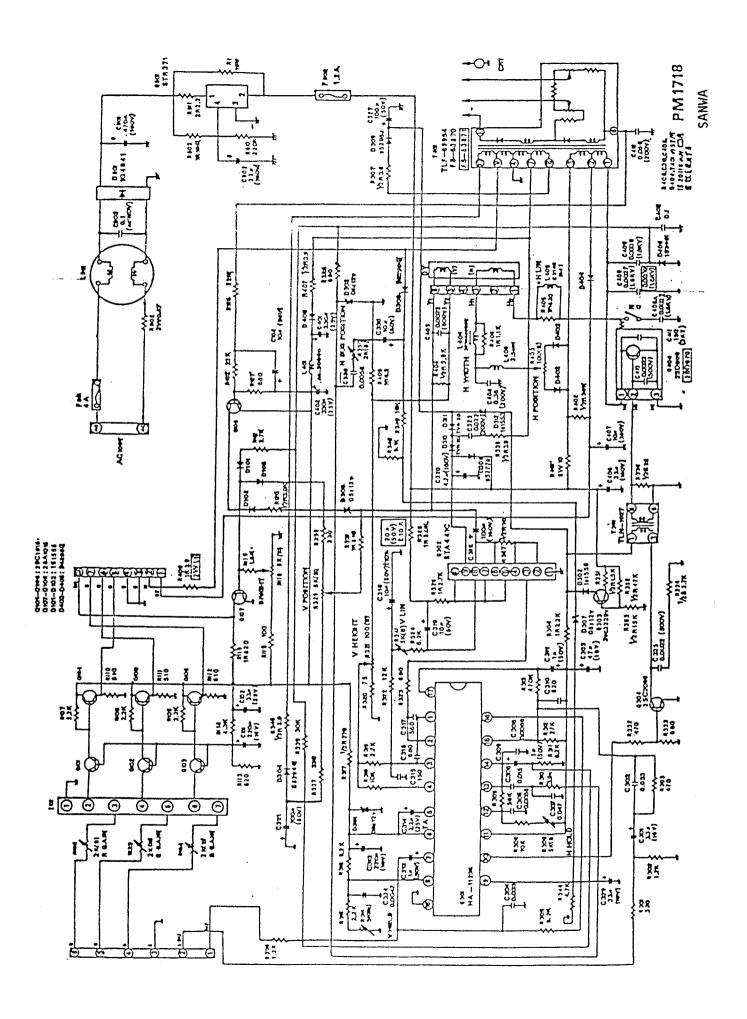
POWER SUPPLY Model KGD23SMK-II

Item	Parts Nos	Description	Specification	Q'ty	Manufacture
1.	F40	Fuse	GHS 5	1	Nagasawa
2.	T40	Transformer		1 .	Shindengen
3.	L42	Common Mode Choke	UF327S 602YIRO	1	TDK
4.	Q40	Transistor	2SC3306	1	Toshiba
5.	RF40	Bridge Rectifier	S3WB 40	1	Shindengen
6.	D40	Diode	V19C	1	Hitachi
7.	D46	Diode	V19G	1	Hitachi
8.	DZ40	Zener Diode	HZ16-1	1	Hitachi
9.	IC01	HB IC	RHD01-2	1	Nichi-con
10.	PC01	Photo Coupler	PS 2018	1	Nichiden (NEC)
11.	C40, 41	Ceramic Capacitor	DE7090B 102KVAI 125V 1,000pf	2	Murata
12.	C47	Ceramic Capacitor	- ditto-	1	Murata
13.	C80	Ceramic Capacitor	DE0707B 681K 2KV DC 680p	1	Murata
14.	C42	Film Capacitor			
15.	C43	Film Capacitor	QXM2G 104KT 400V 0.1μf	1	Nichi-con
16.	C46	Film Capacitor	ECQ-E2 104KS 200V 0,1µf	1	Matsushita
17.	C48	Film Capacitor	ECQ-E6 473KZ 400V 0.047μf	1	Matsushita
18.	C50	Electrode Capacitor	LJA2D471 THSCBV 200V 470µf	1	Nichi-con
19.	R37, 40	Resistor	ERG-1SJ 393H	2	Matsushita
20	R47, 46	Resistor	ERG-2SJ 223H	2	Matsushita
21.	R48, 49	Resistor	ERG-3SJ 560H	2	Matsushita
22.	R80	Resistor	ERG-2SJ 330H	1	Matsushita
23.	R42	Metal Plate Resistor	MFC 70 0.22 ohm	1	Fukushima Futaba
24.	R53, 54	Coil Resistor	MNS 05N 1ROJ	2	Micron
25.	R41	Carbon Resistor	1/4W 10K ohm	1	
26.	R 50	Carbon Resistor	1/4W 680 ohm	1	
26.	R51	Carbon Resistor	1/4W 12K ohm	1	
28.	R52	Carbon Resistor			
29.	L01	Choke	RD1113A 3J 3uH 10A	1	Hokkoh
30.	L03	Choke	RD810A 3F 3uH 5A	1	Hokkoh
31.	Q02	Transistor	2SD1022 or 2SD1308	1	Shindengen
32.	D01	Diode	ESAC 83-004	1	Fuji Denki
33.	D02	Diode	5CH2M or ESAC25-020	1	Fuji Denki or NEC
34.	D03	Diode	– ditto –	1	Fuji Denki
35.	DZ02	Zener Diode	HZ 6B-2	1	Hitachi
36.	DZ03	Zener Diode	HZ 12B-1L	1	Hitachi
37.	THY01	Thyristor	5PIM or SF5B41	1	NEC or Toshiba
38.	IC02	I.C.	TL431 CLP	1	T.I.
39.	C01, 02	Capacitor	SXA 16VB 2200	2	Nichi-Chemi
40.	C03, 05	Capacitor	CEUSM 1V 471 35V 470µf	2	Nichi-con

Item Parts Nos		Description	Specification	Q'ty	Manufacturer
41.	C04	Capacitor	CEUSM 1E 331 25V 330µF	1	Nichi-con
42.	C07, 06	Capacitor	CEUSM 1E 331 25V 330µf	2	Nichi-con
43.	C08	Capacitor	CEUSM 1H 010 ·	1	Nichi-con 50V 1µf
44.	C09	Capacitor	CEUSM 1V 4R7 35V 4.7μf	1	Nichi-con
45.	C11	Film Capacitor	TDY1H/2A 104K 50V 0.1µf	1	Nichi-con
46.	R01, 13	Resistor	ERG 3SJ 680H	2	Matsushita 3W 689
47.	R08	Resistor	ERG3SJ 271H	1	Matsushita 3W 270s
48.	R09	Resistor	ERG 2SJ R68 2W 0.68 ohm	1	Matsushita
49.	R10	Resistor	ERG 1SJ 271 1W 270 ohm	1	Matsushita
50.	RV01	Volume	EVM38GA 00B52 500 ohm	1	Matsushita
51.	R03	Carbon Resistor	1/4W 68 ohm	1	
52.	R04, 11	Carbon Resistor	1/4W 560 ohm	2	
53.	R05	Carbon Resistor	1/4W 390 ohm	1	
54.	R06	Carbon Resistor	1/4W 15 ohm	1	
55.	R02				
56.		P.C. Board		1	
57.	TB1	Terminal Strip		1	
58.		Terminal	Faston	7	

