# service & operation manual





## RING KING OPERATION & SERVICE MANUAL

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DATA EAST USA INC. 470 Needles Street San Jose, CA. 95112 1. GAME INSPECTION AND SET UP.

This new game is ready to operate upon removal from the shipping carton. However, your careful inspection prior to applying power is highly recommended. Please follow these steps to ensure that your new game has been delivered to you in good condition.

- a. Carefully examine the exterior of the game cabinet for dents, scratches, chips, or broken parts.
- b. Open the coin door with the keys attached to the joystick. Inside the coin door you will find the cashbox door and rear access door keys. Unlock and remove the rear access door. Inspect the following items:
  - \* Check that all plug-in connectors in the game harnessing are firmly plugged in. Replug any connectors found to be loose or unplugged.
  - \* Check that all socketed integrated circuits on the logic PCBs are firmly seated in their sockets.
  - \* Check all major subassemblies (power supply, monitor, and control panel) for secure mounting.
- c. Plug in the game and watch the screen for the attract mode video.
  Allow 2 full minutes for the monitor to warm up completely. If you have discovered any problems up to this point, contact your distributor immediately.

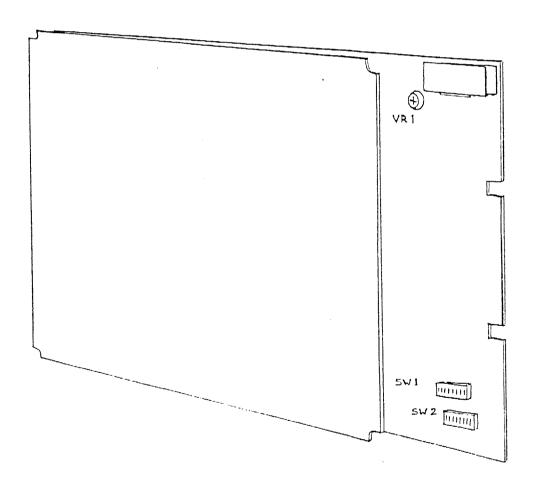
## 2. POWER SWITCH & FUSE INFORMATION

This game features an on/off switch mounted on the Power Supply assembly. Be certain that the switch is in the OFF position before attempting to remove or repair any components in this game. There are also two fuses located next to the switch. They are labeled with their respective current ratings. These should only be replaced with FAST BLOW fuses of the same current rating.

- \* The 3 Amp fuse is on the 115 VAC line. In the event that it should blow, this will remove all power to the game. Check all wiring for proper connections and look for obvious damage to the Monitor, Power Supply, and Logic PCBs before replacing the fuse.
- \* The 1 Amp fuse is for the +12 VDC used for the coin door lamps. In the event that it should blow, the coin door lamps will not be illuminated. Check for damaged wires in the coin door before replacing the fuse.

#### 2. ADJUSTMENTS & SELECTABLE OPTIONS

- A. AUDIO VOLUME. The audio volume is adjustable via a trimpot (VR1) on the Logic PCB. See illustration below for volume control location.
- B. POWER SUPPLY. The +5 volts DC supplied by the Regulator on the Power Supply is adjustable to allow for various load conditions. When attempting to adjust the + 5 volts DC, measure the voltage at the Logic PCB, not at the Power Supply. This measurement should be no less than 4.95 vdc, and no greater than 5.05 vdc. Carefully adjust RV01 on the Regulator PCB until the desired voltage is obtained.
- C. OPERATOR SELECTABLE OPTIONS. The Operator Selectable Options can be altered by changing the settings of the Dip Switches found on the Logic PCB. Table 1 and Table 2 outline the available options.



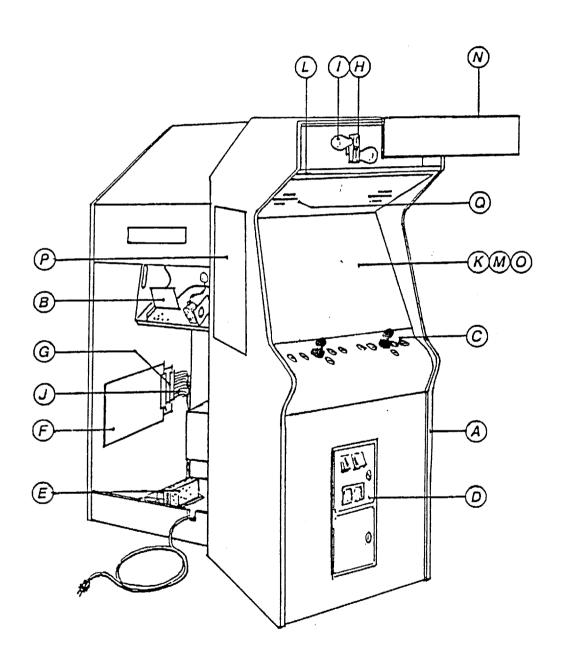
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Dip Switch	1	<u>-</u>	2	3	4	5	5	7	3
REPLAY	NONE 70,000 100,000 150,000							OFF ON OFF ON	OFF
ATTRACT MODE	SOUND NO SOUND				<del></del>		OFF ON		
DIFFICULTY LEVEL 2 PLAYER	EASY NORMAL DIFFICULT VERY HARD				OFF OFF ON ON	OFF ON OFF ON			
CABINET STYLE	TABLE UPRIGHT			OFF ON					
	GAME MODE AGNOSTIC MODE	off ON							
TABLE 2 Dip Switch	2 	1	2	3	4	5	6	7	8
1 COIN 1 COIN 1 COIN 2 COIN	1 CREDIT 2 CREDIT 3 CREDIT 1 CREDIT				-,			OFF OFF ON ON	OFF ON OFF ON
1 COIN 1 COIN 1 COIN 2 COIN	1 CREDIT 2 CREDIT 3 CREDIT 1 CREDIT		- <b></b> -			OFF OFF ON ON	OFF ON OFF ON		
DIFFICULTY LEVEL 1 PLAYER	NORMAL		· <b></b>	OFF ON OFF ON	off on				<b></b>
	2 WIN, END 1 WIN, END		OFF ON					<b></b>	
MODE	GAME MODE FREEZE MODE		· <b>===</b> -				<b></b>		

# 4. PARTS BREAKDOWN

# A. FINAL ASSEMBLY, SHOOTOUT

A	CABINET ASSY, EMPTY365-00	01-00
В	MONITOR ASSY, HORIZONTAL510-00	
C	CONTROL PANEL ASSY, RING KING510-00	43-00
D	COIN DOOR ASSY510-00	04-00
E	POWER SUPPLY ASSY510-00	02-00
F	PCB ASSY, RING KING510-00	59-00
G	PCB ASSY, EMI FILTER DE-0209520-00	16-00
H	DUAL LAMPHOLDER ASSY	02-00
I	LAMP, INCANDESCENT 40W165-00	04-00
J	HARNESS ASSY, MAIN036-00	35-00
K	MONITOR BEZEL380-00	02-00
L	PLEX RETAINER535-00	09-00
M	PLEX, DISPLAY, CLEAR	01-00
N	PLEX, MARQUEE, RING KING830-00	15-00
0	UNDERLAY CARD, DISPLAY, RING KING810-00	09-00
P	SIDE DECAL, RING KING820-00	14-00
Q	SPEAKER, 6 X 9 INCH OVAL	01-00

