KONAMI®

TEENAGE MUTANT NINJA TURTLES®

4 PLAYER UPRIGHT INSTRUCTION MANUAL

TEENAGE MUTANT NINJA TURTLES
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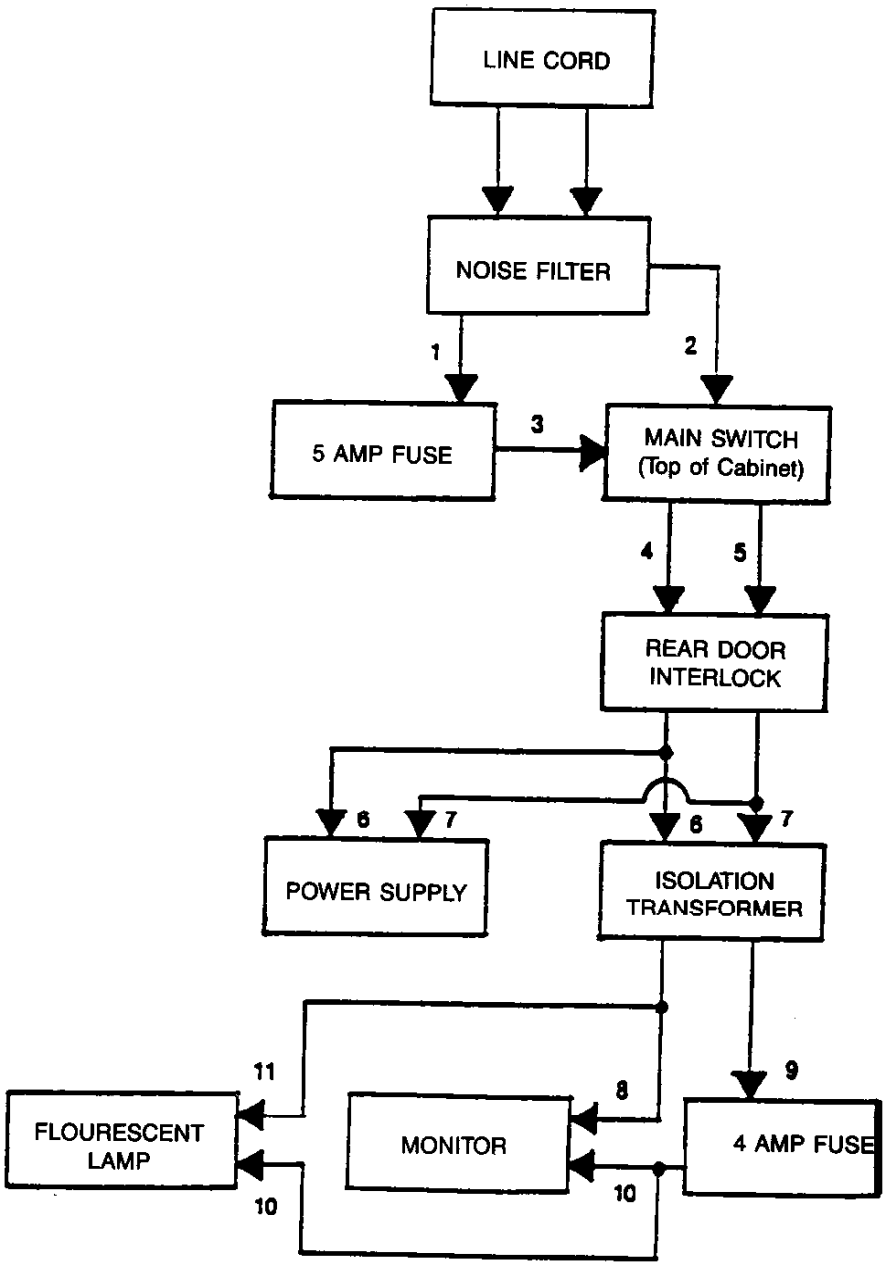
Part Number 963400

T.M.N.T.: PARTS LIST

Part #	Description
30110	Red Button
30112	Blue Button
30118	Yellow Button
30260	Violet Button
30202	Switch Holders
30250	Palnuts
30304	Red Joy Stick
30305	Blue Joy Stick
30307	Yellow Joy Stick
30321	Violet Joy Stick
30502	Control Panel Hinge
35101	Fuse 1 AMP
35104	Fuse 4 AMP
35105	Fuse 5 AMP
35201	ISO Transformer
35300	Line Filter
35403	Power Supply
40101	Coin Door W/Meter
40106	Coin Door No/Meter
40208	Marquee Bracket (Acute)
40209	Marquee Bracket (Obtuse)
40355	Marquee Plexi
40356	Tempered Glass
40505	25 Inch Monitor
40611	Bezel 25"
40700	Light Fixture
40702	Light Bulb
40946	A.C. Harness
963003	T.M.N.T. P.C.B.
963011	T.M.N.T. DC Harness
963100	T.M.N.T. CPO
963101	T.M.N.T. Instruction Decal
963200	T.M.N.T. Marquee
963304	T.M.N.T. Right Logo Side Decal
963305	T.M.N.T. Left Logo Side Decal
963306	T.M.N.T. Middle Right Side Decal
963307	T.M.N.T. Middle Left Side Decal
963308	T.M.N.T. Lower Right Side Decal
963309	T.M.N.T. Lower Left Side Decal
963400	T.M.N.T. Manual (4P)

T.M.N.T.: AC FLOW CHART

1. GREEN/YELLOW
2. BLACK
3. RED
4. BLUE
5. BROWN
6. RED/BLACK
7. BLACK/WHITE
8. WHITE
9. GREEN
10. VIOLET
11. ORANGE



T.M.N.T.: WIRING HARNESS

WIRE COLOR KEY:	Solder Side ←			→ Parts Side	
BLACK	GND	A	1	GND	BLACK
BLACK	GND	B	2	GND	BLACK
RED	+5V DC	C	3	+5V DC	RED
RED	+5V DC	D	4	+5V DC	RED
	NOT USED	E	5	NOT USED	
ORANGE	+12V DC	F	6	+12V DC	ORANGE
	*KEY	H	7	*KEY	
	(EMPTY)	J	8	COIN COUNTER	GREEN/GRAY
	(EMPTY)	K	9	(EMPTY)	
YELLOW	SPEAKER (–)	L	10	SPEAKER (+)	BLUE
	(EMPTY)	M	11	(EMPTY)	
WHITE/GREEN	VIDEO GREEN	N	12	VIDEO RED	RED/WHITE
WHITE	VIDEO SYNC	P	13	VIDEO BLUE	BLUE/WHITE
	(EMPTY)	R	14	VIDEO GROUND	BLACK
	(EMPTY)	S	15	(EMPTY)	
VIOLET/WHITE	COIN 2	T	16	COIN 1	BLUE/BROWN
	NOT USED	U	17	NOT USED	
BLUE/YELLOW	2P UP	V	18	1P UP	ORANGE/WHITE
VIOLET/YELLOW	2P DOWN	W	19	1P DOWN	BLACK/WHITE
ORANGE/GREEN	2P LEFT	X	20	1P LEFT	RED/GRAY
ORANGE/YELLOW	2P RIGHT	Y	21	1P RIGHT	GRAY/WHITE
BLACK/YELLOW	A 2P JUMP	Z	22	1P JUMP A	RED/WHITE
ORANGE/GRAY	B 2P ATTACK	a	23	1P ATTACK B	GREEN/BROWN
	NOT USED	b	24	NOT USED	
	NOT USED	c	25	NOT USED	
	NOT USED	d	26	NOT USED	
BLACK	GND	e	27	GND	BLACK
BLACK	GND	f	28	GND	BLACK

(BASE COLOR/LINE COLOR)

T.M.N.T.: SUB HARNESS FOR 3 PLAYERS & 4 PLAYERS

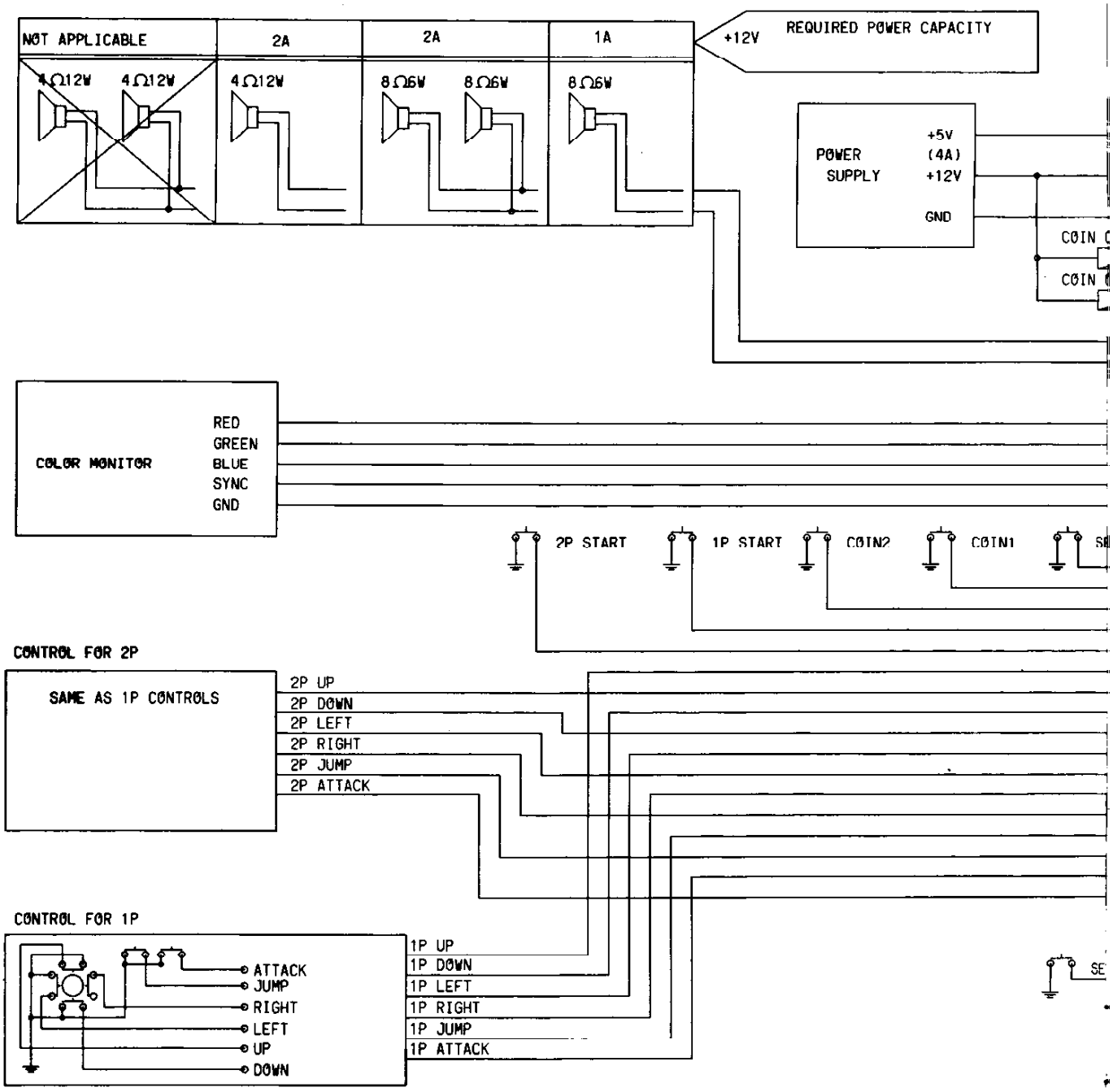
CN3
3P
CONTROLS

1	Coin 3	White/Violet
2	Empty	
3	3P Left	White/Red
4	3P Right	White/Yellow
5	3P Up	White/Black
6	3P Down	White/Blue
7	3P Jump	White/Brown
8	3P Attack	White/Orange
9	Empty	
10	Empty	
11	Empty	
12	Empty	
13	Empty	
14	Empty	
15	Ground	Black