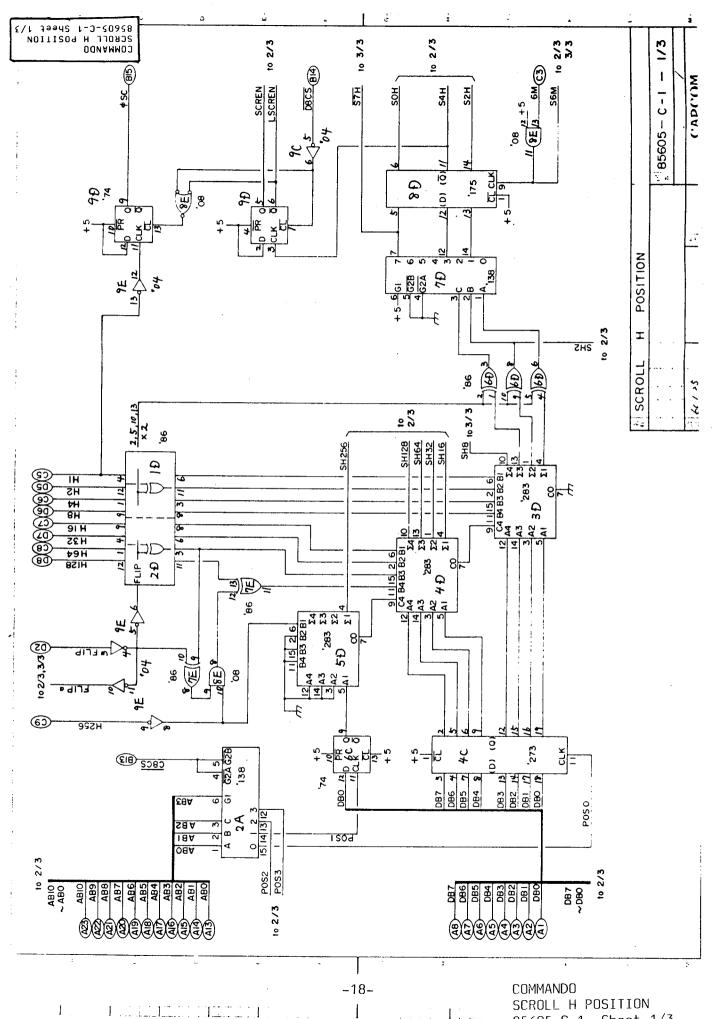




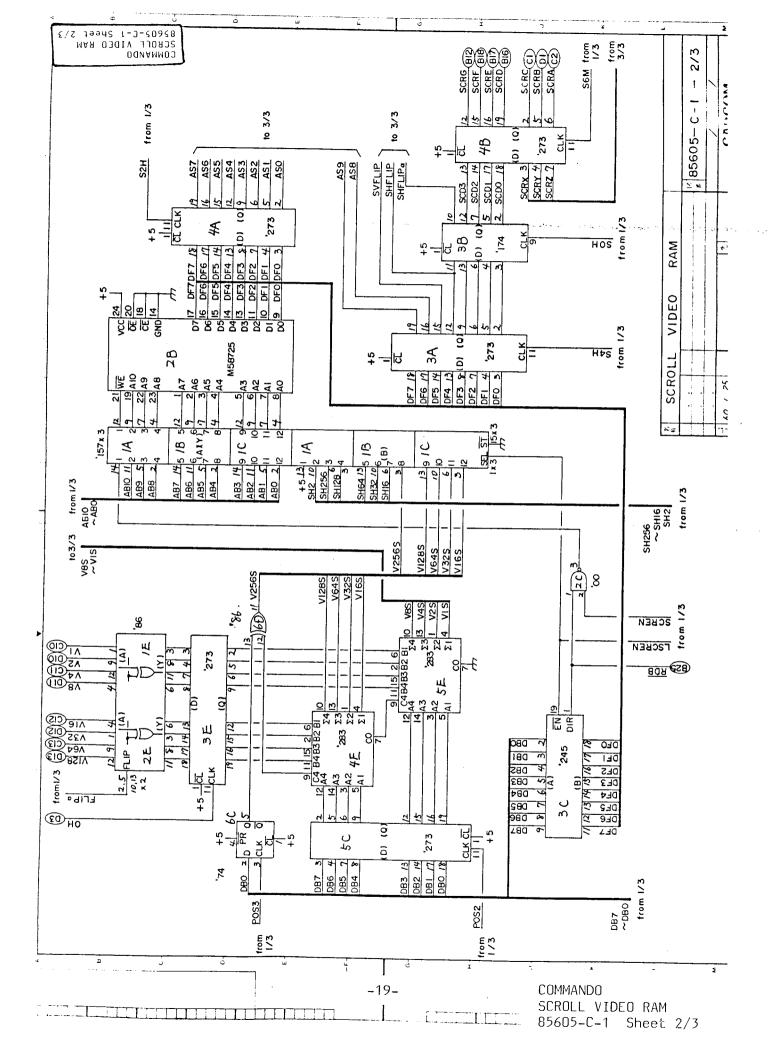


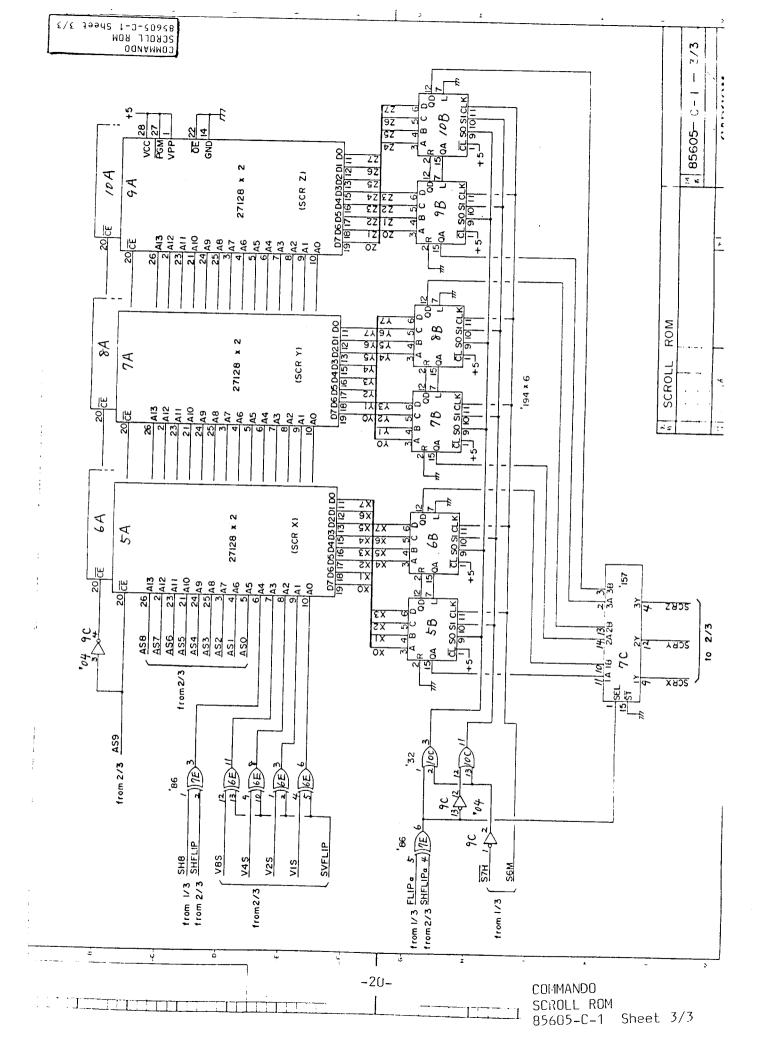
R 51 1/53.3K