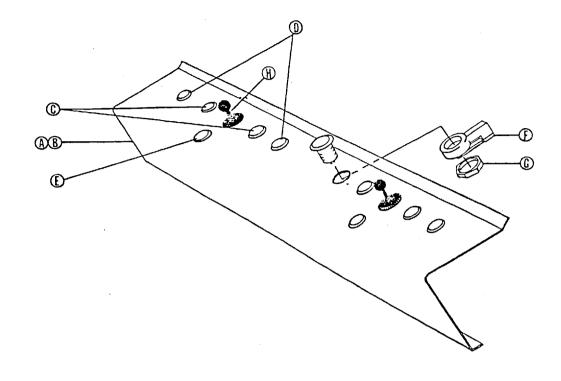


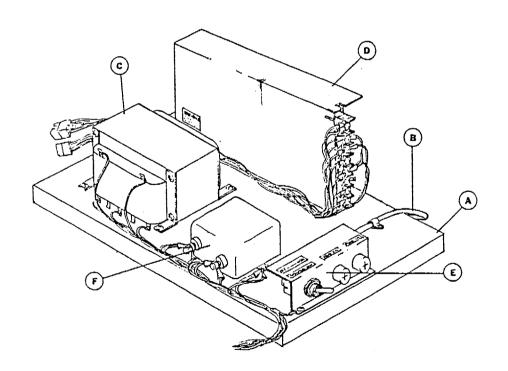
# B. CONTROL PANEL ASSEMBLY

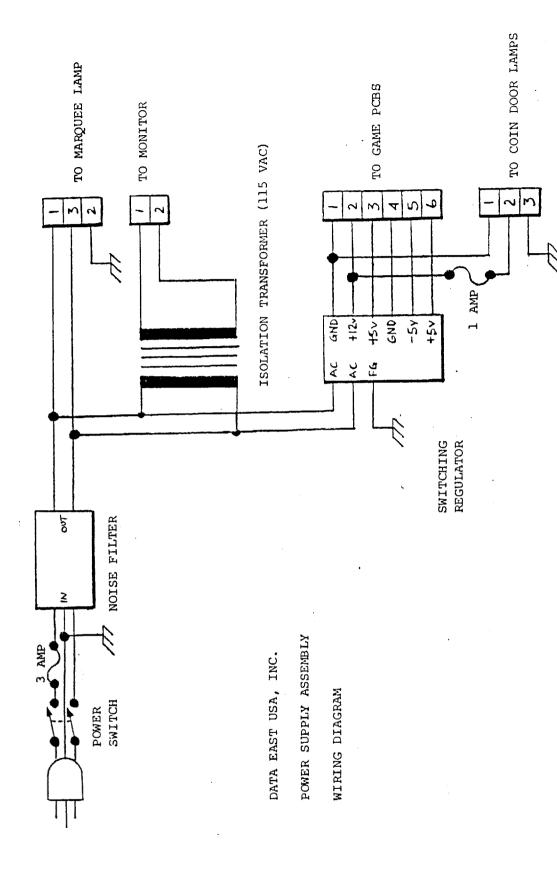
	CONTROL PANEL, BARE	535-0026-00
A	CONTROL PANEL OVERLAY, RING KING	800-0015-00
В	PUSHBUTTON, SHORT, SOLID, RED	350-0001-02
С	PUSHBULION, SHORT, SOULD, RED	350-0001-06
D	PUSHBUTTON, SHORT, SOLID, BLU	350-0001-09
E	PUSHBUTTON, SHORT, SOLID, WHT	195-0001-00
F	PUSHBUTTON HOLDER W/LEAF SWITCH	240-0001-00
G	PAL NUTJOYSTICK ASSY, 4 WAY	450-0002-00
u	JOYSTICK ASSI, 4 MAI	

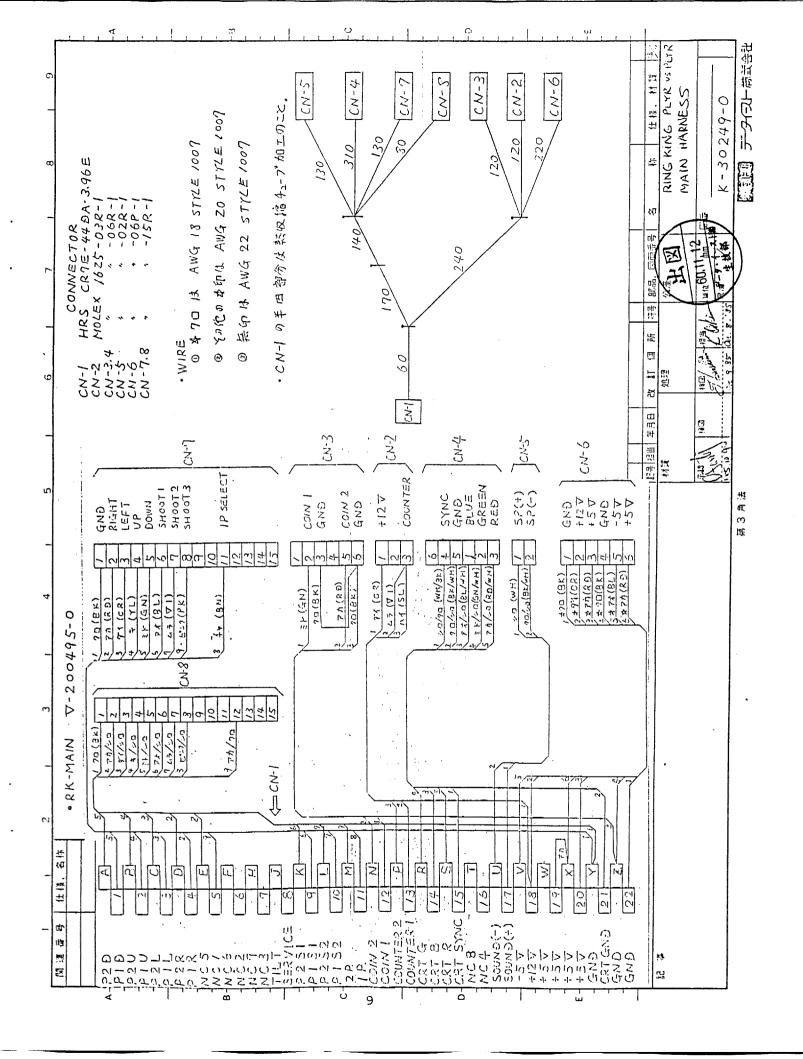
# C. POWER SUPPLY ASSEMBLY

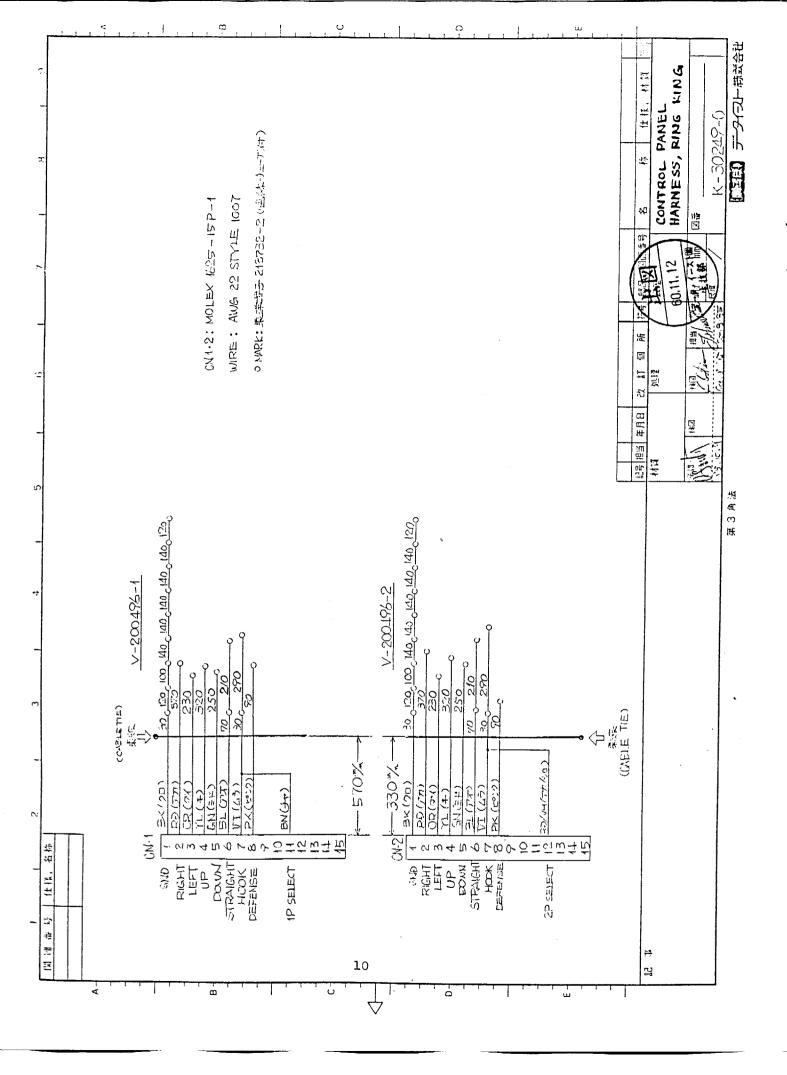
A	POWER SUPPLY CHASSIS, WOOD	515-0003-00
В	POWER CORD ASSY	515-0002-00
c	TRANSFORMER, ISOLATION	010-0001-00
ם	SWITCHING REGULATOR, KAGA	510-0007-00
E	SWITCH BRACKET ASSY	
F	NOISE FILTER	