CN4
4P
CONTROLS

1	Coin 4	Blue
2	Empty	
3	4P Left	Yellow/Black
4	4P Right	Brown/Black
5	4P Up	Green/Yellow
6	4P Down	Yellow/Red
7	4P Jump	Yellow/White
8	4P Attack	Yellow/Blue
9	Empty	
10	Empty	
11	Empty	
12	Empty	
13	Empty	
14	Empty	
15	Ground	Black

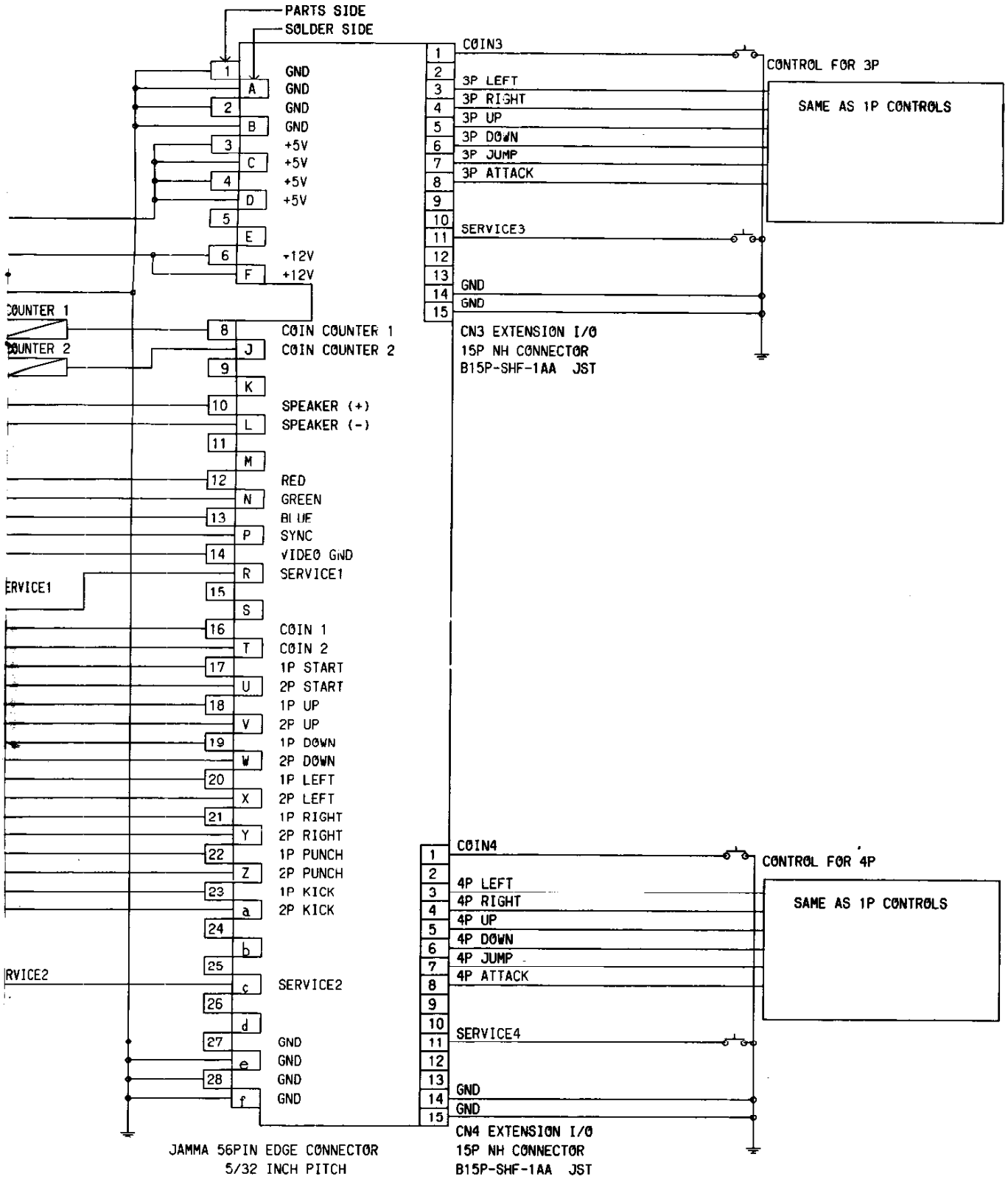
4P VERSION WIRING DIAGRAM



- NOTES -

1 1P:NO.1 PLAYER 2P:NO.2 PLAYER
3P:NO.3 PLAYER 4P:NO.4 PLAYER

2 SURGE KILLER DIODES FOR COIN COUNTER INSTALLED ON THE P.C.B.


PARTS SIDE
SOLDER SIDE
GND
GND
GND
GND
+5V
+5V
+5V
+5V
+12V
+12V
COUNTER 1
COUNTER 2
COIN COUNTER 1
COIN COUNTER 2
SPEAKER (+)
SPEAKER (-)
RED
GREEN
BLUE
SYNC
VIDEO GND
ERVICE1
SERVICE1
COIN 1
COIN 2
1P START
2P START
1P UP
2P UP
1P DOWN
2P DOWN
1P LEFT
2P LEFT
1P RIGHT
2P RIGHT
1P PUNCH
2P PUNCH
1P KICK
2P KICK
RVICE2
SERVICE2
GND
GND
GND
GND
JAMMA 56PIN EDGE CONNECTOR
5/32 INCH PITCH
COIN3
3P LEFT
3P RIGHT
3P UP
3P DOWN
3P JUMP
3P ATTACK
SERVICE3
GND
GND
CN3 EXTENSION I/O
15P NH CONNECTOR
B15P-SHF-1AA JST
CONTROL FOR 3P
SAME AS 1P CONTROLS
COIN4
4P LEFT
4P RIGHT
4P UP
4P DOWN
4P JUMP
4P ATTACK
SERVICE4
GND
GND
CN4 EXTENSION I/O
15P NH CONNECTOR
B15P-SHF-1AA JST
CONTROL FOR 4P
SAME AS 1P CONTROLS

T.M.N.T. DIP SWITCH SETTINGS

DIP SWITCH NO. 1 SETTINGS

1. COIN SWITCH NO. 1 SETTINGS

SW	1	2	3	4	COIN	PLAY
O	OFF	OFF	OFF	OFF	1	1
	ON				1	2
	OFF	ON			1	3
	ON				1	4
	OFF	OFF	ON	OFF	1	5
	ON				1	6
	OFF	ON			1	7
	ON				2	1
	OFF	OFF	OFF	ON	2	3
	ON				2	5
	OFF	ON			3	1
	ON				3	2
	OFF	OFF	ON	ON	3	4
	ON				4	1
	OFF	ON			4	3
	ON				5	1

SW5 thru SW8 are not used.

DIP SWITCH NO. 2 SETTINGS

1. THE NUMBER OF PLAYER'S LIFE

SW	1	2	NUMBER
O	OFF	OFF	1
	ON		2
	OFF	ON	3
	ON		5

2. DIFFICULTY OF THE GAME

SW	6	7	DIFFICULTY
O	OFF	OFF	EASY
	ON		NORMAL
	OFF	ON	DIFFICULT
	ON		VERY DIFFICULT

3. SOUND IN ATTRACTIVE MODE

SW	8	SOUND
O	OFF	OFF
	ON	ON

SW3 thru SW5 are not used.

DIP SWITCH NO. 3 SETTINGS

1. VIDEO SCREEN FLIP

SW	1	
O	OFF	NORMAL
	ON	UPSIDE DOWN

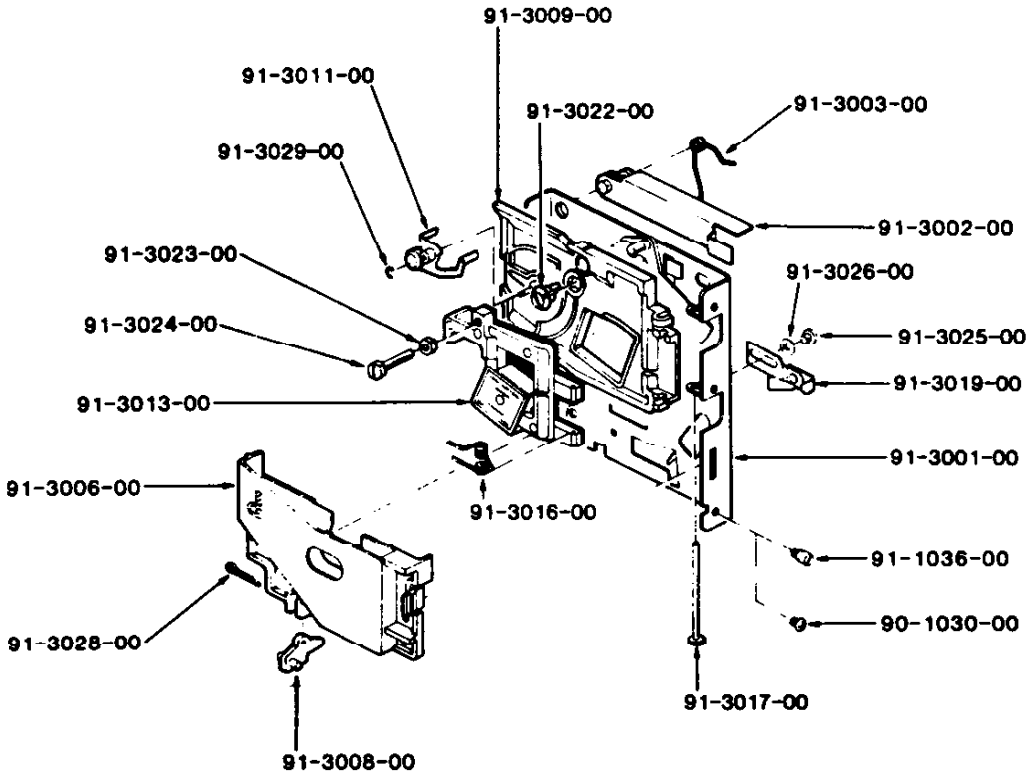
2. CHANGE OF MODE

SW	3	MODE
O	OFF	GAME MODE
	ON	TEST MODE

SW2 and SW4 are not used and should be kept OFF.

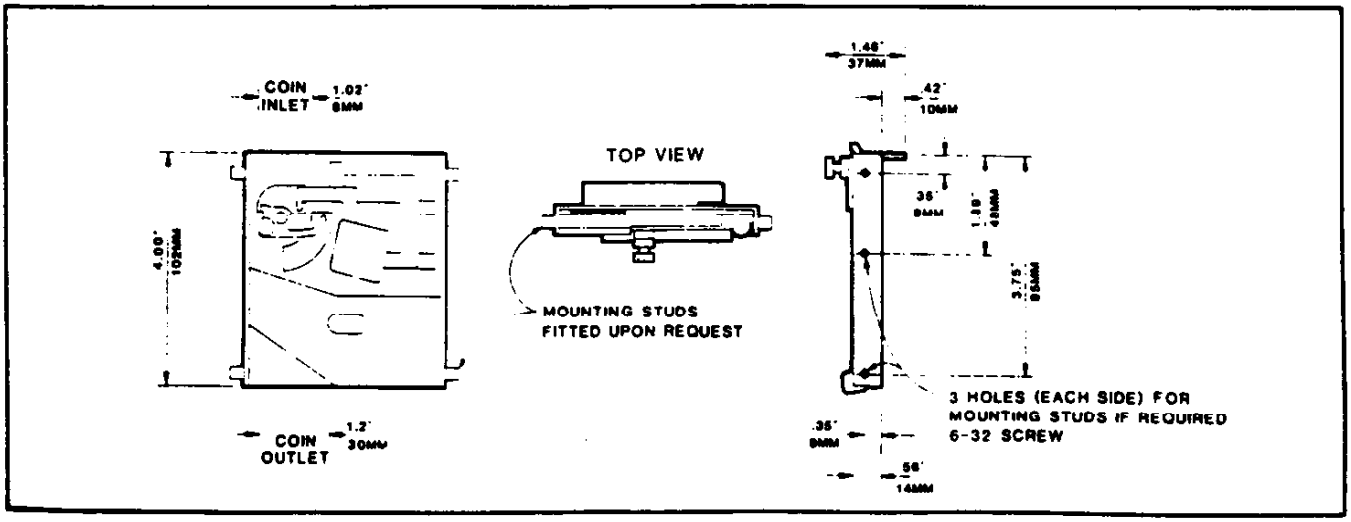
O shows recommended settings.