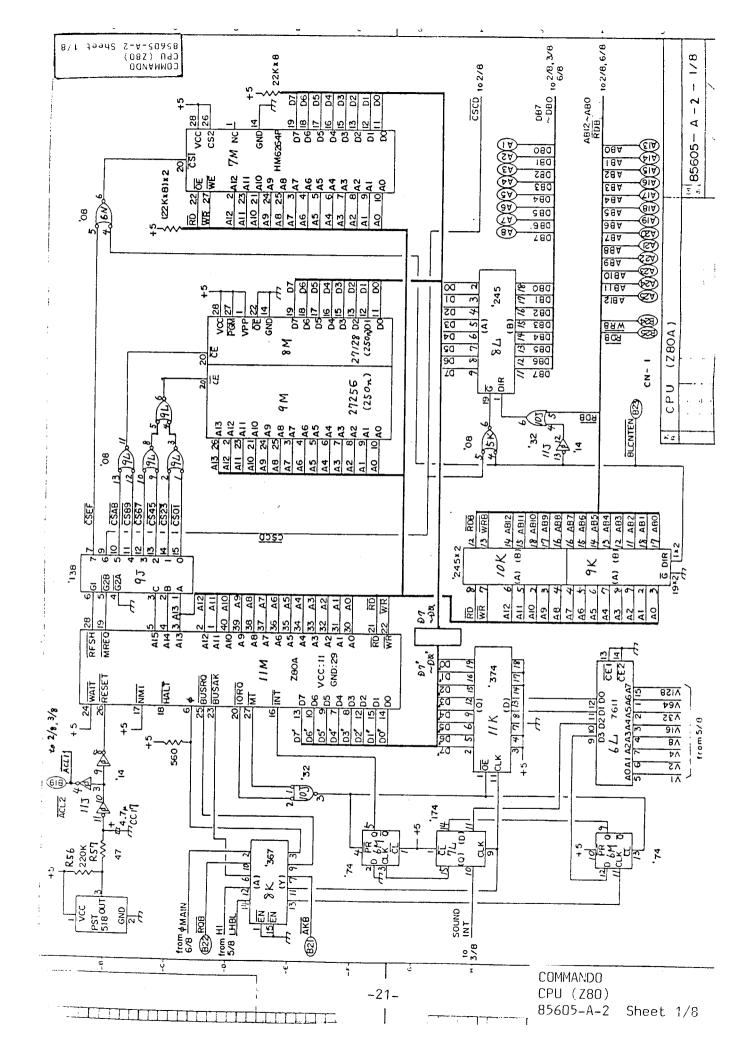
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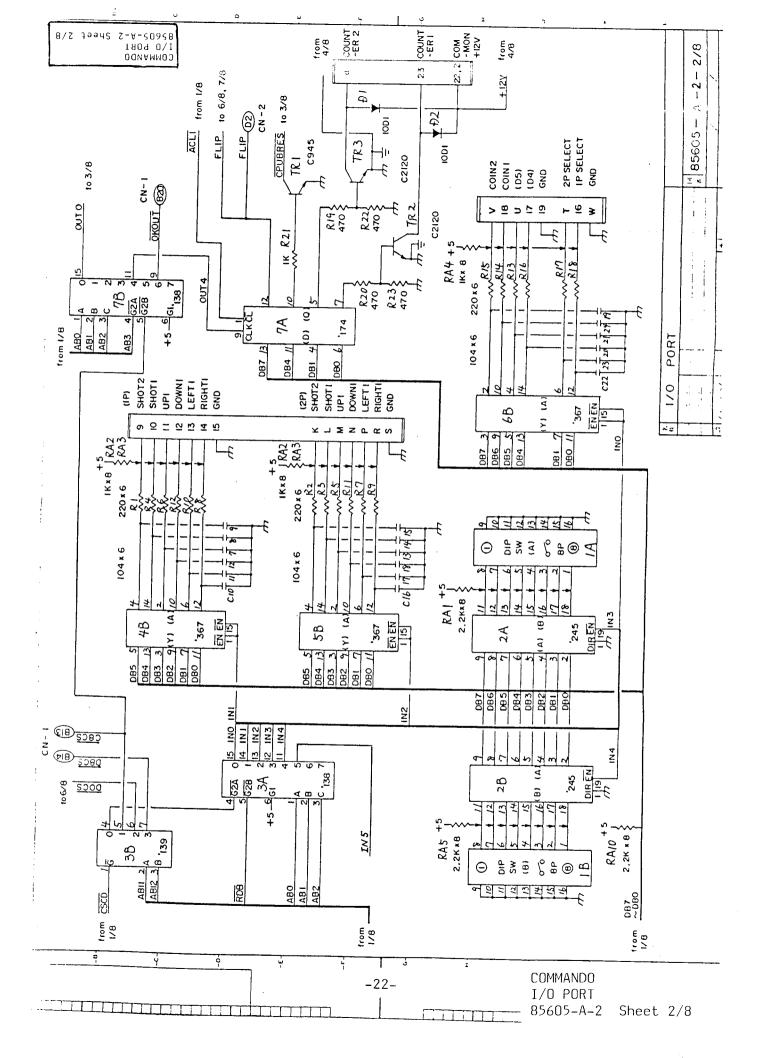