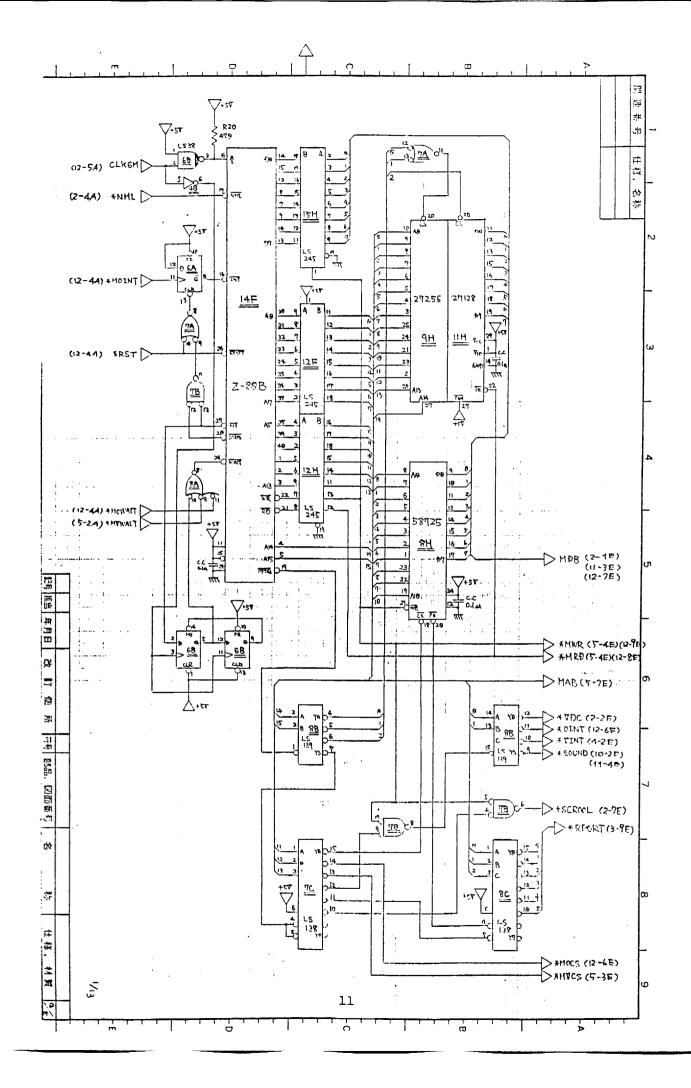


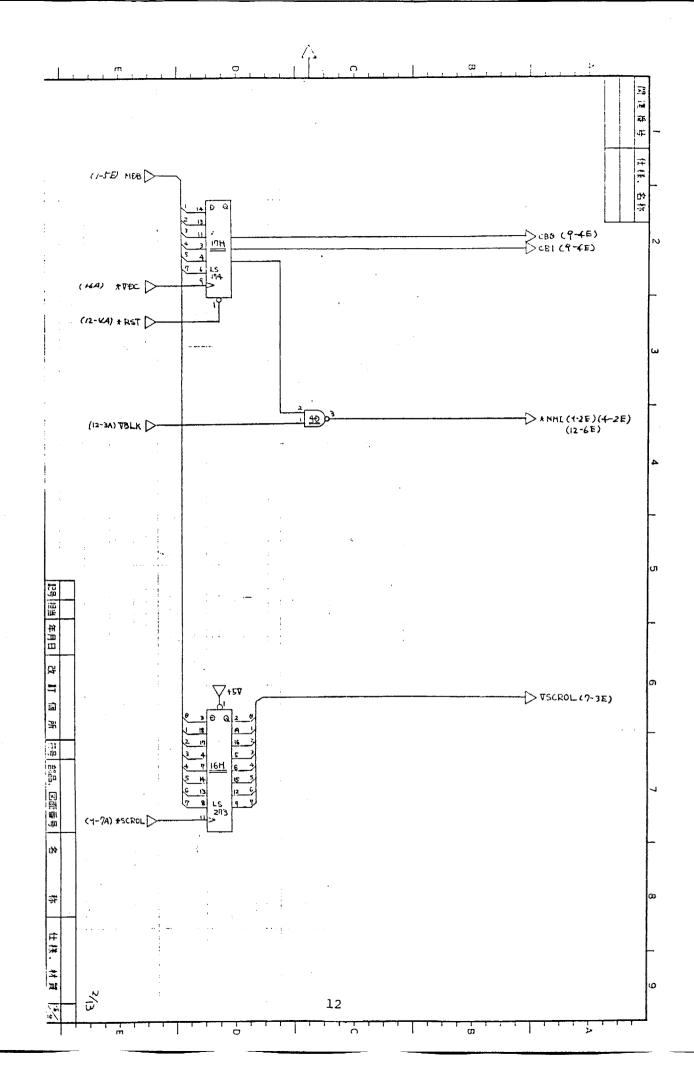


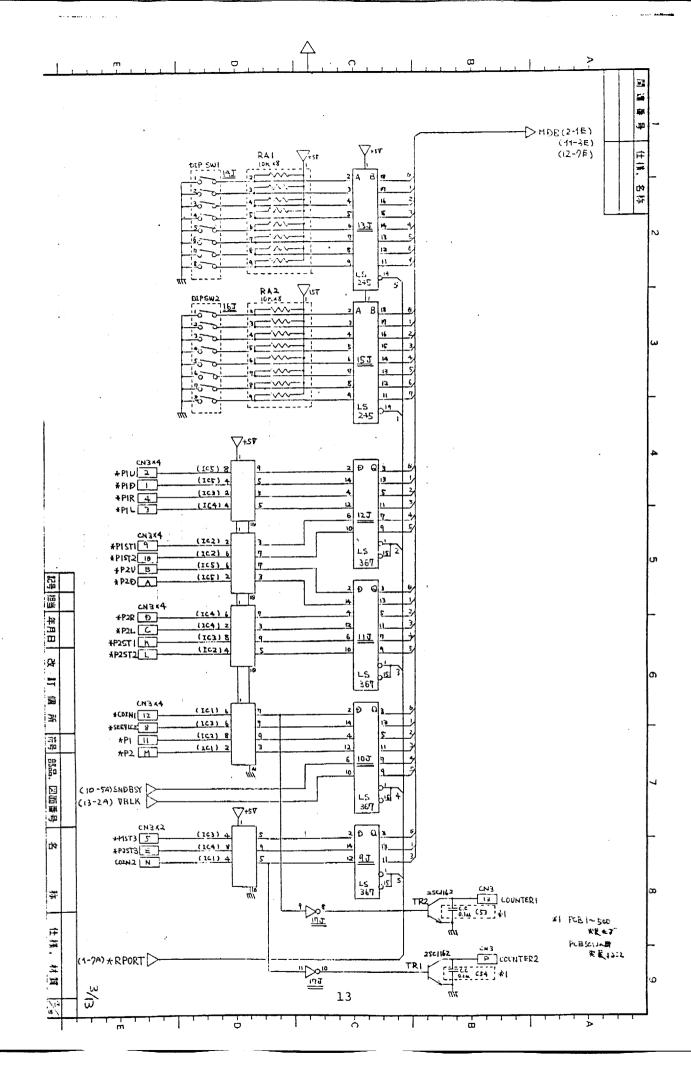


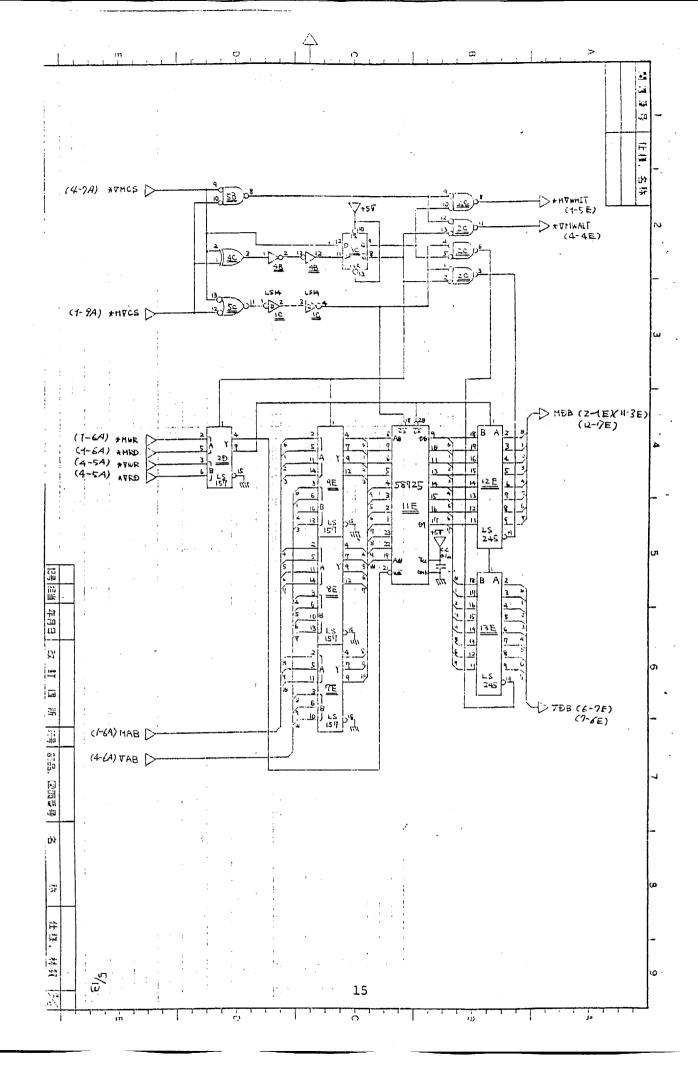