Gold Mech
Engineering Data and Parts List

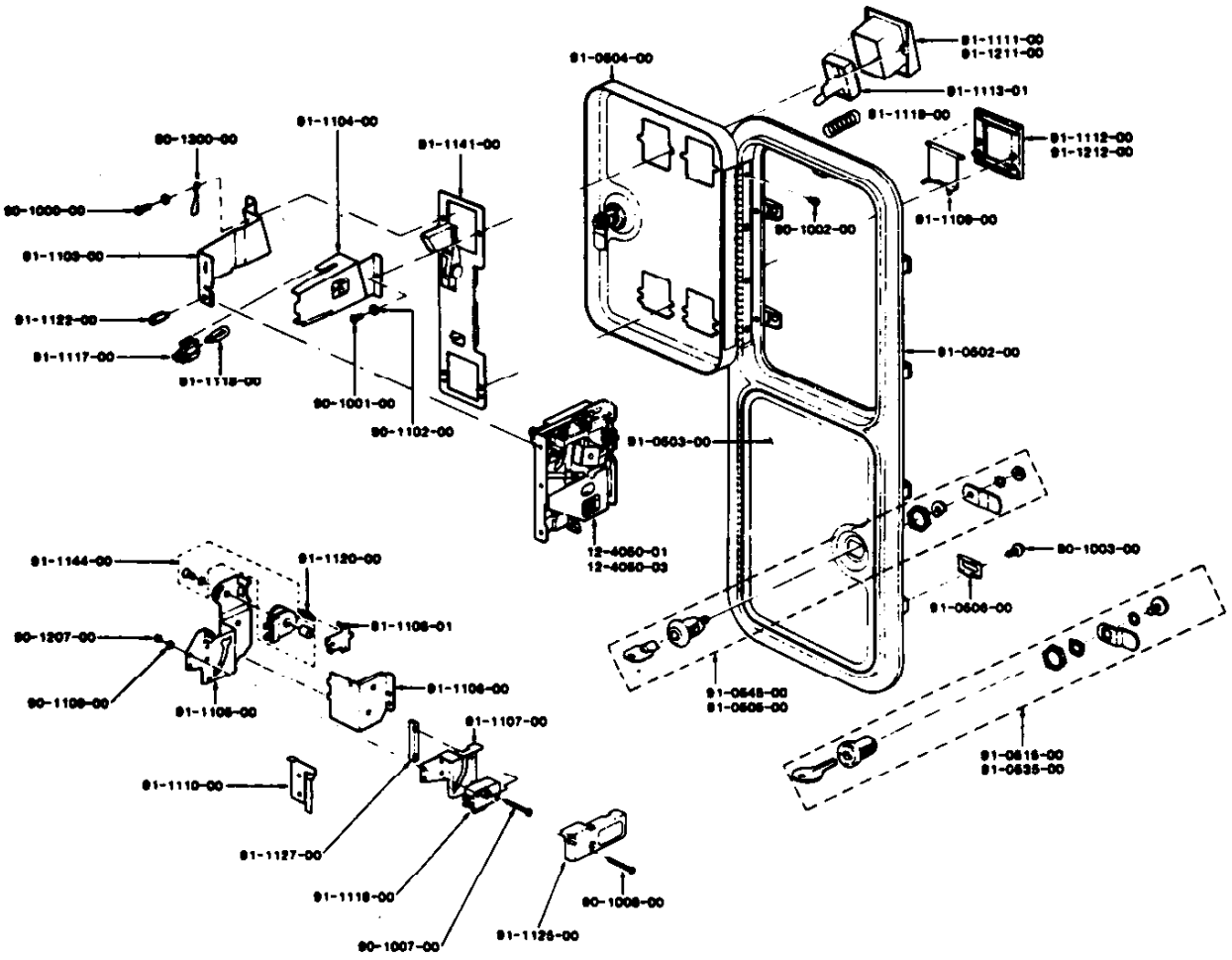


PARTS LIST

90-1030-00 Retaining Screw (#6-32"x.250")	91-3009-00 Gate	91-3023-00 Locknut-Magnet Holder
91-1036-00 Mounting Stud	91-3011-00 Cradle	91-3024-00 Screw-Magnet Holder
91-3001-00 Back Plate	91-3013-00 Magnet Holder with Magnet	91-3025-00 Screw Separator
91-3002-00 Reject Lever	91-3016-00 Gate Spring	91-3026-00 Washer
91-3003-00 Reject Lever Spring	91-3017-00 Gate Pin	91-3028-00 Cotter Pin for Anti-stringing Device
91-3006-00 Cover Plate	91-3019-00 Separator	91-3029-00 E-Clip for Cradle
91-3008-00 Anti-Stringing Device	91-3022-00 Diameter Adjustment	

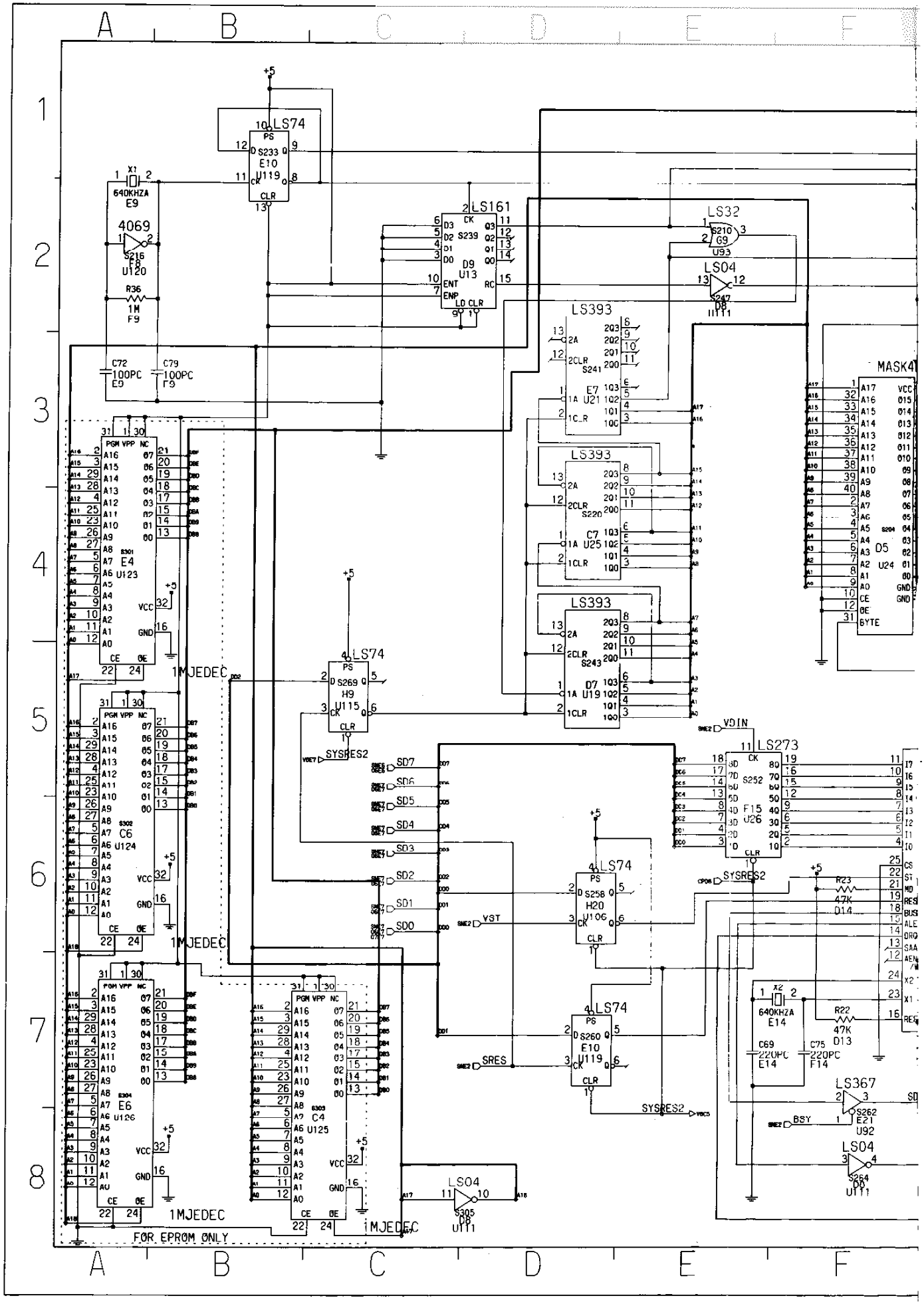


COMPLETE COIN DOOR ASSEMBLY
EXPLODED VIEW



PARTS LIST

12-4050-01	S-10 Acceptor Body U.S. 25¢	90-1102-00	Washer for Bezel Screw	91-1103-00	Coin Inlet Lamp Side	91-1119-00	Buttton Spring
12-4050-03	S-10 Acceptor Body Canadian 25¢	90-1207-00	Nut for Microswitch Mounting Screw	91-1104-00	Coin Inlet Cover Side	91-1120-00	Lockout Spring
20-4177-00	Plastic Cash Box	90-1300-00	Keyhook	91-1105-00	Reject Cup Side Plate	91-1122-00	Retaining Screw for Acceptor Body
20-4179-00	Steel Enclosure	91-0502-00	Zinc Die Cast Frame	91-1106-00	Reject Cup Base Plate	91-1125-00	Clear Plastic Cover for Microswitch
22-1400-00	Locking Bar	91-0503-00	Lower Door	91-1107-00	Microswitch Bracket	91-1127-00	Plastic Switch Adjuster
24-1150-00	Wire Harness	91-0504-00	Upper Door	91-1108-01	Lockout Flap U.S. 25¢	91-1141-00	Base Plate With Pivot and Stud
90-1000-00	Keyhook Bezel Screw	91-0505-00	Round Lock and Cam Assembly	91-1109-00	Reject Flap	91-1144-00	6 Volt DC Lockout Coil Assembly
90-1001-00	Bezel Screw	91-0506-00	Clamp	91-1110-00	Metal Switch Adjuster	91-1211-00	Zinc Plated Button Bezel
90-1002-00	Hinge Screw	91-0515-00	Flat Lock and Cam Assembly	91-1111-00	Black Button Bezel	91-1212-00	Zinc Plated Reject Bezel
90-1003-00	Clamp Screw	91-0535-00	Flat Lock and Cam Assembly	91-1112-00	Black Reject Bezel		
90-1007-00	Flat Head Microswitch Mounting Screw	91-0545-00	Round Lock and Cam Assembly	91-1113-01	Entry/Reject Button U.S. 25¢		
90-1008-00	Panhead Microswitch Mounting Screw			91-1116-00	Microswitch (Black End Arm)		
				91-1117-00	Lampholder		
				91-1118-00	6 V Wedge Base Lamp		