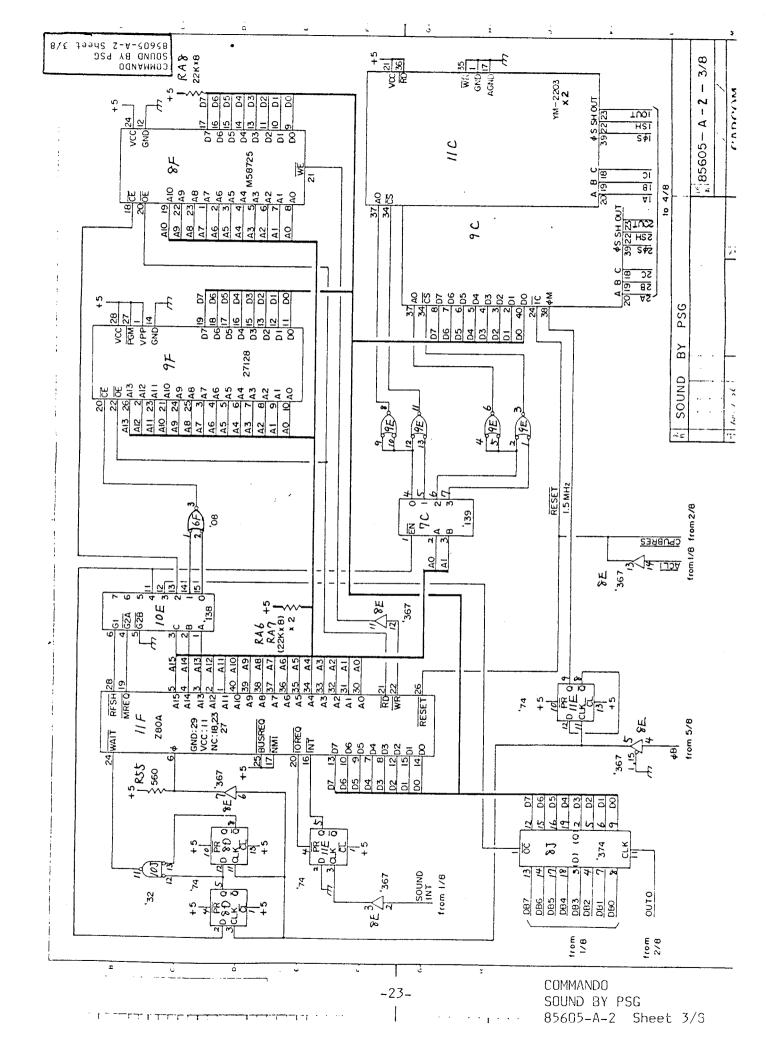
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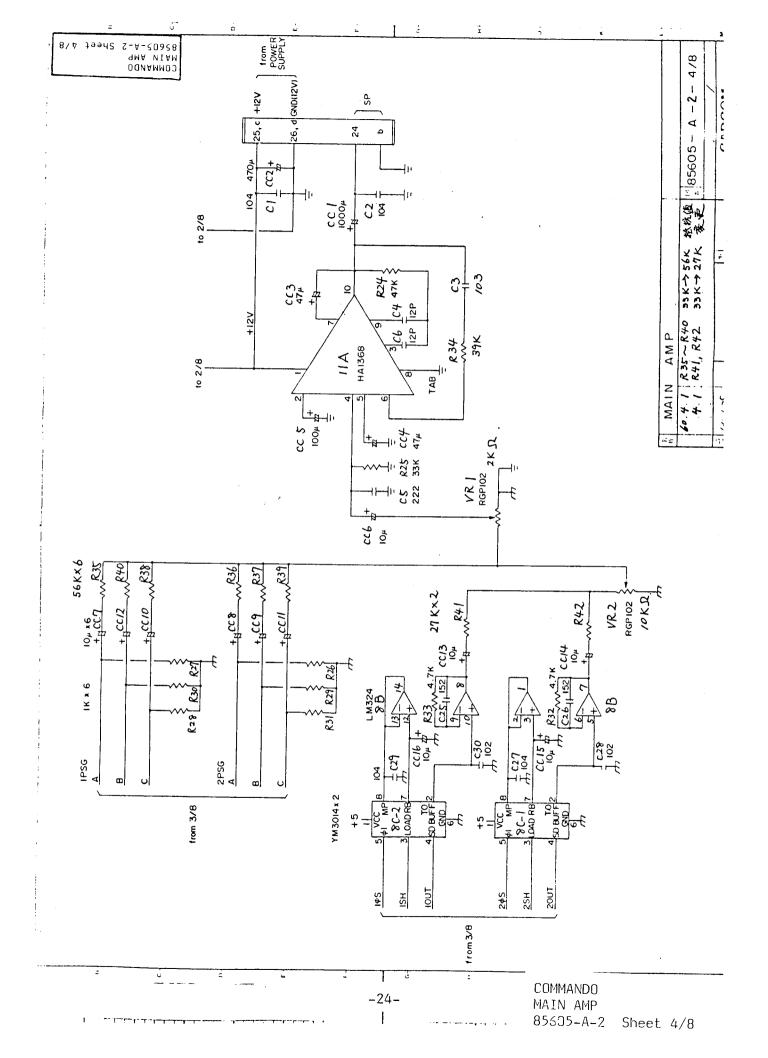