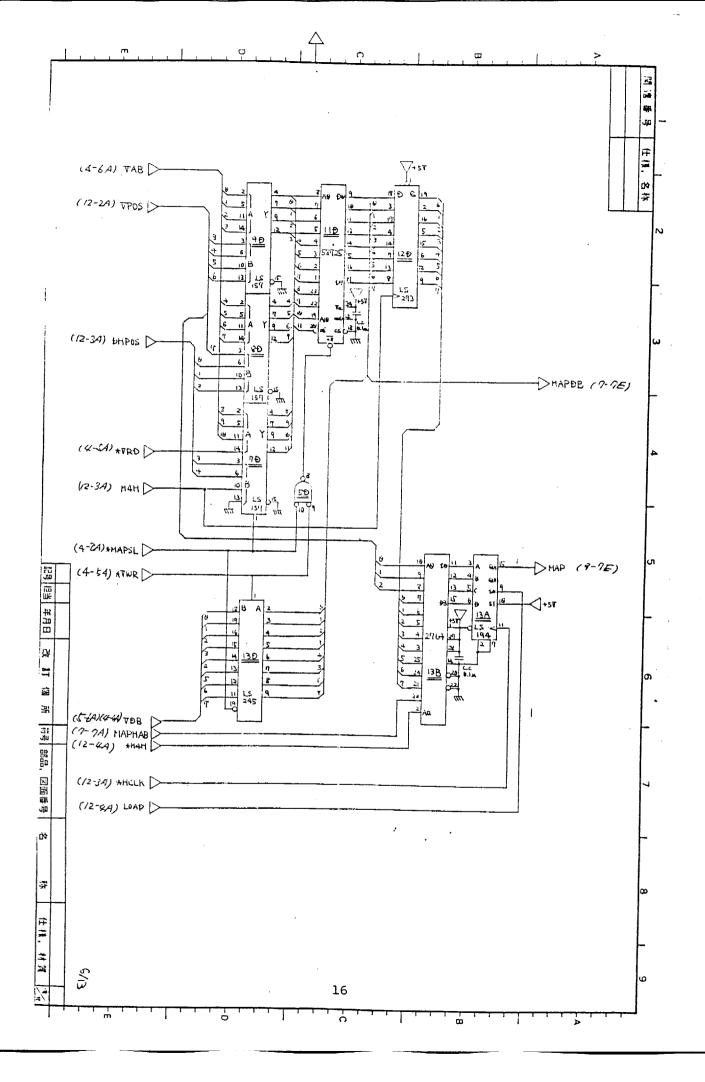


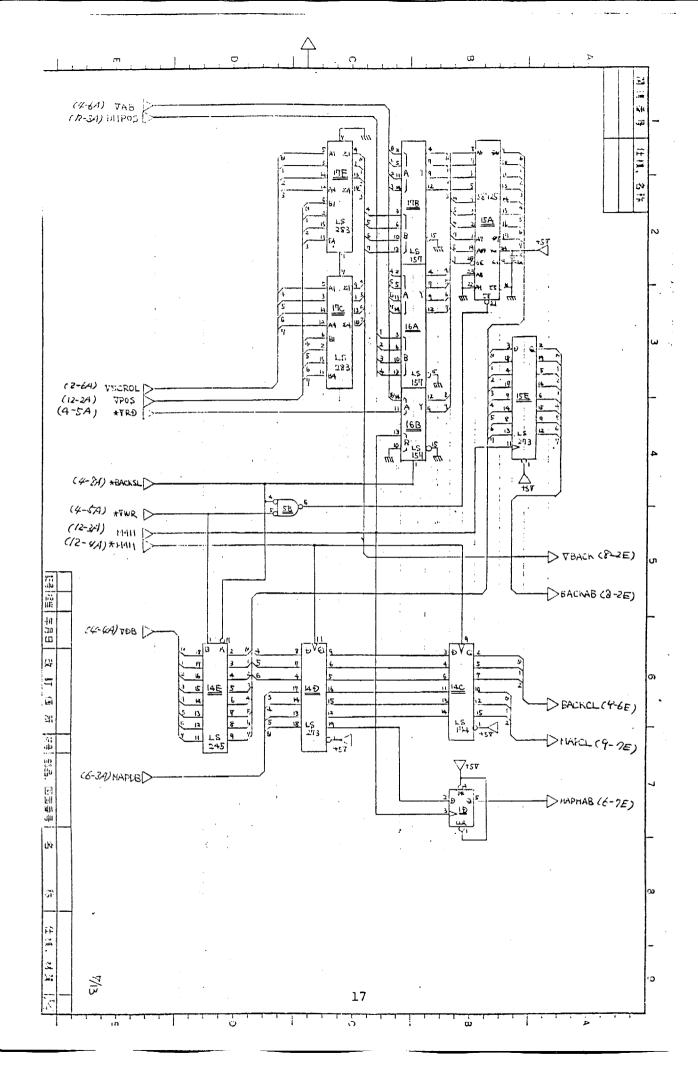


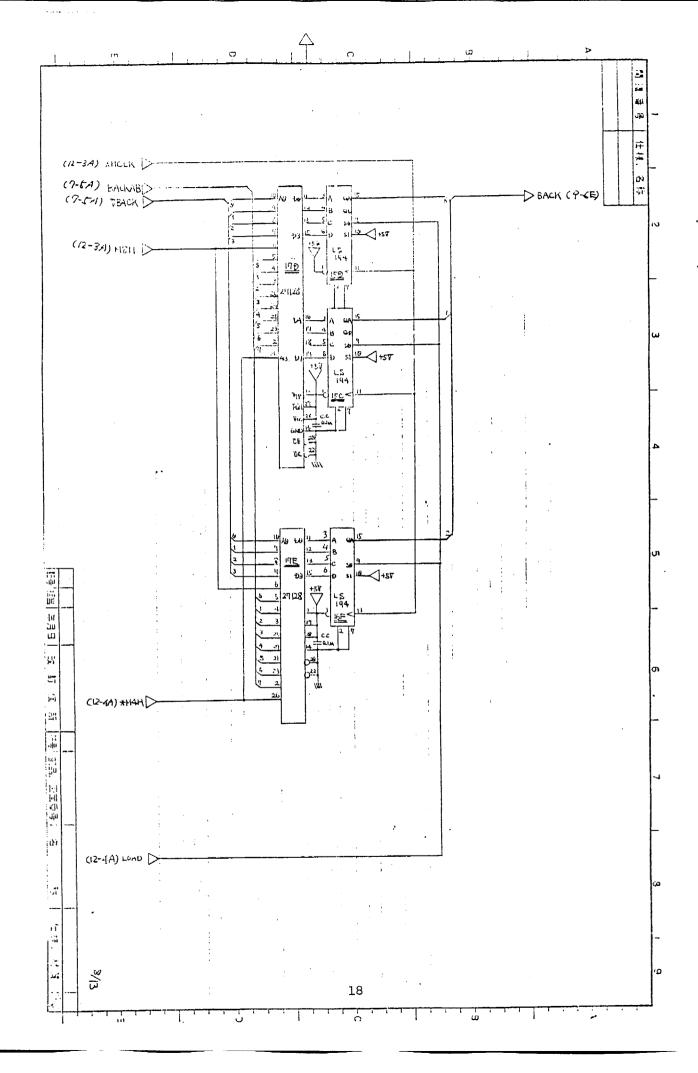