A
B
C
D
E
F
1
2
3
4
5
6
7
8
+5
10 LS74
PS
12 D S233 Q 9
E10
11 CK U119 Q 8
CLR
13
X1
640KHZA
E9
4069
S216
F8
U120
R36
1M
F9
C72
100PC
E9
C79
100PC
F9
2 LS161
CK
D3 Q3 11
D2 S239 Q2 12
D1 Q1 13
D0 Q0 14
D9
U13
ENT RC 15
ENP
LD CLR
9 1
LS32
1
S210 3
2 G9
U93
LS04
13 12
S247
D8
U111
LS393
13 2A 2Q3 6
12 2CLR 2Q2 9
S241 2Q1 10
E7 2Q0 11
1 1A U21 1Q3 6
2 1CLR 1Q2 5
1Q1 4
1Q0 3
LS393
13 2A 2Q3 8
12 2CLR 2Q2 9
S220 2Q1 10
C7 2Q0 11
1 1A U25 1Q3 6
2 1CLR 1Q2 5
1Q1 4
1Q0 3
LS393
13 2A 2Q3 8
12 2CLR 2Q2 9
S243 2Q1 10
D7 2Q0 11
1 1A U19 1Q3 6
2 1CLR 1Q2 5
1Q1 4
1Q0 3
MASK4
D5
U24
A17 1
A16 32
A15 33
A14 34
A13 35
A12 36
A11 37
A10 38
A9 39
A8 40
A7 2
A6 3
A5 4
A4 5
A3 6
A2 7
A1 8
A0 9
CE 10
OE 12
BYTE 31
VCC 15
GND 1
GND
S204
PGM VPP NC
A16 A17 A15 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1 A0
D7 D6 D5 D4 D3 D2 D1 D0
S301
E4
U123
VCC 32
GND 16
CE 22
OE 24
1MJEDEC
4 LS74
PS
2 D S269 Q 5
H9
3 CK U115 Q 6
CLR
1
SYSRES2
SD7
SD6
SD5
SD4
SD3
SD2
SD1
SD0
S302
C6
U124
S303
C4
U125
S304
E6
U126
FOR EPROM ONLY
VDIN
11 LS273
CK
3D 7D 6D 5D 4D 3D 2D 1D
S252
F15
U26
CLR
1
4 LS74
PS
2 D S258 Q 5
H20
3 CK U106 Q 6
CLR
1
VST
4 LS74
PS
2 D S260 Q 5
E10
3 CK U119 Q 6
CLR
1
SRES
SYSRES2
R23
47K
D14
R22
47K
D13
X2
640KHZA
E14
C69
220PC
E14
C75
220PC
F14
LS367
2 3
S262
E21
U92
BSY
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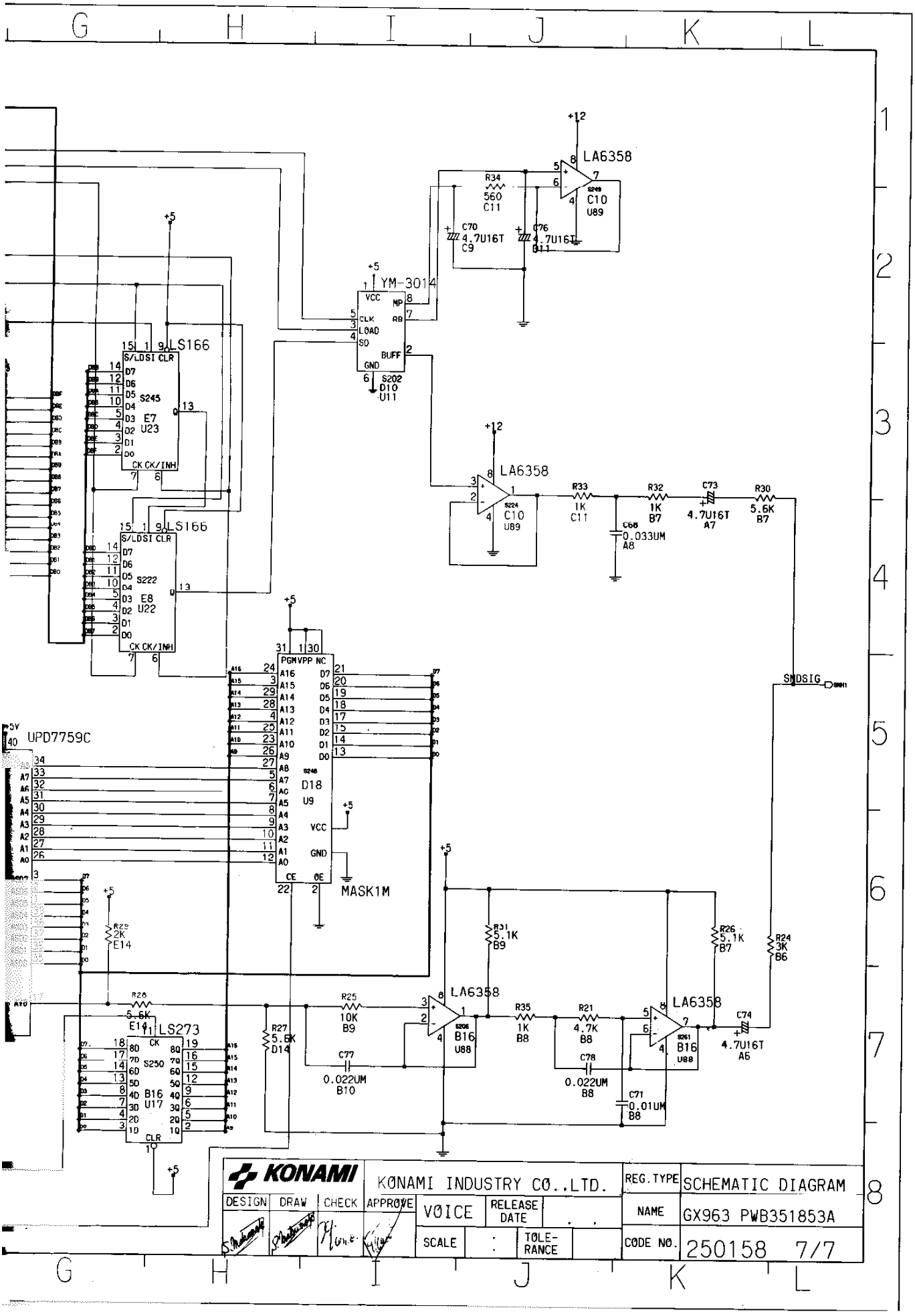
LS04
3 4
S264
D8
U111
LS04
11 10
S305
D8
U111


+12
LA6358
R34
560
C11
C70
4.7U16T
C9
C76
4.7U16T
D11
C10
U89
+5
YM-3014
VCC
MP
CLK
RB
LOAD
SD
BUFF
GND
S202
D10
U11
LS166
S/LDSI CLR
D7
D6
D5
D4
D3
D2
D1
D0
CK CK/INH
S245
E7
U23
S222
E8
U22
R33
1K
C11
R32
1K
B7
C73
4.7U16T
A7
R30
5.6K
B7
C68
0.033UM
A8
SNDSIG
UPD7759C
PGM VPP NC
A16
A15
A14
A13
A12
A11
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
A0
CE
OE
S248
D18
U9
VCC
GND
MASK1M
R29
2K
E14
R28
5.6K
E14
LS273
CK
S250
B16
U17
CLR
R27
5.6K
D14
R25
10K
B9
C77
0.022UM
B10
R31
5.1K
B9
R35
1K
B8
R21
4.7K
B8
C78
0.022UM
B8
C71
0.01UM
B8
R26
5.1K
B7
R24
3K
B6
C74
4.7U16T
A6
S206
B16
U88
S261
B16
U88
KONAMI
KONAMI INDUSTRY CO.,LTD.
DESIGN
DRAW
CHECK
APPROVE
VOICE
RELEASE DATE
SCALE
TOLE-RANCE
REG.TYPE
SCHEMATIC DIAGRAM
NAME
GX963 PWB351853A
CODE NO.
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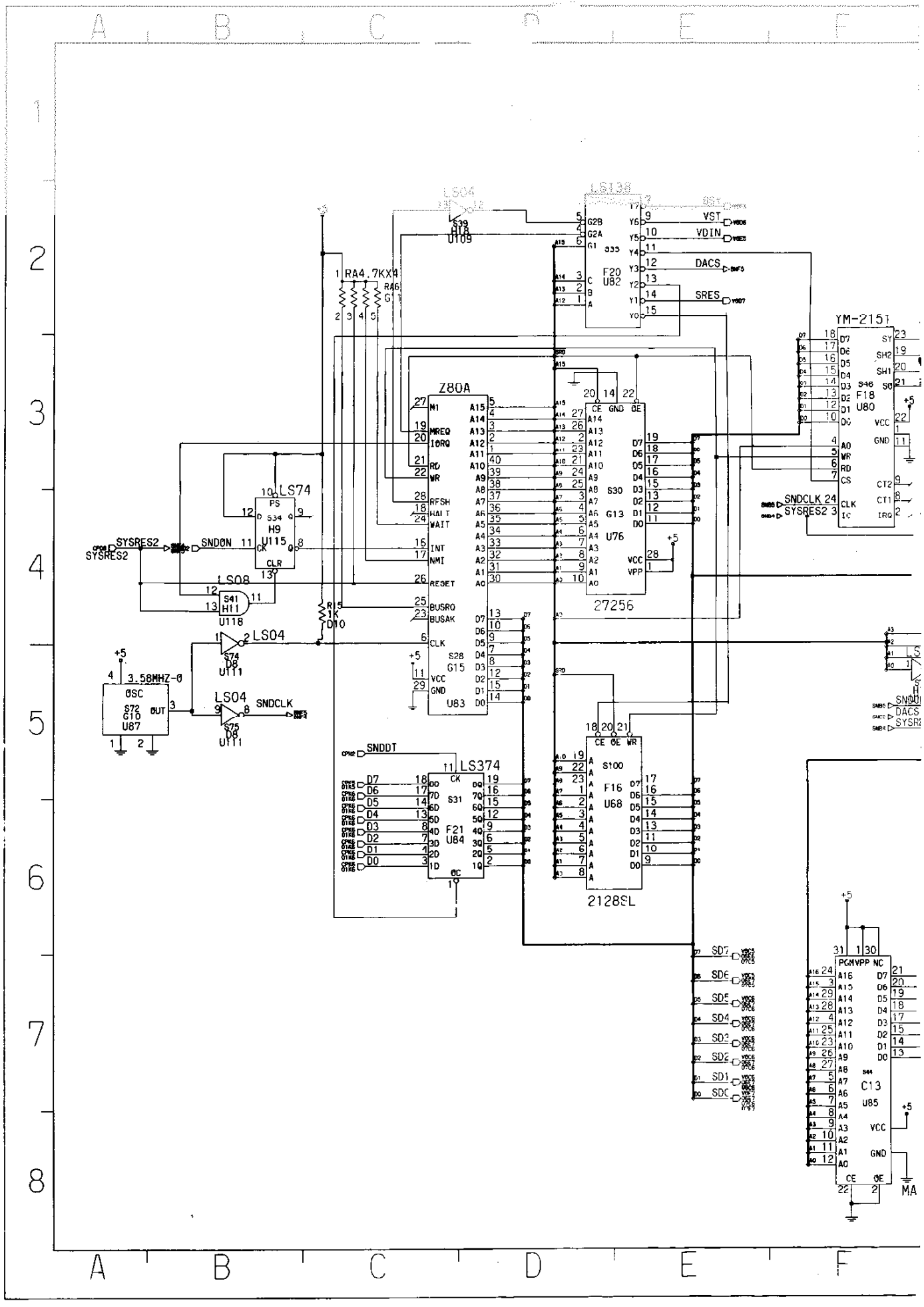
LS04
S39
H18
U109
LS138
VST
VDIN
DACS
SRES
RA4.7KX4
R46
F20
U82
YM-2151
F18
U80
Z80A
S30
G13
U76
27256
LS74
H9
U115
SYSRES2
SNDON
LS08
S41
H11
U118
R45
1K
D10
LS04
S74
D8
U111
3.58MHZ-0
OSC
S72
G10
U87
LS04
S75
D8
U111
SNDCLK
SNDDT
LS374
S31
F21
U84
S28
G15
U83
S100
F16
U68
2128SL
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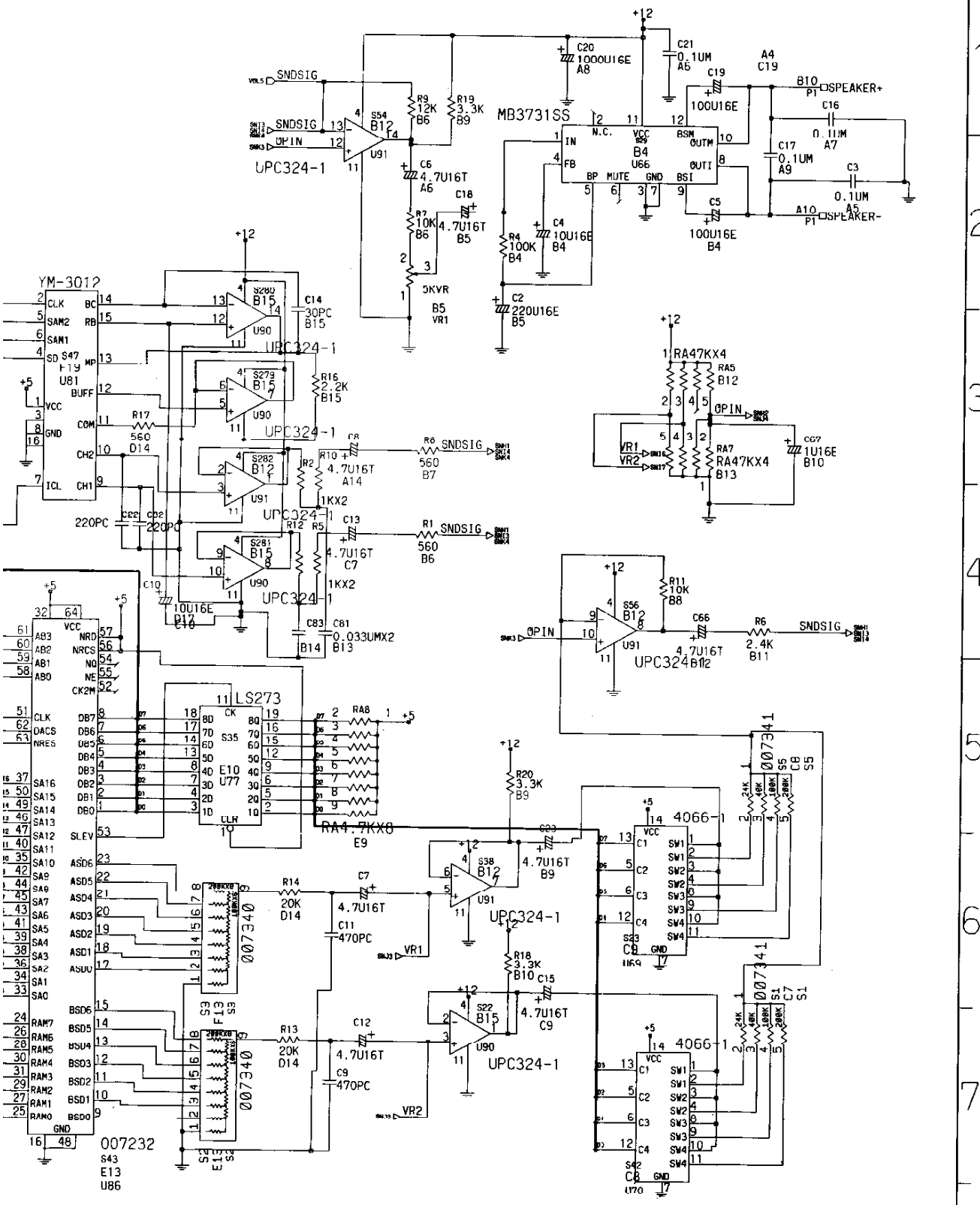
U85
VCC
GND
MA