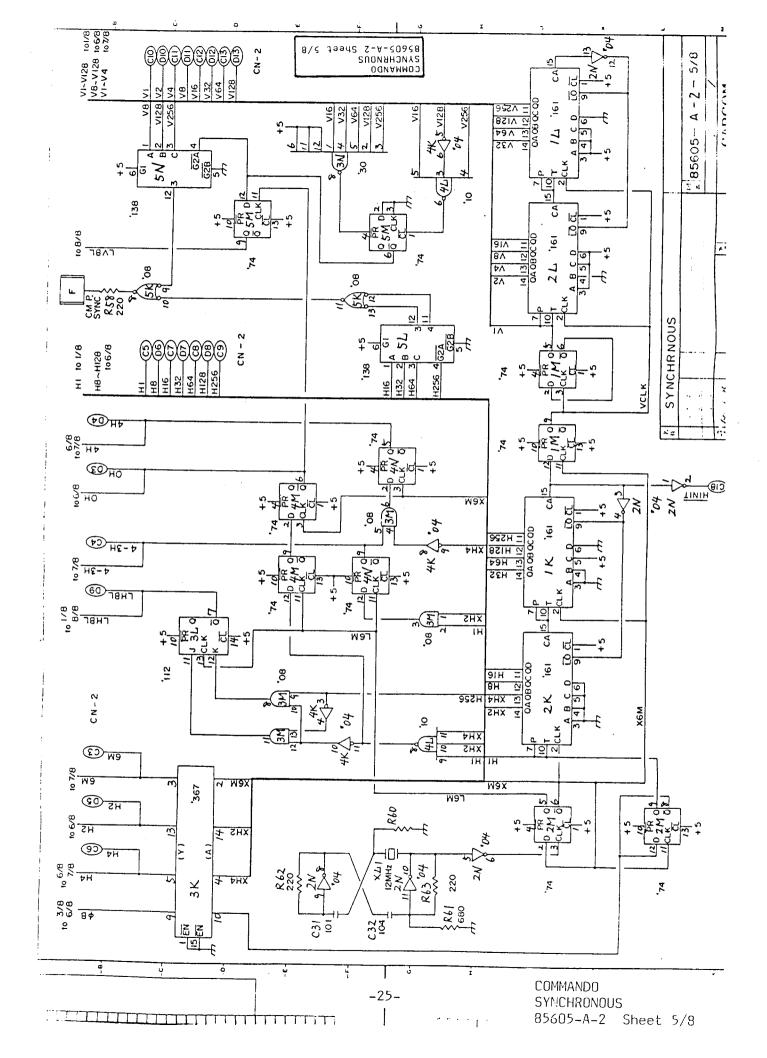


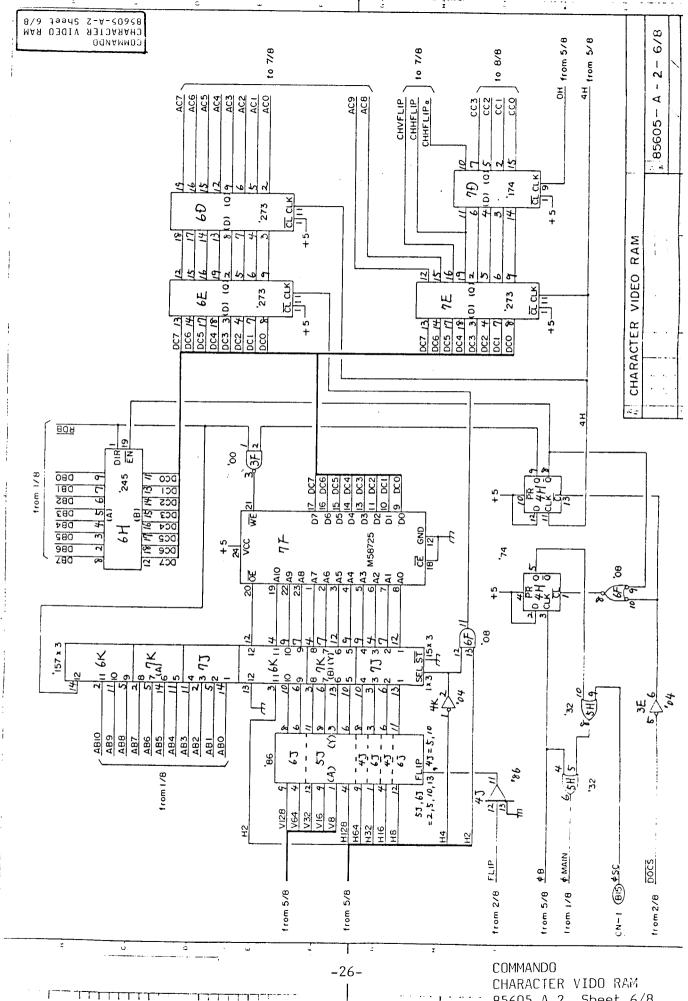


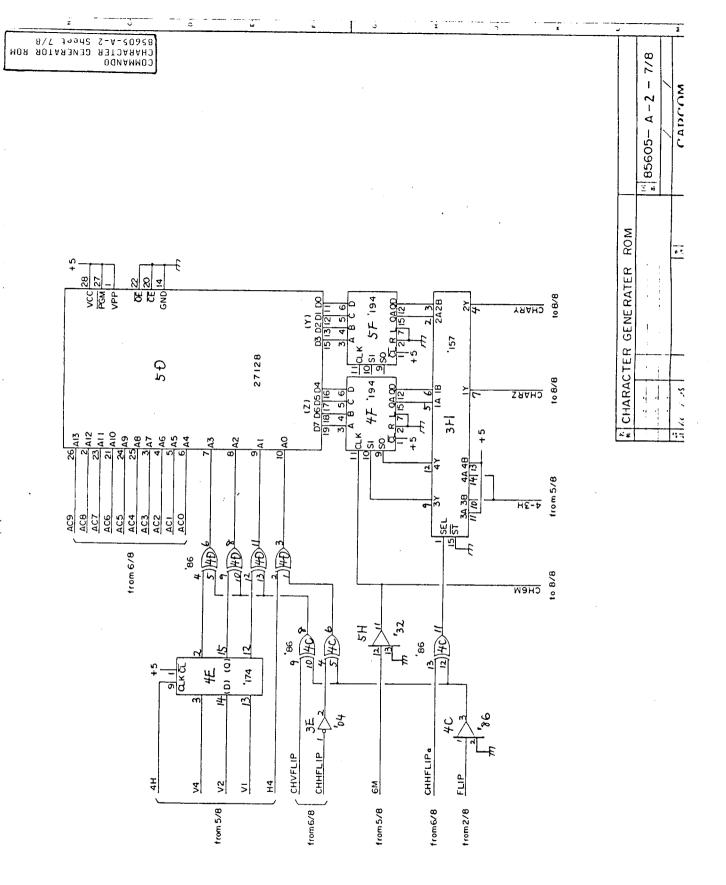






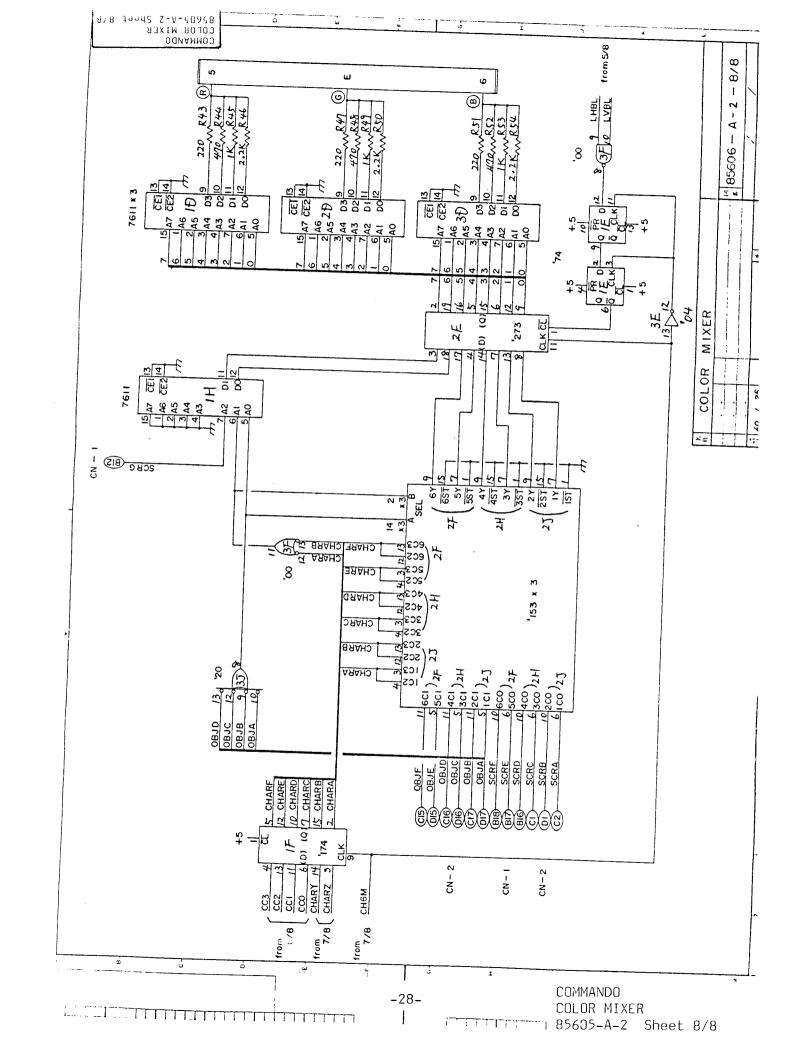