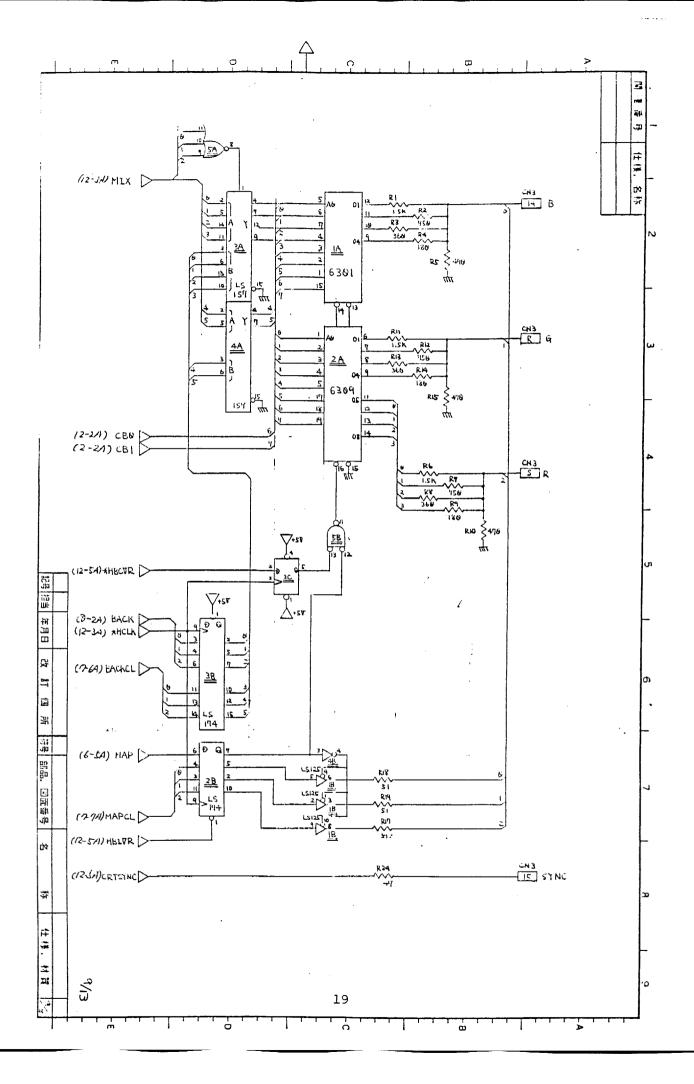


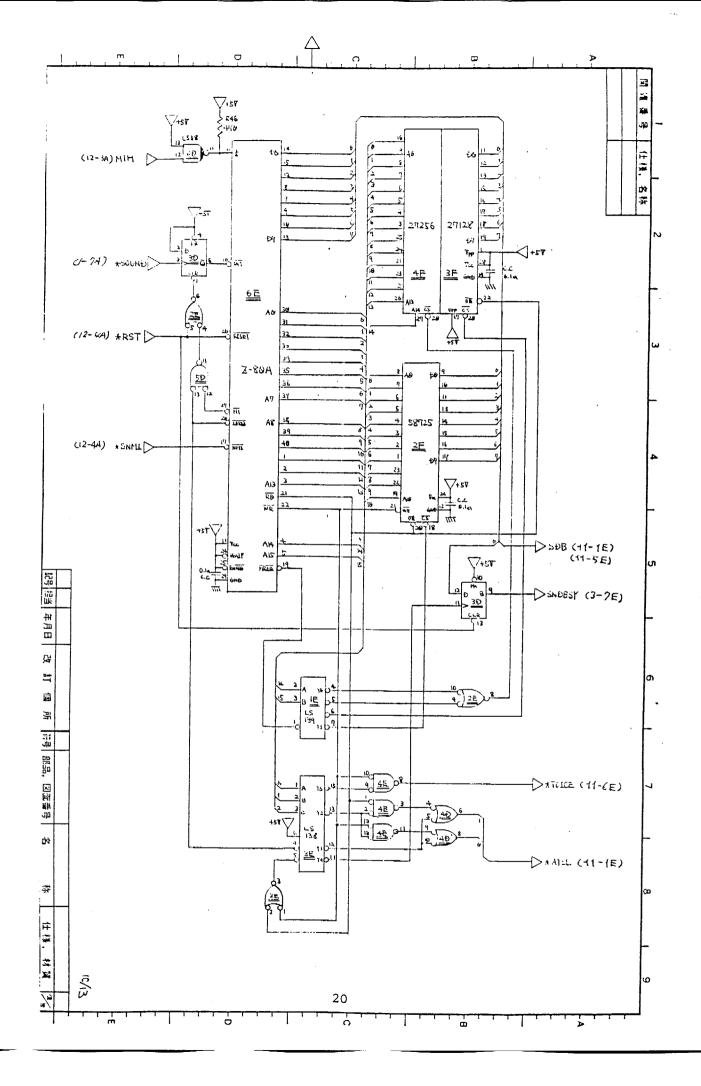


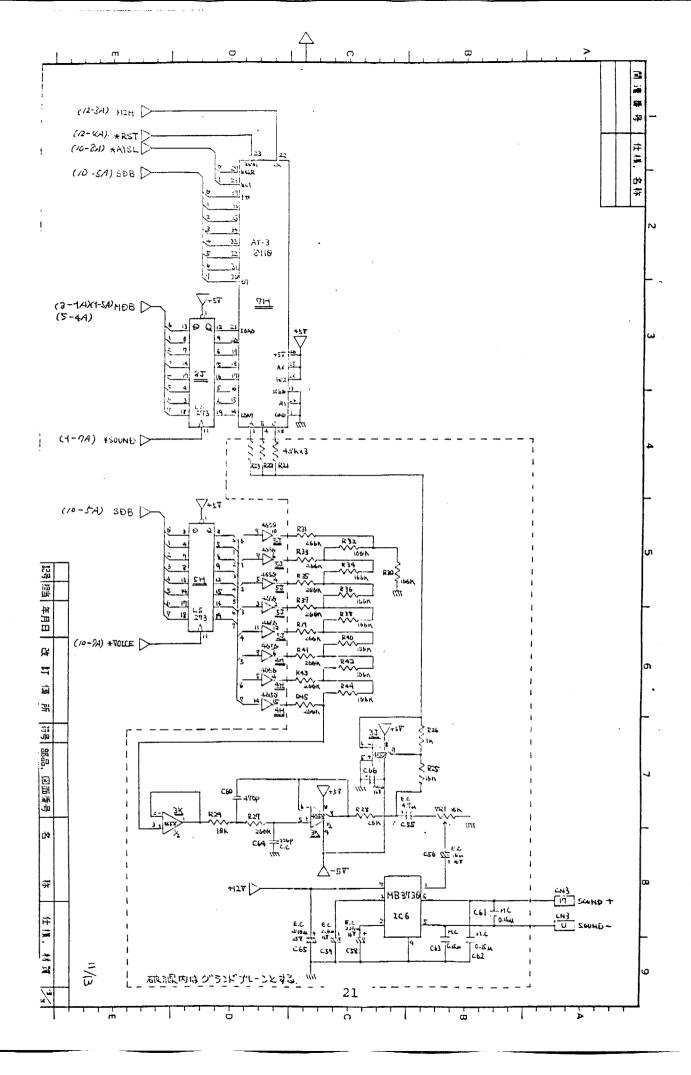


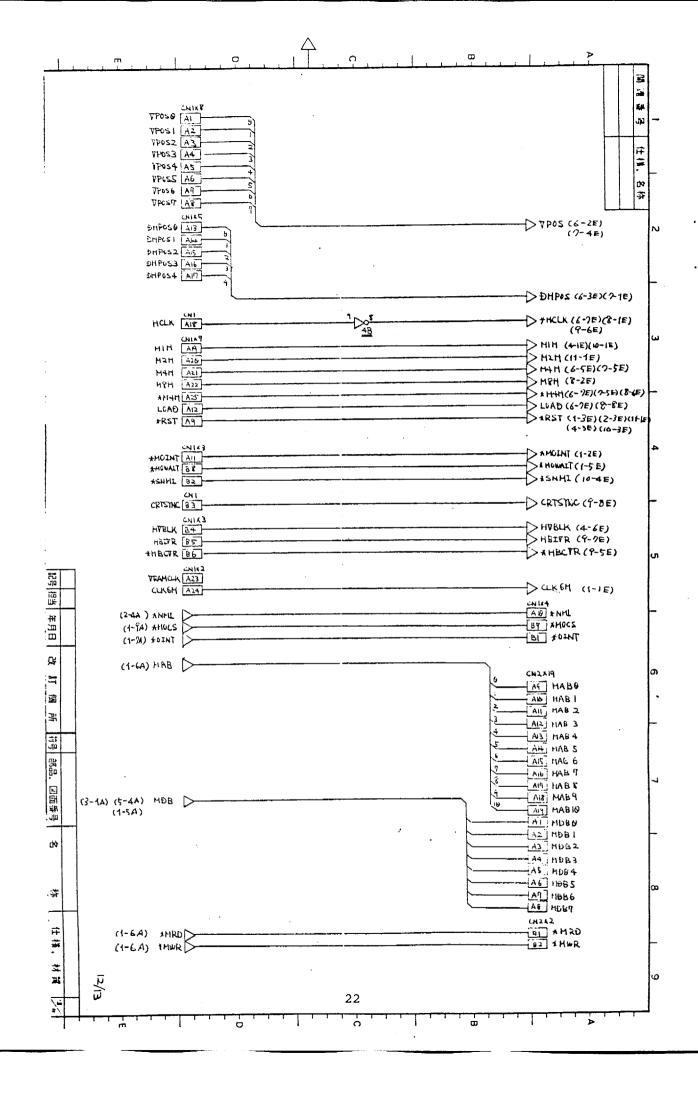