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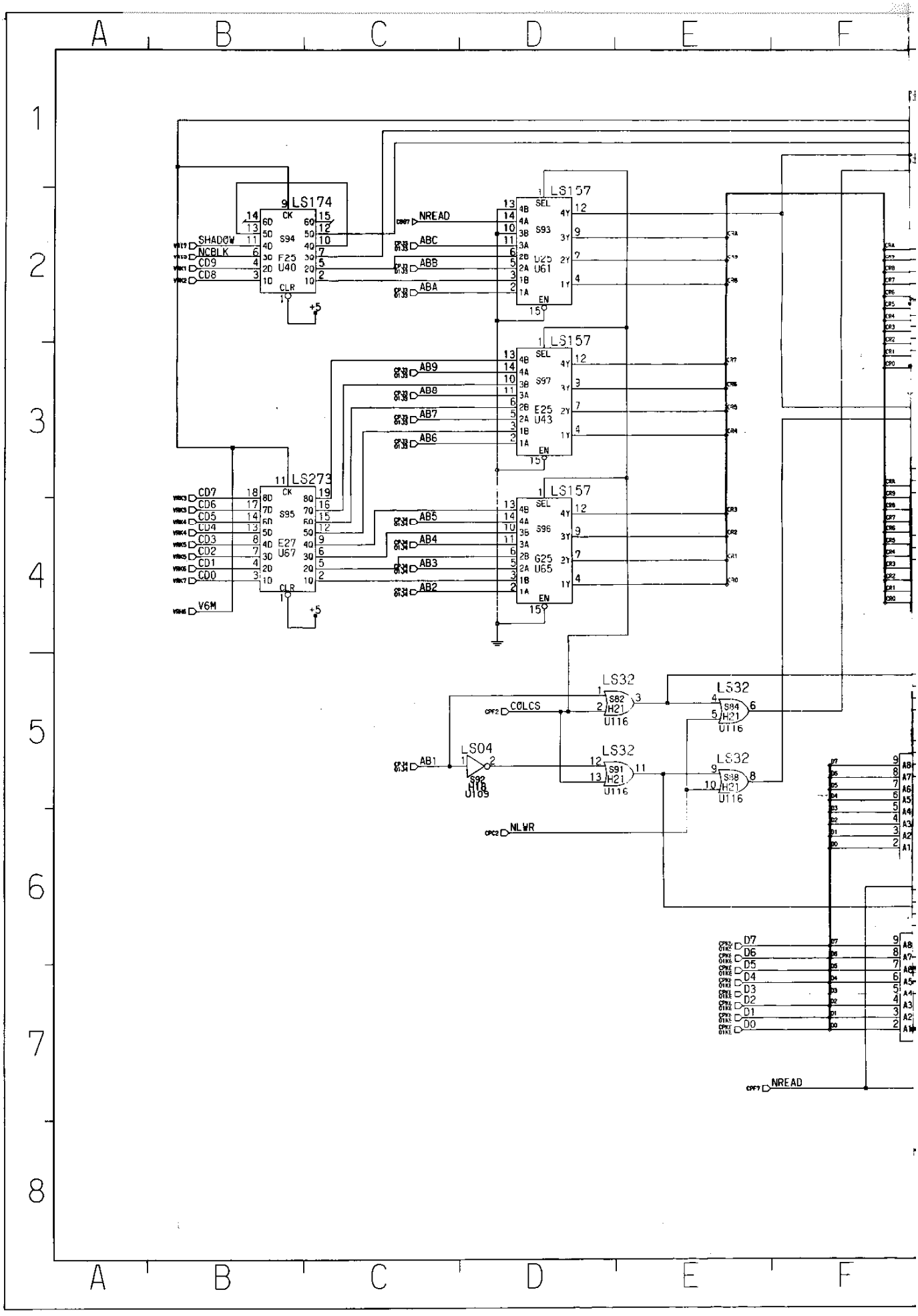
A
B
C
D
E
F
1
2
3
4
5
6
7
8
LS174
S94
F25
U40
SHADOW
NCBLK
CD9
CD8
CLR
+5
NREAD
ABC
ABB
ABA
LS157
S93
U25
U61
AB9
AB8
AB7
AB6
S97
E25
U43
AB5
AB4
AB3
AB2
S96
G25
U65
LS273
S95
E27
U67
CD7
CD6
CD5
CD4
CD3
CD2
CD1
CD0
V6M
LS32
S82
H21
U116
COLCS
S84
AB1
LS04
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D6
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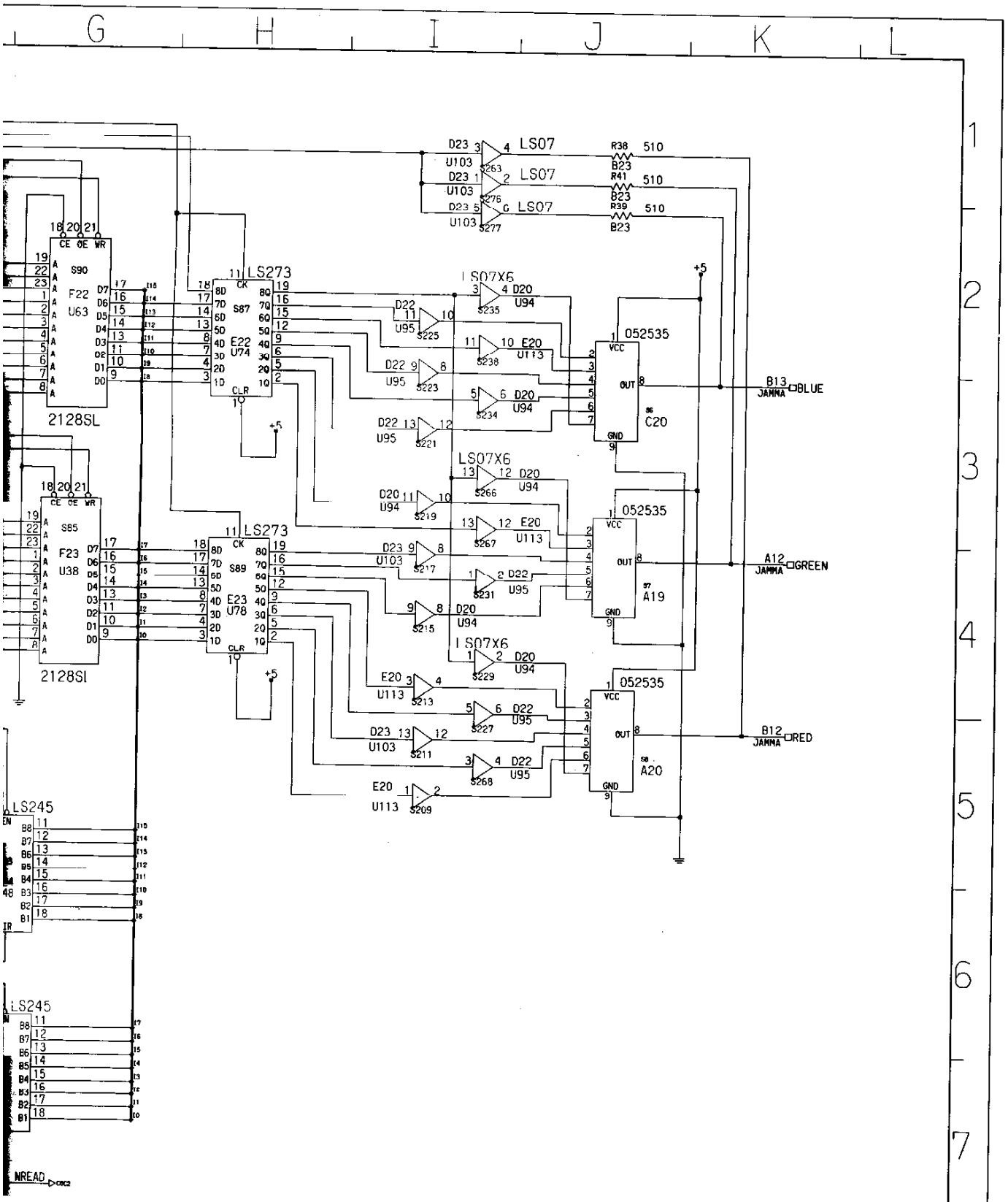
D4
D3
D2
D1
D0
NREAD