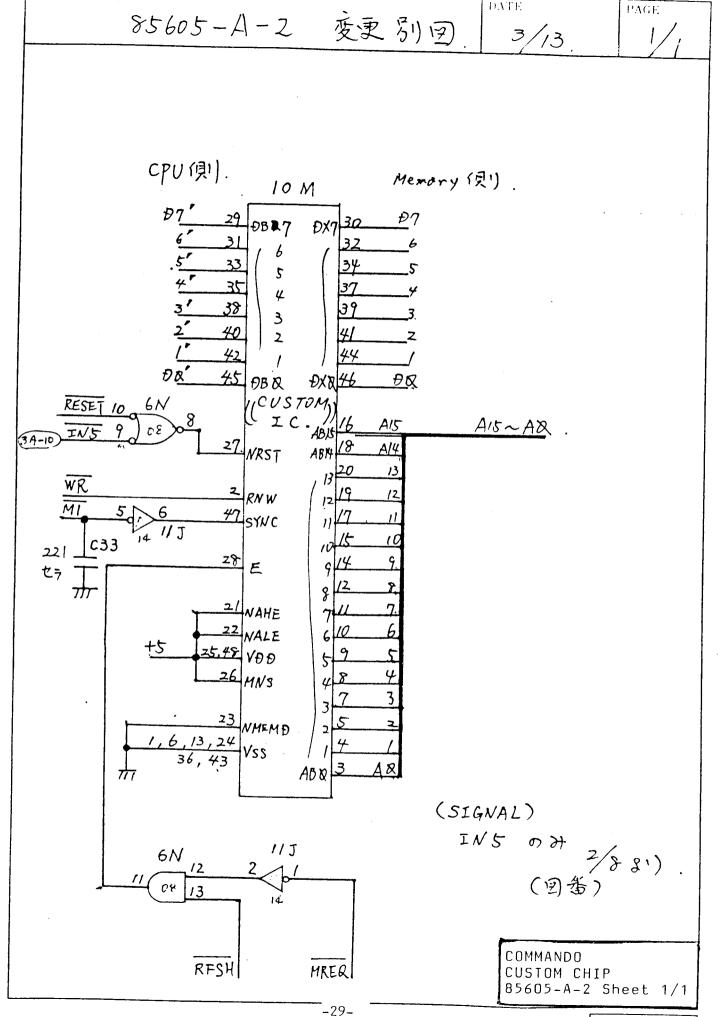




COMMANDO CHARACTER GENERATOR ROM 85605-A-2 Sheet 7/8

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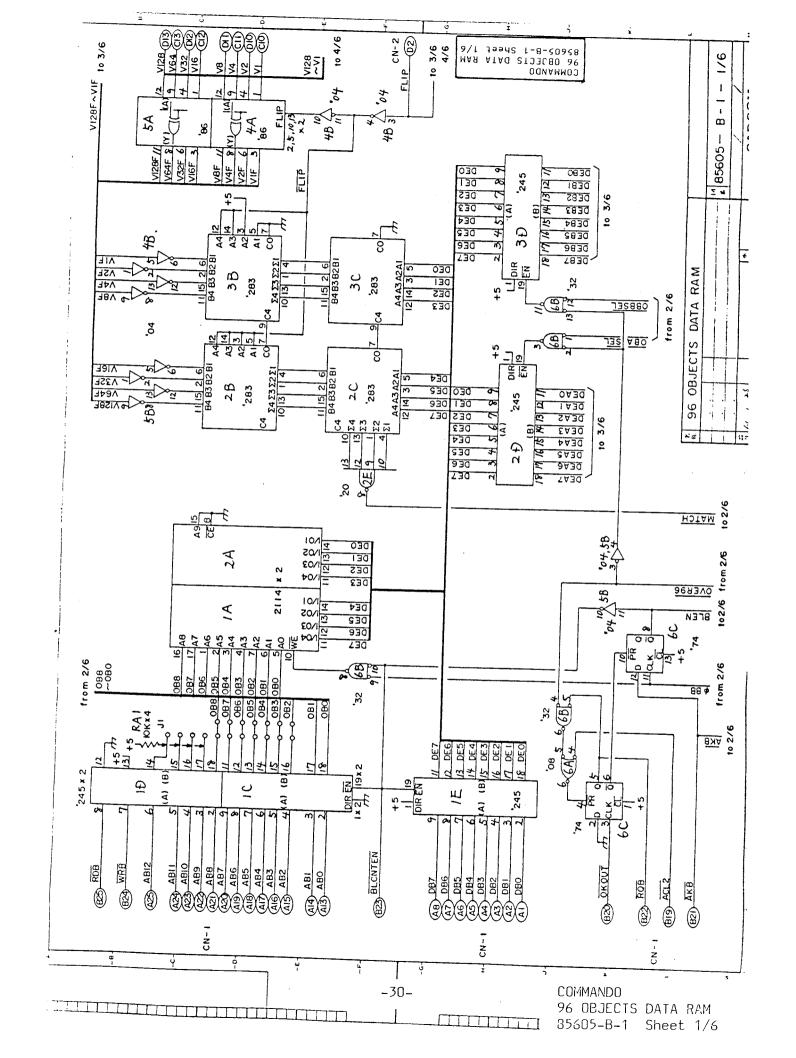