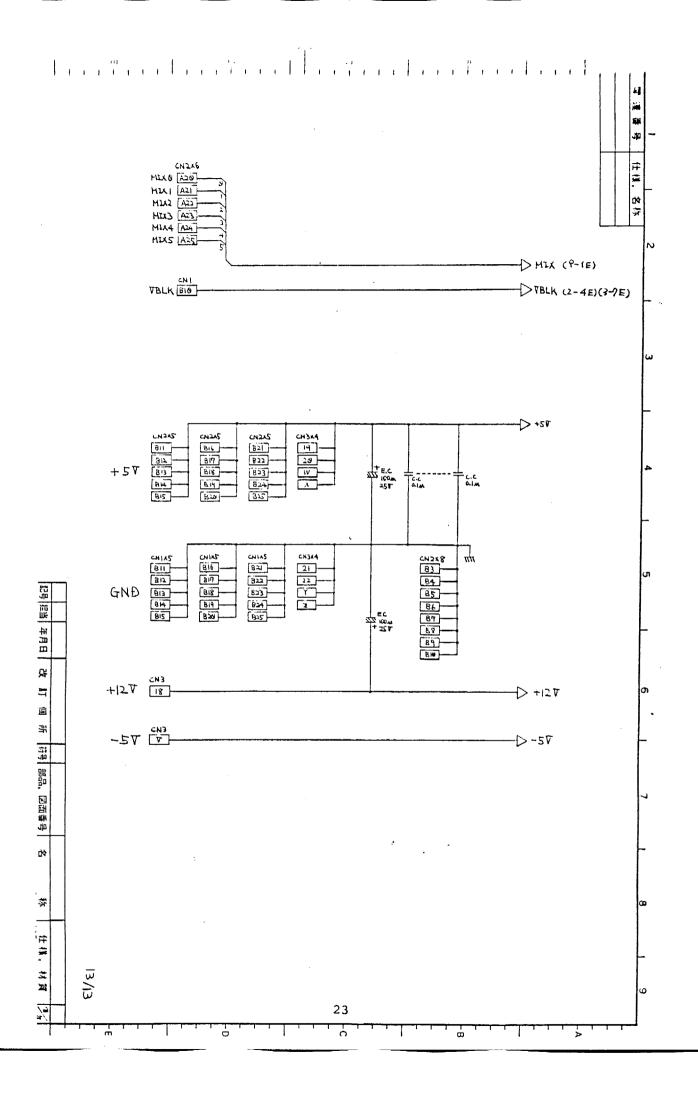


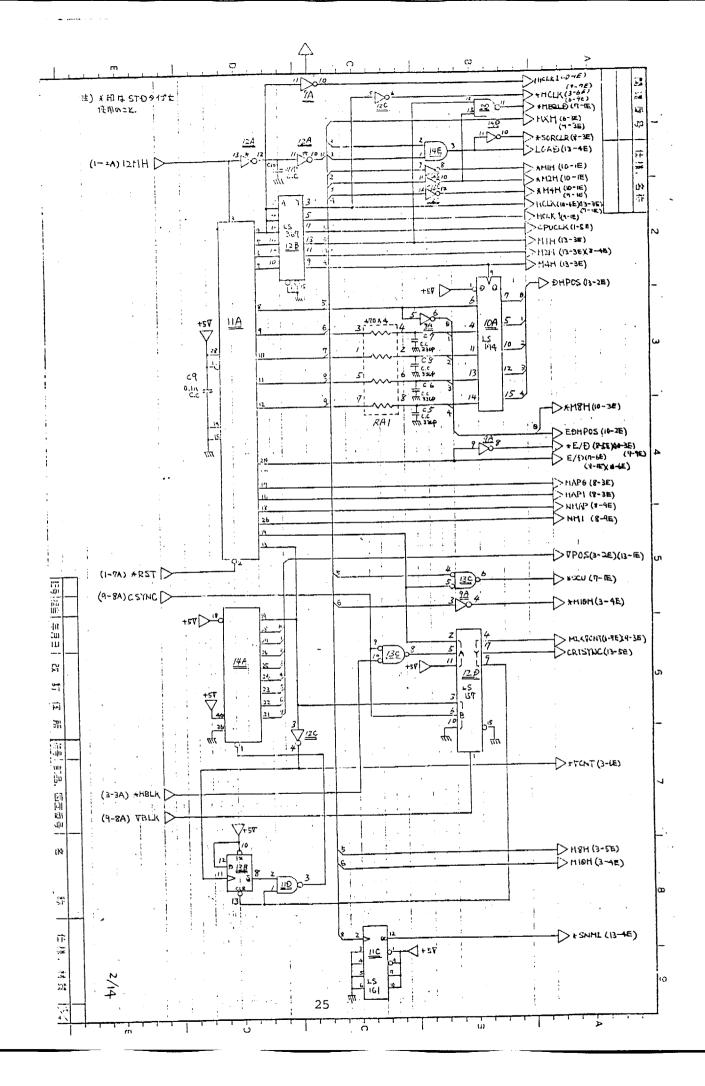


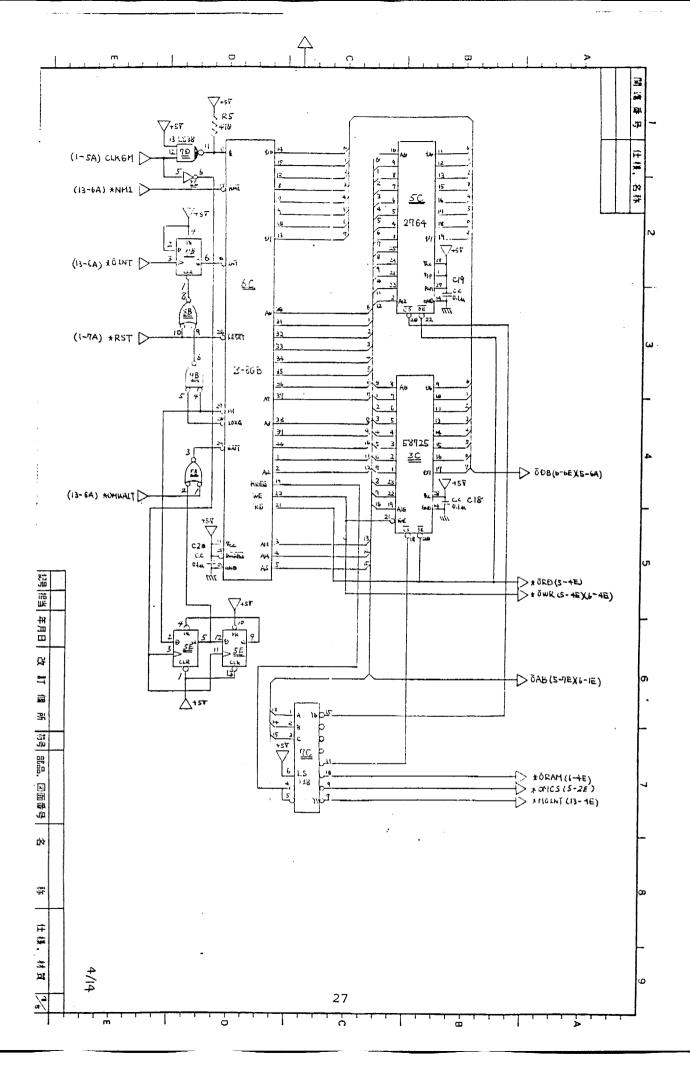