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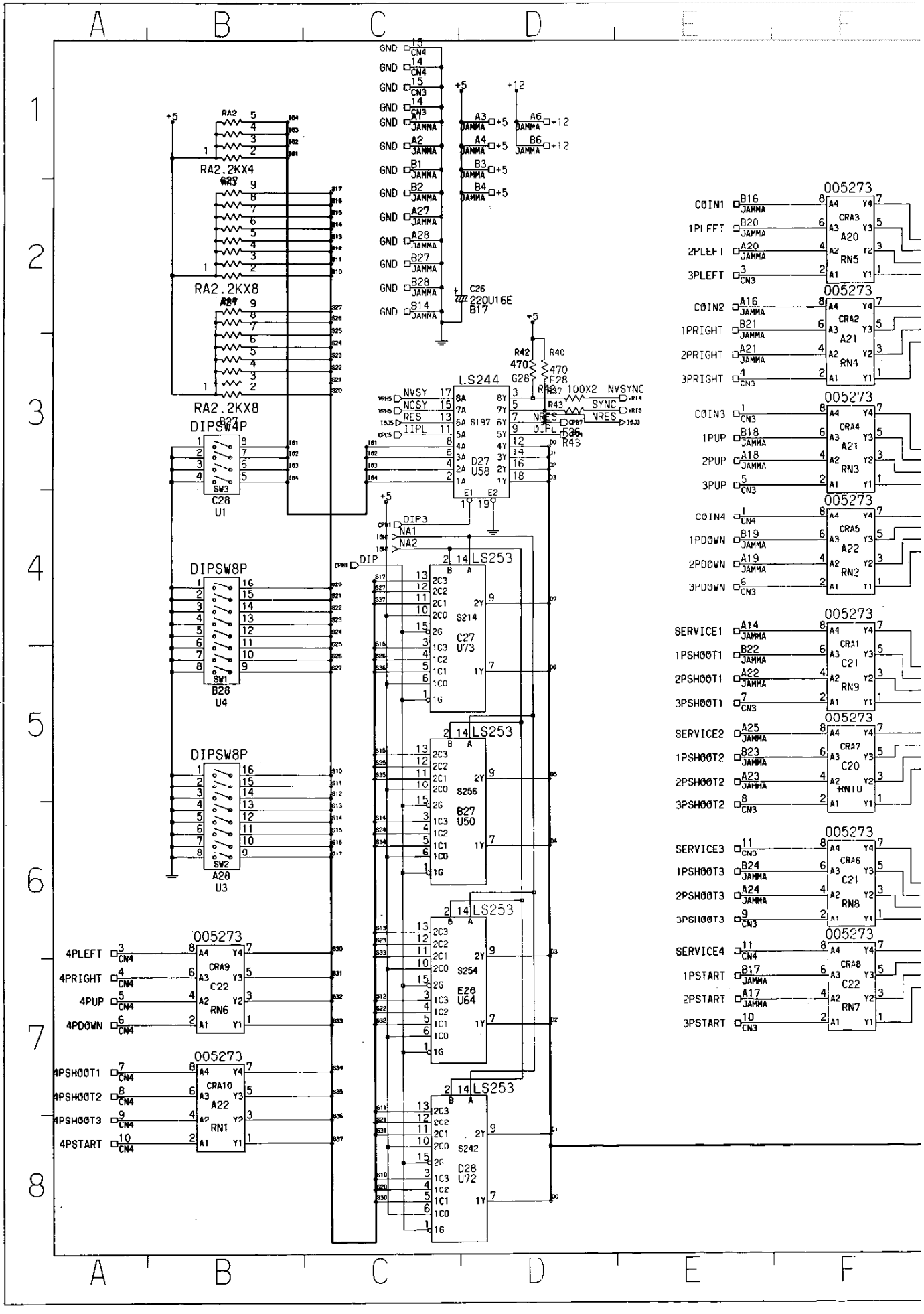
A
B
C
D
E
F
1
2
3
4
5
6
7
8
GND
+5
+12
RA2.2KX4
RA2.2KX8
DIPSW4P
DIPSW8P
C28
U1
B28
U4
A28
U3
LS244
LS253
S214
C27
U73
S256
B27
U50
S254
E26
U64
S242
D28
U72
220U16E
B17
NVSY
NCSY
RES
IIPL
NVSYNC
SYNC
NRES
DIP3
NA1
NA2
DIP
005273
CRA3
CRA2
CRA4
CRA5
CRA9
CRA10
CRA1
CRA7
CRA6
CRA8
A20
A21
A18
A19
A22
C22
RN1
RN2
RN3
RN4
RN5
RN6
RN7
RN8
RN9
RN10
C0IN1
1PLEFT
2PLEFT
3PLEFT
C0IN2
1PRIGHT
2PRIGHT
3PRIGHT
C0IN3
1PUP
2PUP
3PUP
C0IN4
1PDOWN
2PDOWN
3PDOWN
4PLEFT
4PRIGHT
4PUP
4PDOWN
SERVICE1
1PSHOOT1
2PSHOOT1
3PSHOOT1
SERVICE2
1PSHOOT2
2PSHOOT2
3PSHOOT2
SERVICE3
1PSHOOT3
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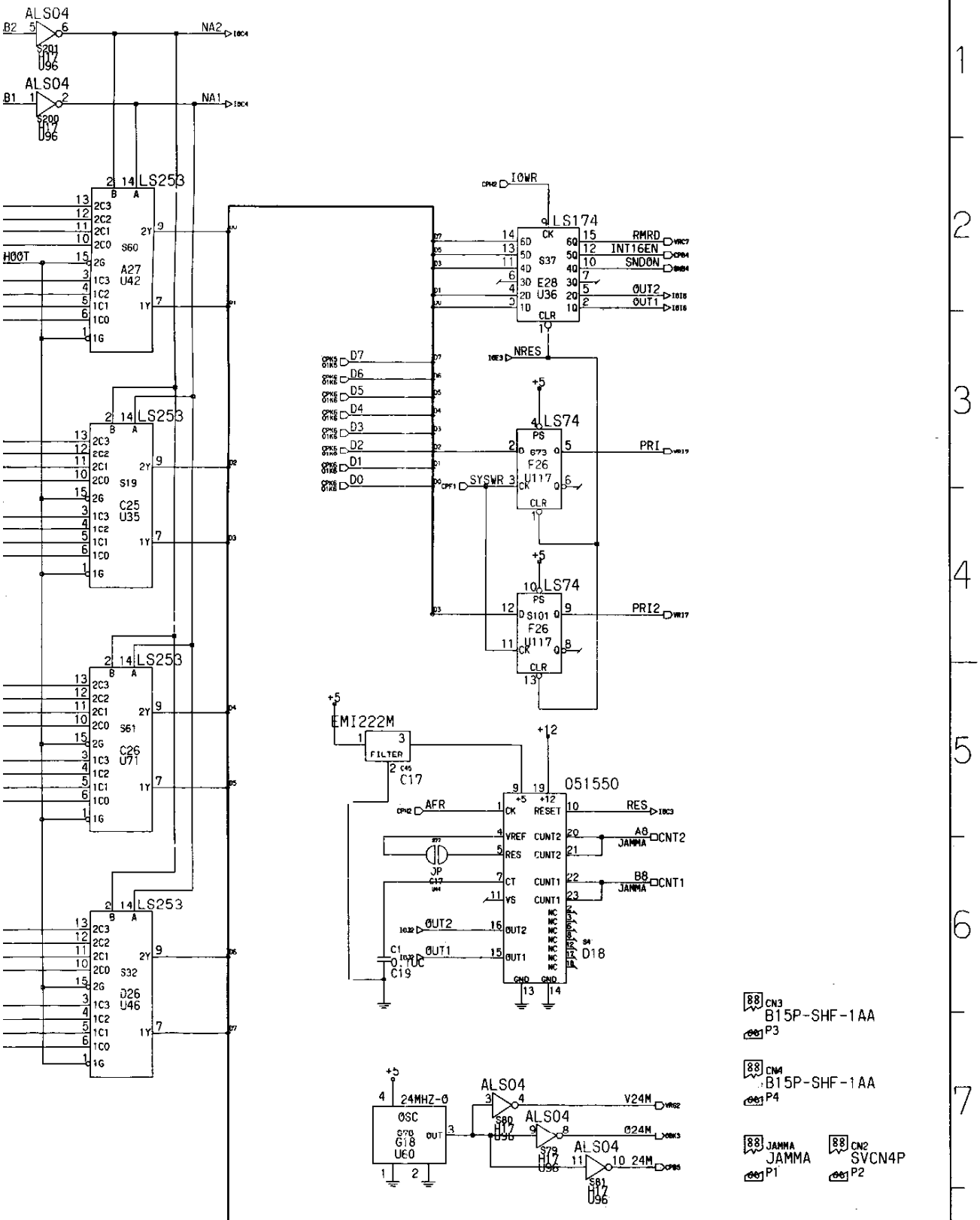
4PSTART