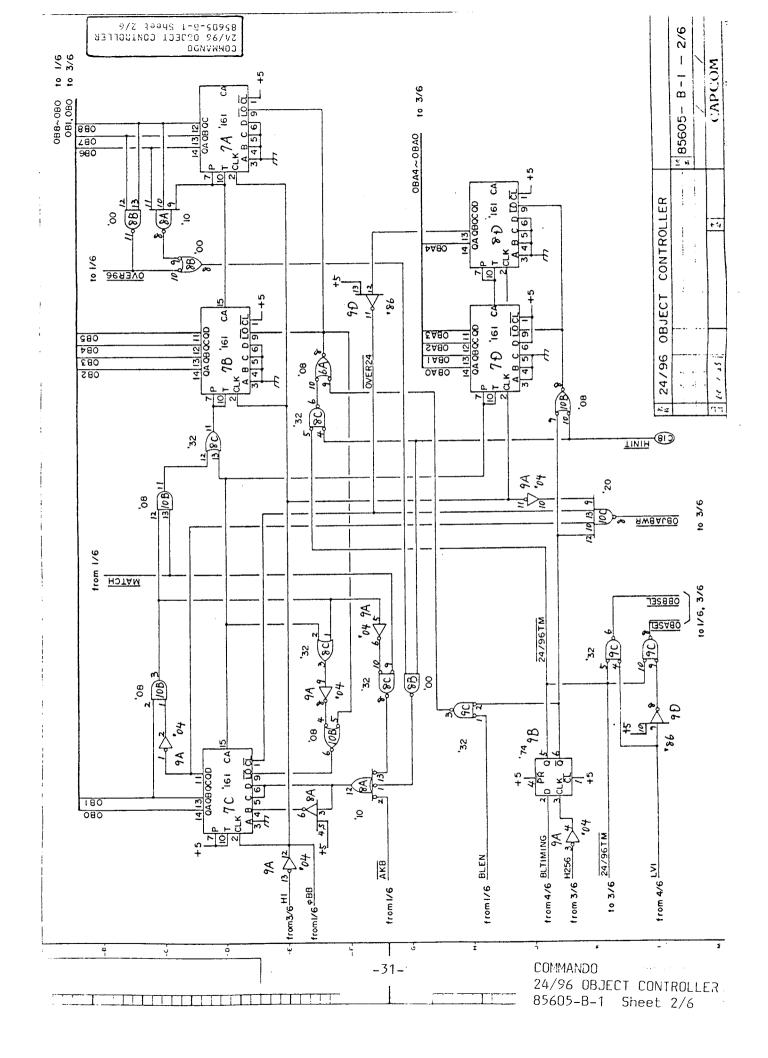


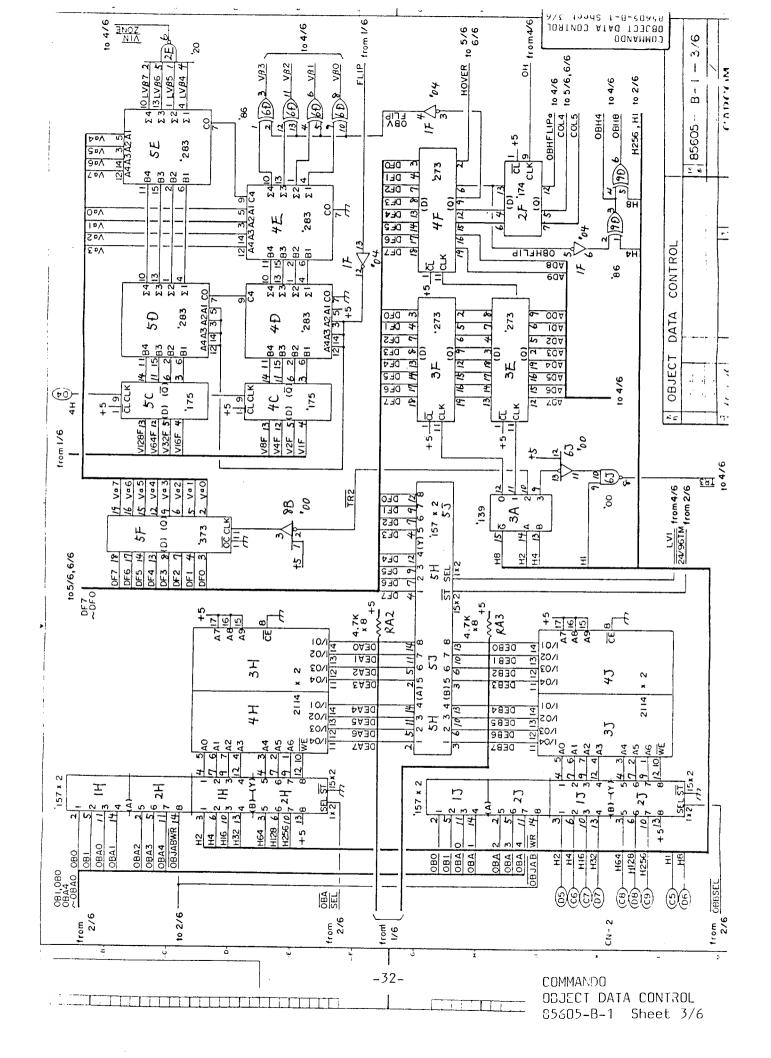
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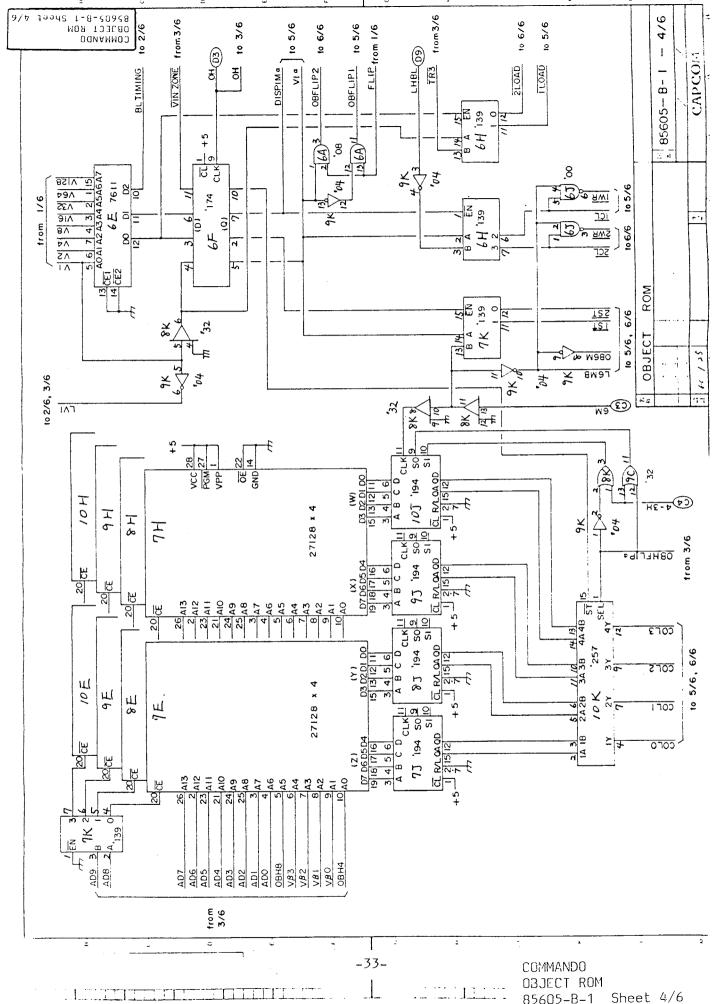
tiri.r.