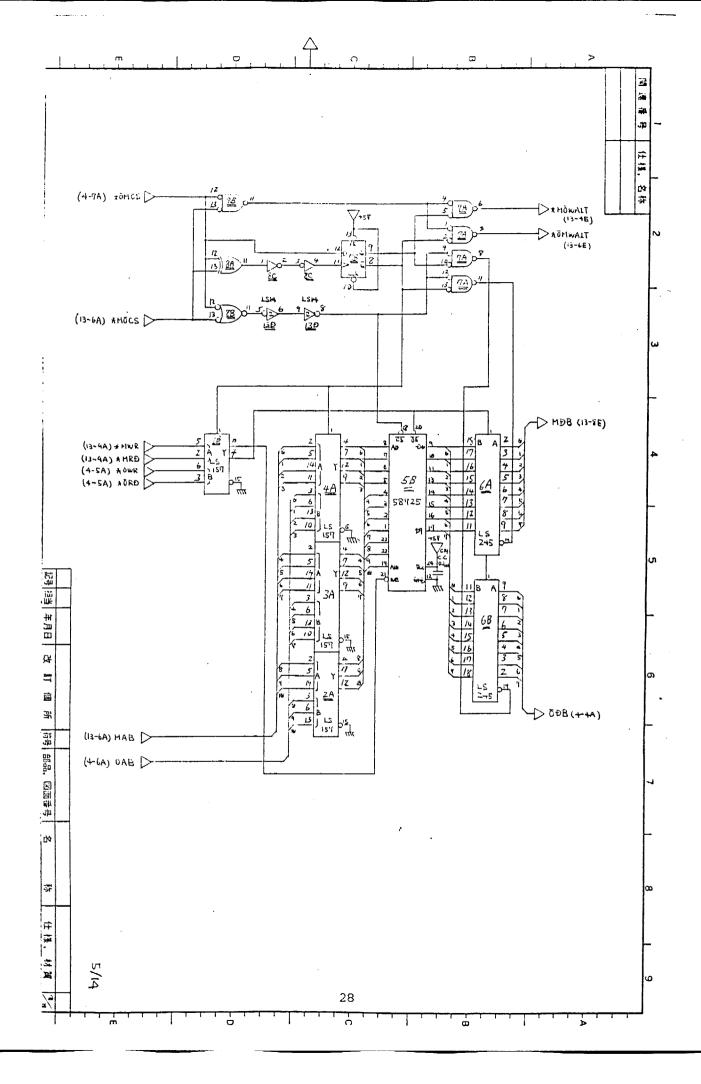


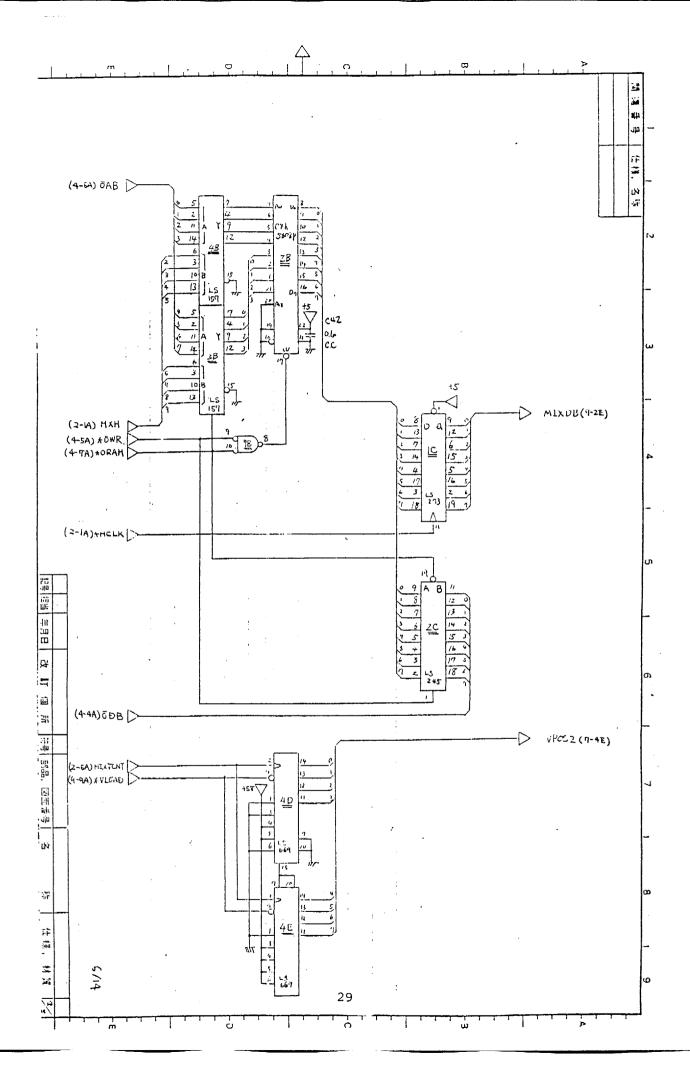


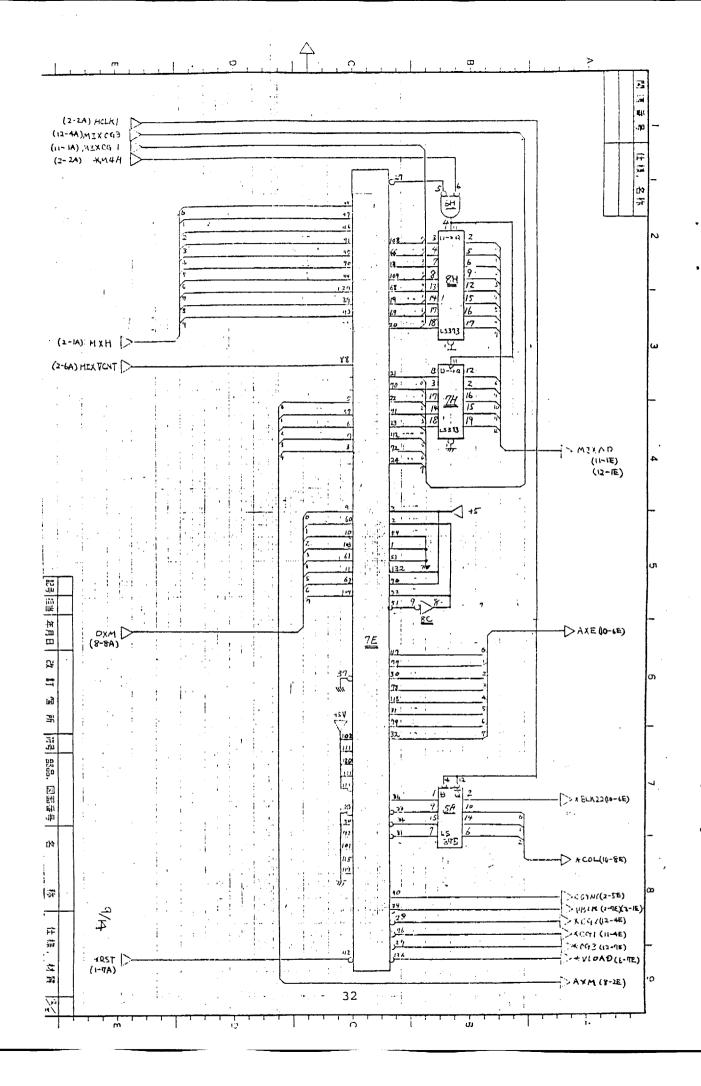


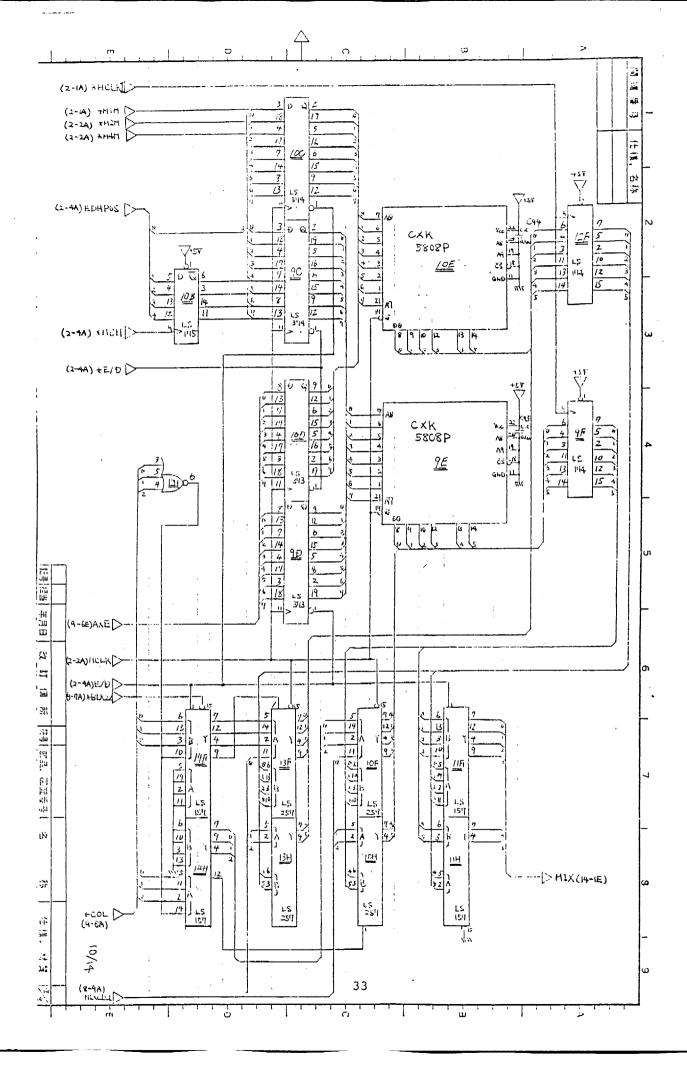