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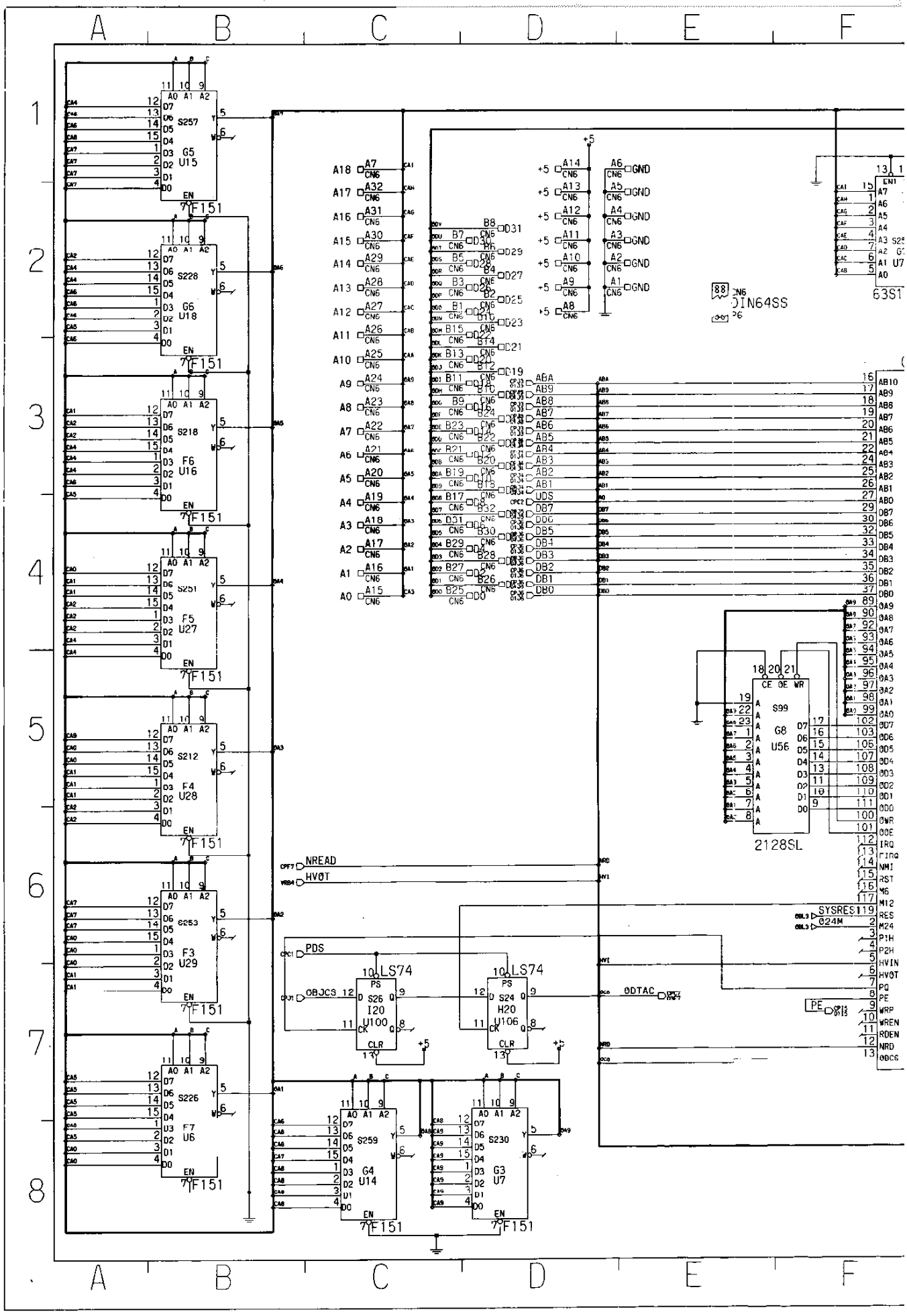
DESIGN	DRAW	CHECK	APPROVE	IØ	RELEASE DATE		NAME	GX963 PWB351853A
				SCALE	:	TØLE-RANCE	CØDE NØ.	250158 4/7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S228 G6 U18 7F151
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S212 F4 U28 7F151
S253 F3 U29 7F151
S226 F7 U6 7F151
S259 G4 U14 7F151
S230 G3 U7 7F151
S99 G8 U56 2128SL
74LS74 I20 U100
74LS74 H20 U106
63S1
DIN64SS
NREAD
HVØT
PDS
ØBJC3
ØDTAC
SYSRES
Ø24M
PE
UDS
ØWR
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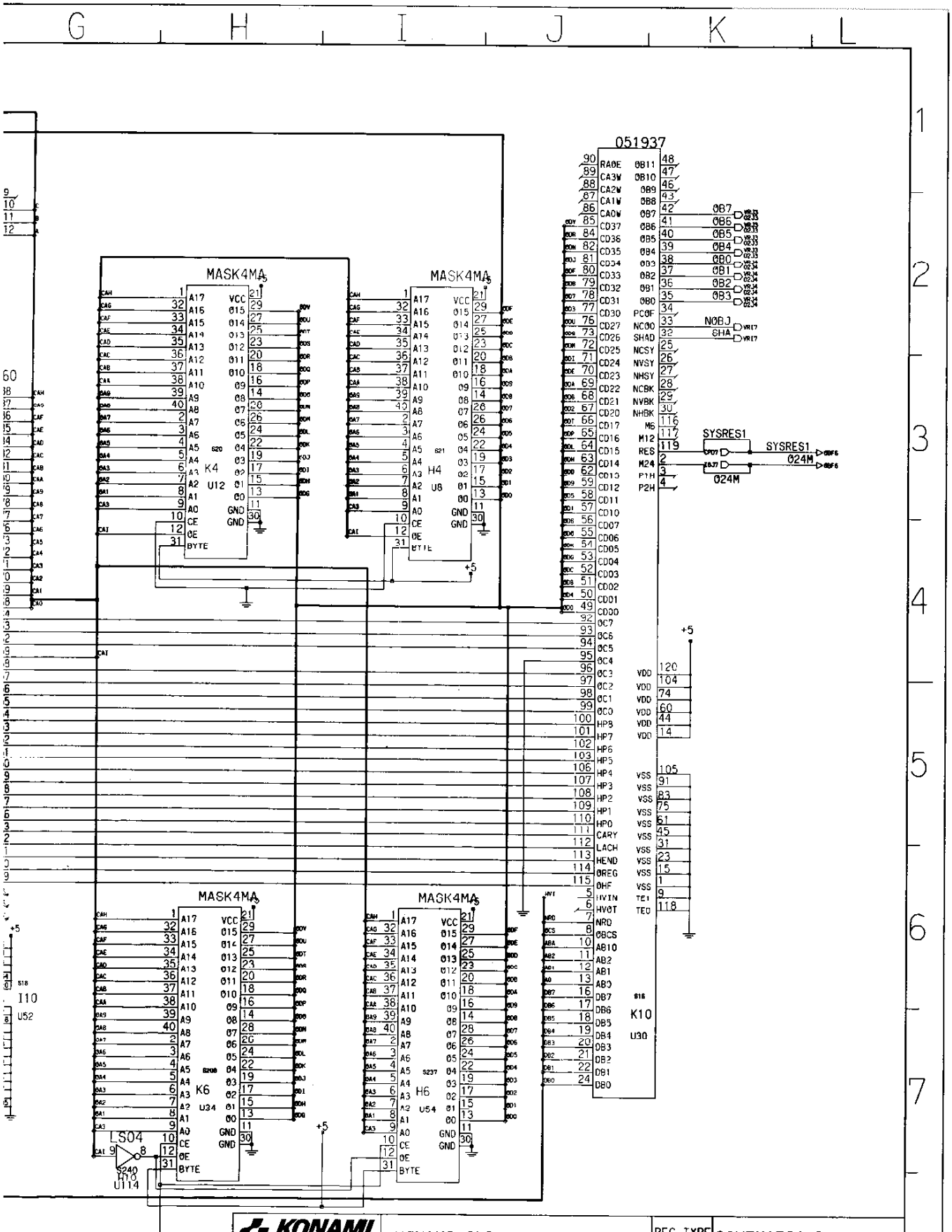

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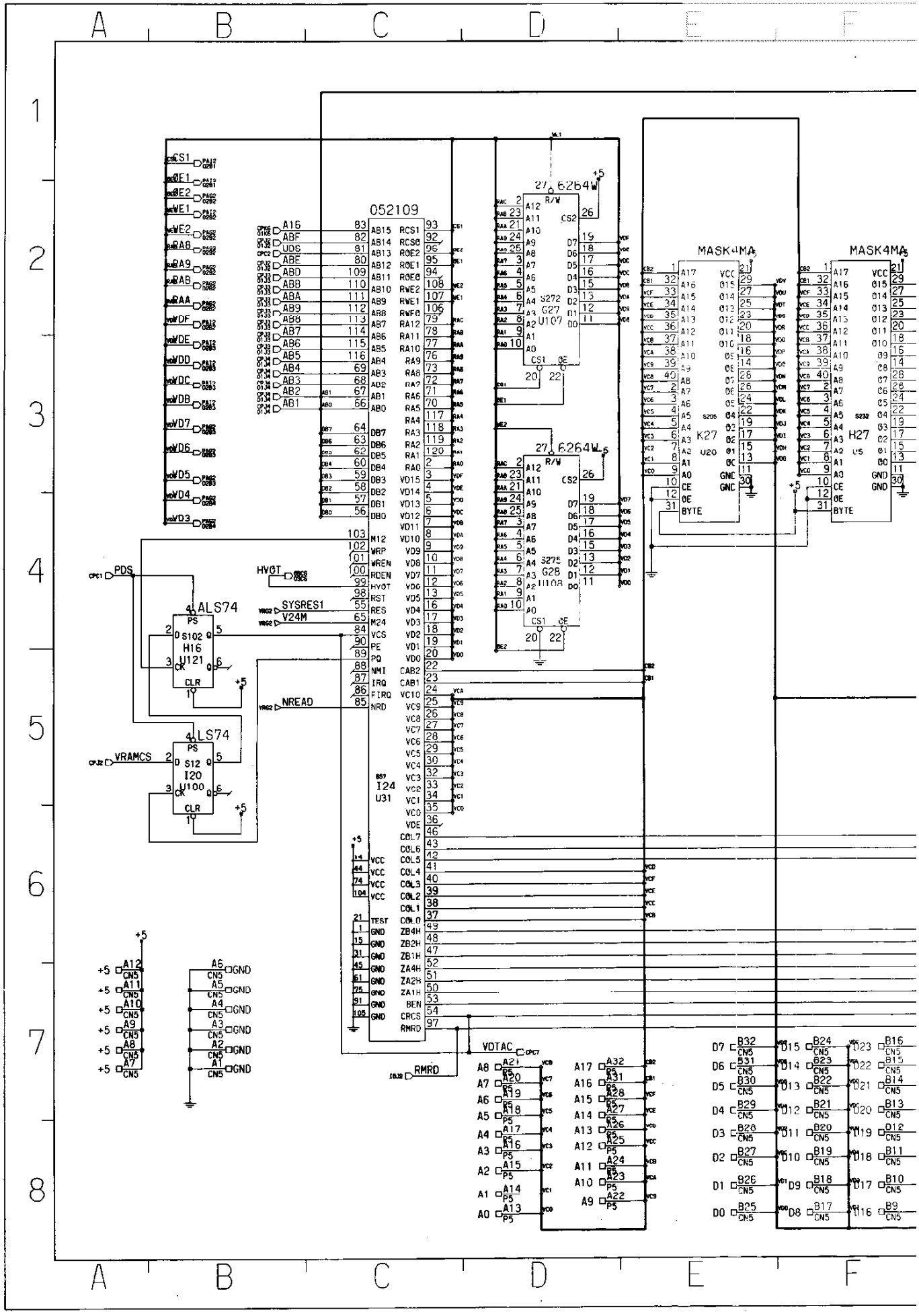
DESIGN	DRAW	CHECK	APPROVE	0BJ	RELEASE DATE	. .	NAME	GX963 PWB351853A
				SCALE	:	TOLE-RANCE	CODE NO.	250158 3/7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27 6264W
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LS74
PDS
HVOT
SYSRES1
V24M
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VRAMCS
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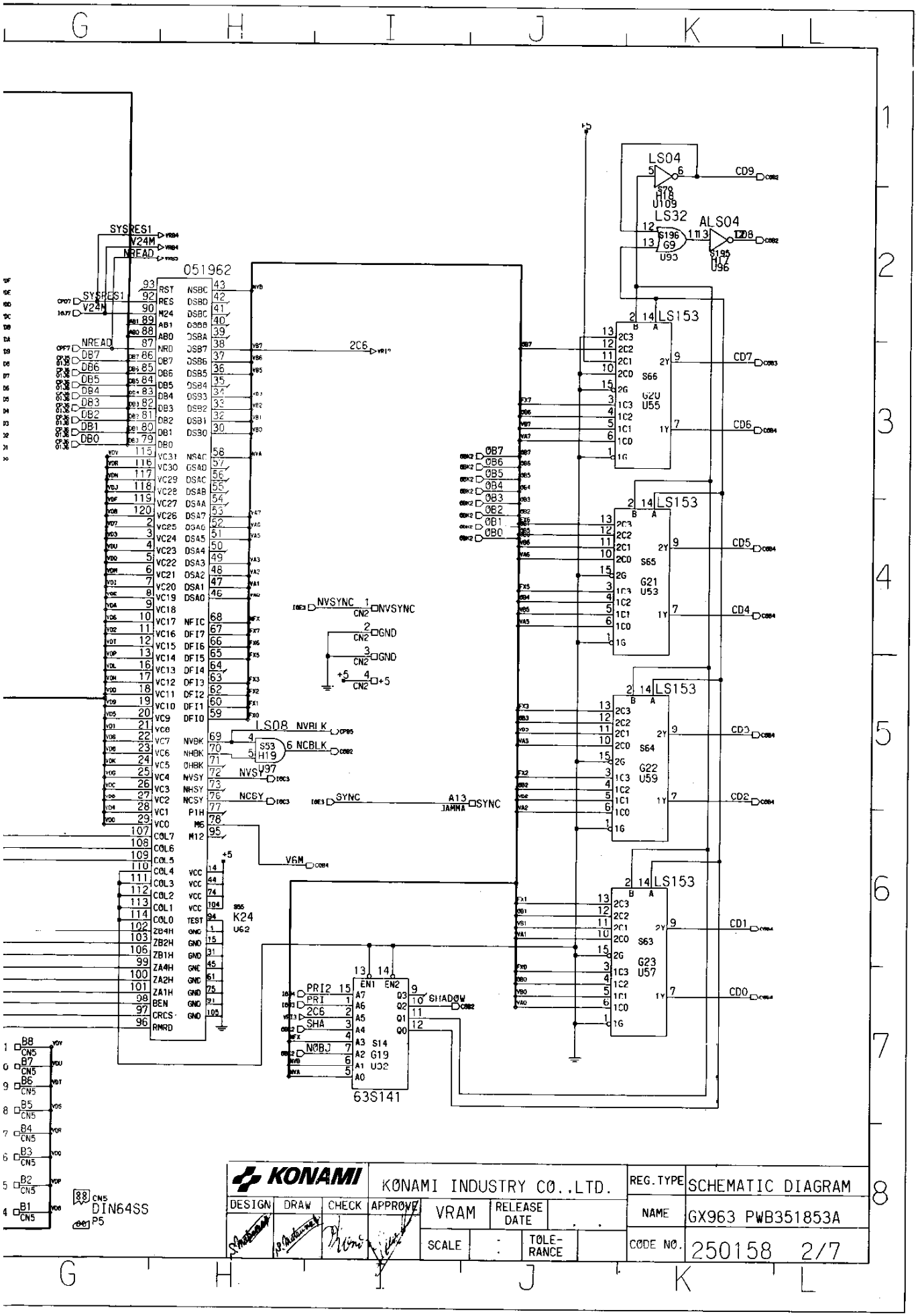