CAPCOM

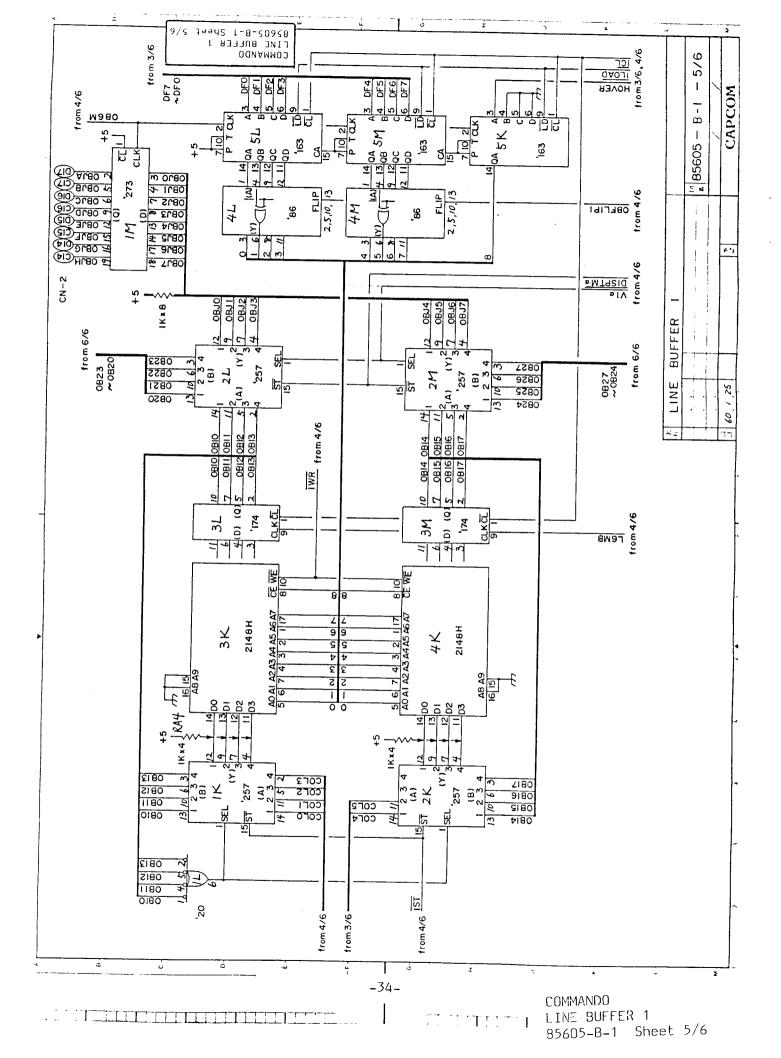


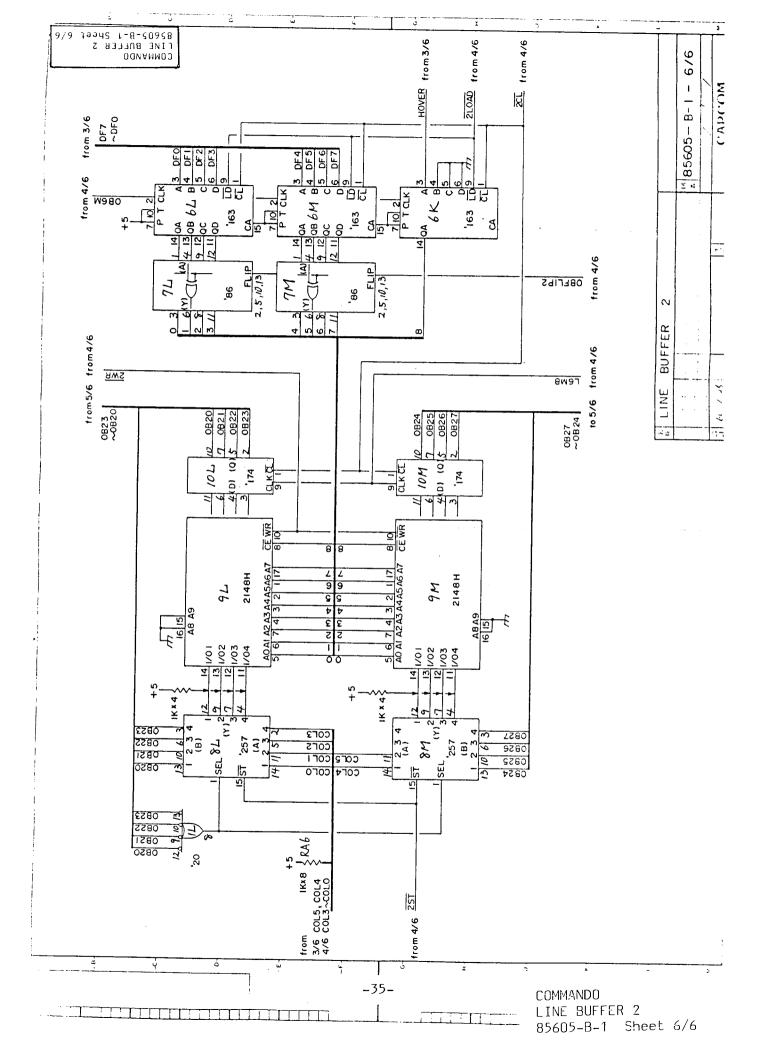






85605-B-1





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(90) days

B. Television monitor

(30) days

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