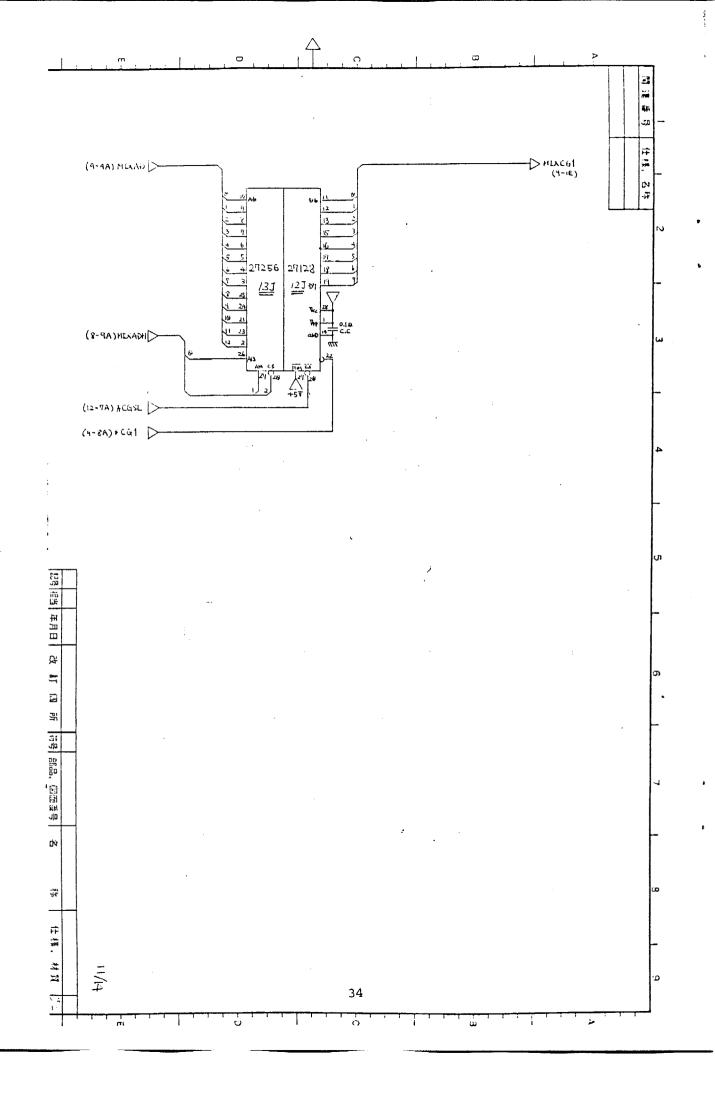


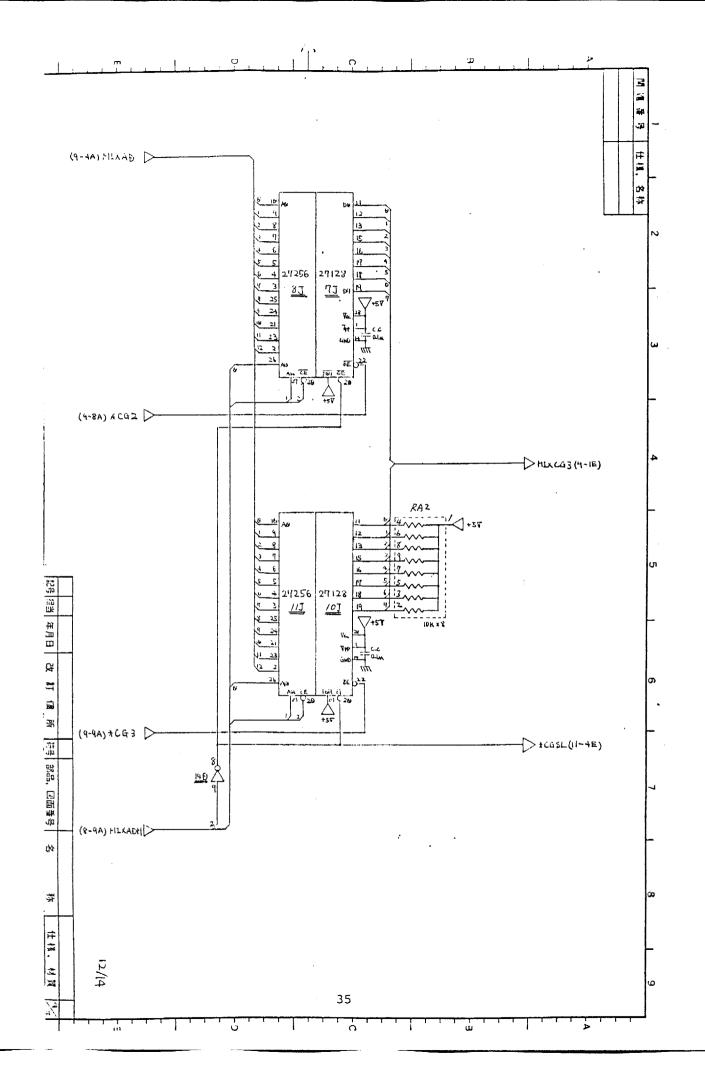












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