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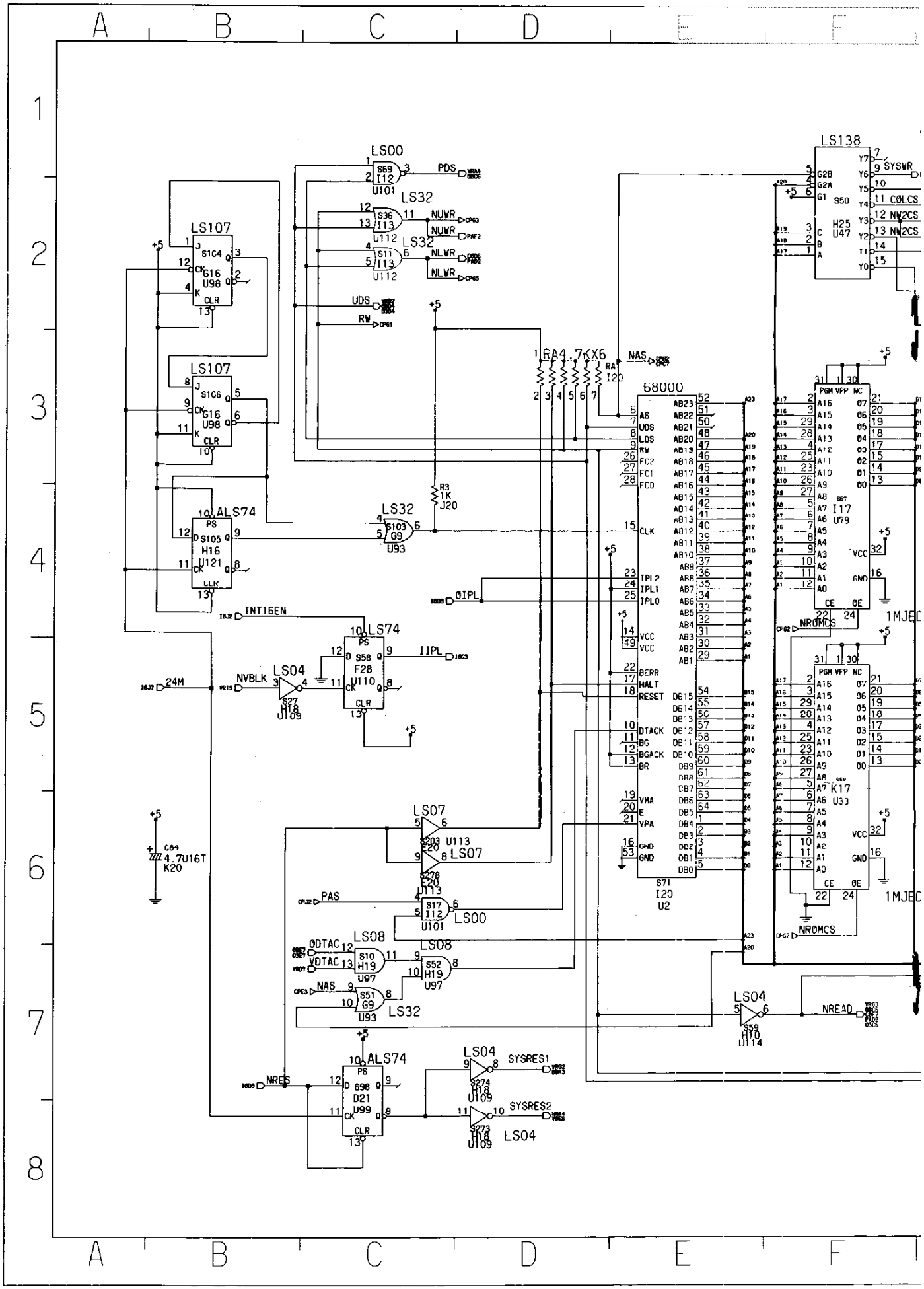
				SCALE	:	TOLE-RANCE	CODE NO.	250158 2/7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LS32
LS107
LS107
LS32
ALS74
LS74
LS04
LS07
LS07
LS08
LS08
LS32
ALS74
LS04
LS04
LS04
LS138
RA4.7KX6
68000
PDS
NUWR
NUWR
NLWR
NLWR
UDS
RW
NAS
R3
1K
J20
INT16EN
NVBLK
24M
IIPL
0IPL
PAS
0DTAC
VDTAC
NAS
NRES
SYSRES1
SYSRES2
NREAD
SYSWR
COLCS
NW2CS
NW2CS
NROMCS
NROMCS
1MJEC
1MJEC
4.7U16T
K20
U101
U112
U112
U93
U121
U109
U110
U113
U113
U101
U97
U97
U93
U114
U109
U109
U2
I20
U79
I17
U33
K17
H25
U47
S50
U98
U98
U99
F28
D21
H10
H18
H18
H18
H19
H19
H16
G16
G16
G9
I12
I13
I13
I12
F20
F20
G9
S71
S69
S36
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S58
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S17
S10
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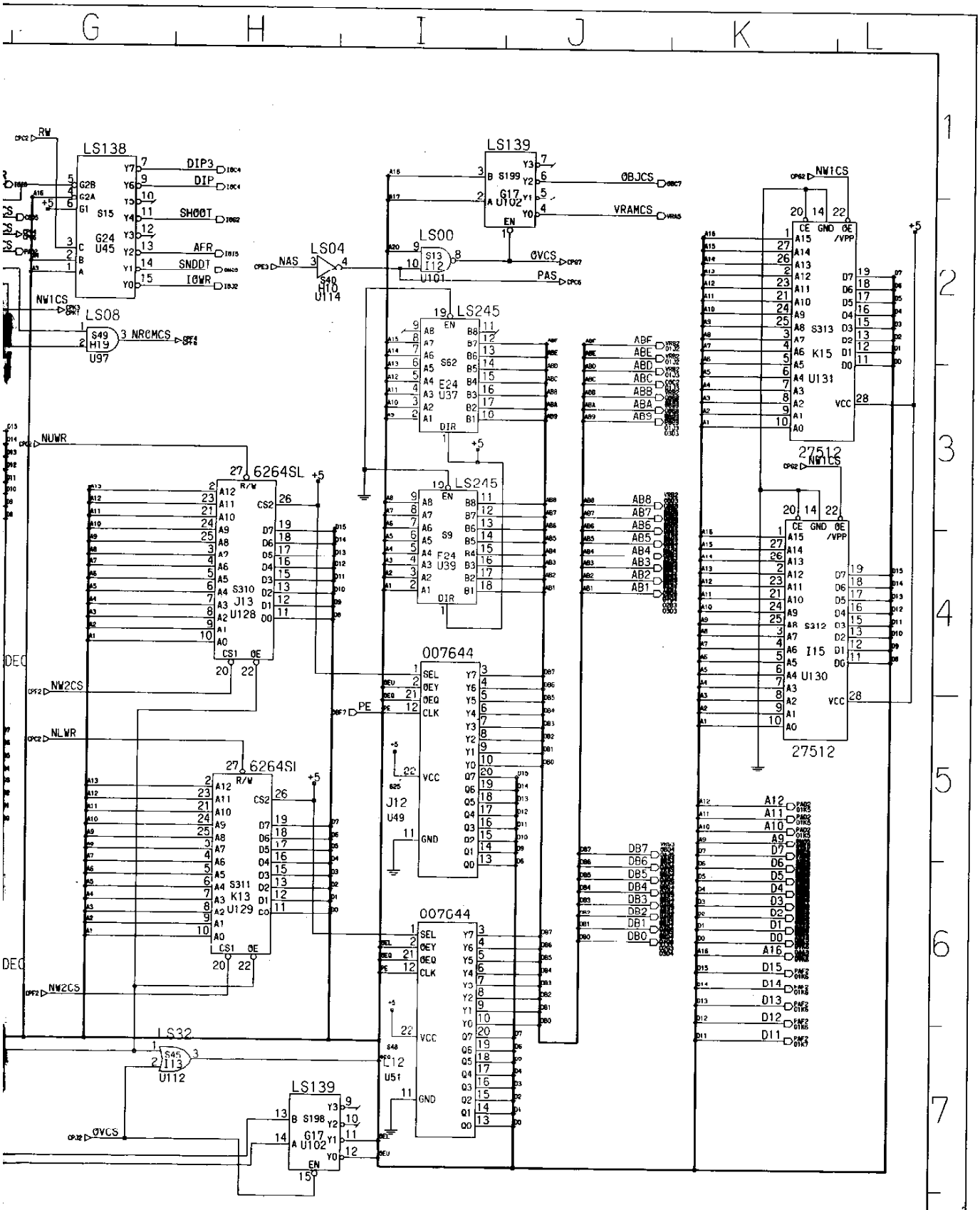
S51
S98
S59
S274
S273
S27



KONAMI	KONAMI INDUSTRY CO.,LTD.		REG.TYPE	SCHEMATIC DIAGRAM
DESIGN	DRAW	CHECK	APPROVE	CPU	RELEASE DATE		NAME	GX963 PWB351853A
				SCALE	:	TOLE-RANCE	CODE NO.	250158 1/7

USER INFORMATION

WARNING

F.C.C. REGULATION COMPLIANCE

THIS EQUIPMENT COMPLIES WITH THE REQUIREMENTS IN PART 15 OF FCC RULES FOR A CLASS A COMPUTING DEVICE. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA MAY CAUSE UNACCEPTABLE INTERFERENCE TO RADIO AND TV RECEPTION, REQUIRING THE OPERATOR TO TAKE WHATEVER STEPS ARE NECESSARY TO CORRECT THE INTERFERENCE.

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