

MONACO GP™

STAND MODEL

MANUFACTURED BY



MANUAL PART NO. 420·0445

OWNER'S MANUAL

MONACO GP

Stand Model

The logo consists of the word "Gremlin" in a stylized font where the "G" has a circular arrow around it, followed by a diagonal slash, and then the word "SEGA" in a bold, sans-serif font.

MONACO GP Game Description:

When the coins are deposited, the player's red car appears in the lower right corner of the screen. Drive the car using the steering wheel and accelerator pedal, avoiding collisions with the computer cars. Game time is set to a count of 90.

Player goes into extended play when he reaches a score of 2000 points. In extended play, the player wins an extra car; and, one extra car is awarded after every additional 2000 points. The game becomes more difficult after a score of 6000 points. The player's car speeds up and, at 8000 points, the computer cars speed up.

The game's front panel displays your score and the top 5 high scores. Also, each player is given a ranking out of the total numbers of players to date.

Adjustments and Options:

There are 2 game options, located on the #96577A main logic board:

1. VR1- trim pot- adjusts game time
2. SW1- slide switch- selects either 1 or 2 plays per coin.

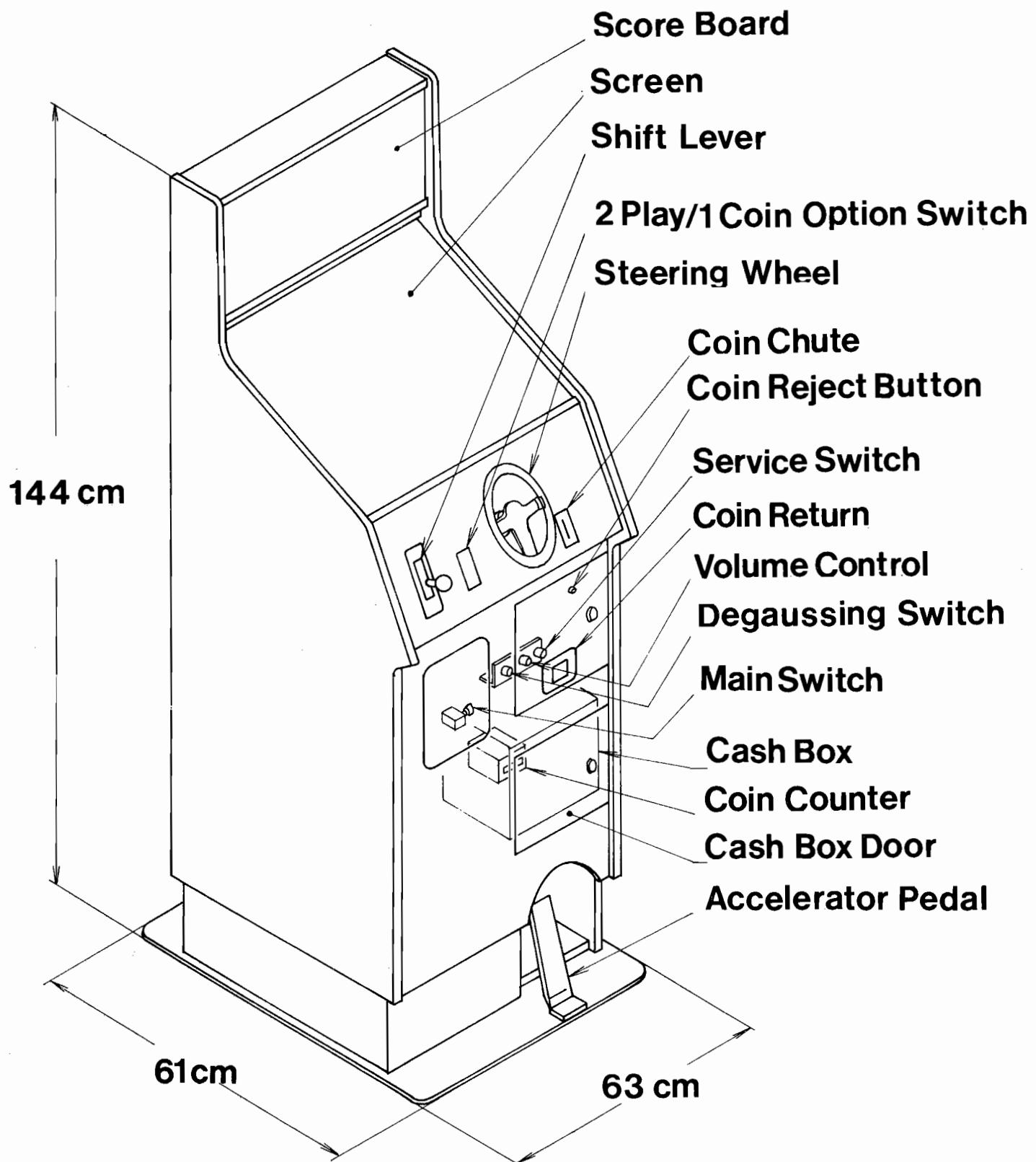
NOTE: On the sound board (#96598) there are 7 trim pots: These are for adjusting the FANFARE sound. They are pre-set by the factory.

Also on this board are 2 switches, SW1 and SW2. SW1 should be set so that positions 1,2, and 3 are OFF. Position 4 should be ON. Switch SW2 should be set to positions 1 and 2 OFF.

Descriptions and Part Numbers of MONACO GP logic boards:

<u>Logic board</u>	<u>Part Number Stamped on Board</u>
Main logic, A	96577-P
Main logic, B	96578-P
Sound (oscillator)	96598-P
Display board	96597-P
Display board	M0-4202
Accelerator board	96599-P
Edge connector board	96620-P
Edge connector board	96624-P

BASIC CONTROLS & DIMENSIONS



HELPFUL HINTS

DEGAUSSING THE CRT

Sometimes changing the location, or direction of the machine will cause a color change in the CRT. If this occurs, depress the DEGAUSSING SWITCH to correct.

DISASSEMBLING THE POWER UNIT

The power unit, located on the bottom of the unit, can be removed by unscrewing the three (3) butterfly (M5) bolts; and, disconnecting it from the rail before lifting out.

DISASSEMBLING THE STEERING UNIT

Remove the connecting plug and unhook the side hooks on each side of the unit. The steering unit will come out with the front panel.

REMOVING THE TV MONITOR

Remove the front panel and front glass. Loosen the four (4) mounting screws and remove all connections very carefully. The monitor is ready to pull out.

RESETTING THE SYSTEM

Occasionally, the signals will not reset when powering up. If this occurs, turn the power on/off a few times to reset the signal to the monitor.

FUSE REPLACEMENT

Always replace any fuse with the proper replacement of the same identical value.

2 PLAY/1 COIN OPTION

Remove the Front Panel Cover Plate and replace Panel Switch with M0-0019 (Instruction & Switch Assy).

Reconnect harness following wiring diagram.

Drill a 1.5mm hole over the old hole on the Denominational Plate. Add new plate

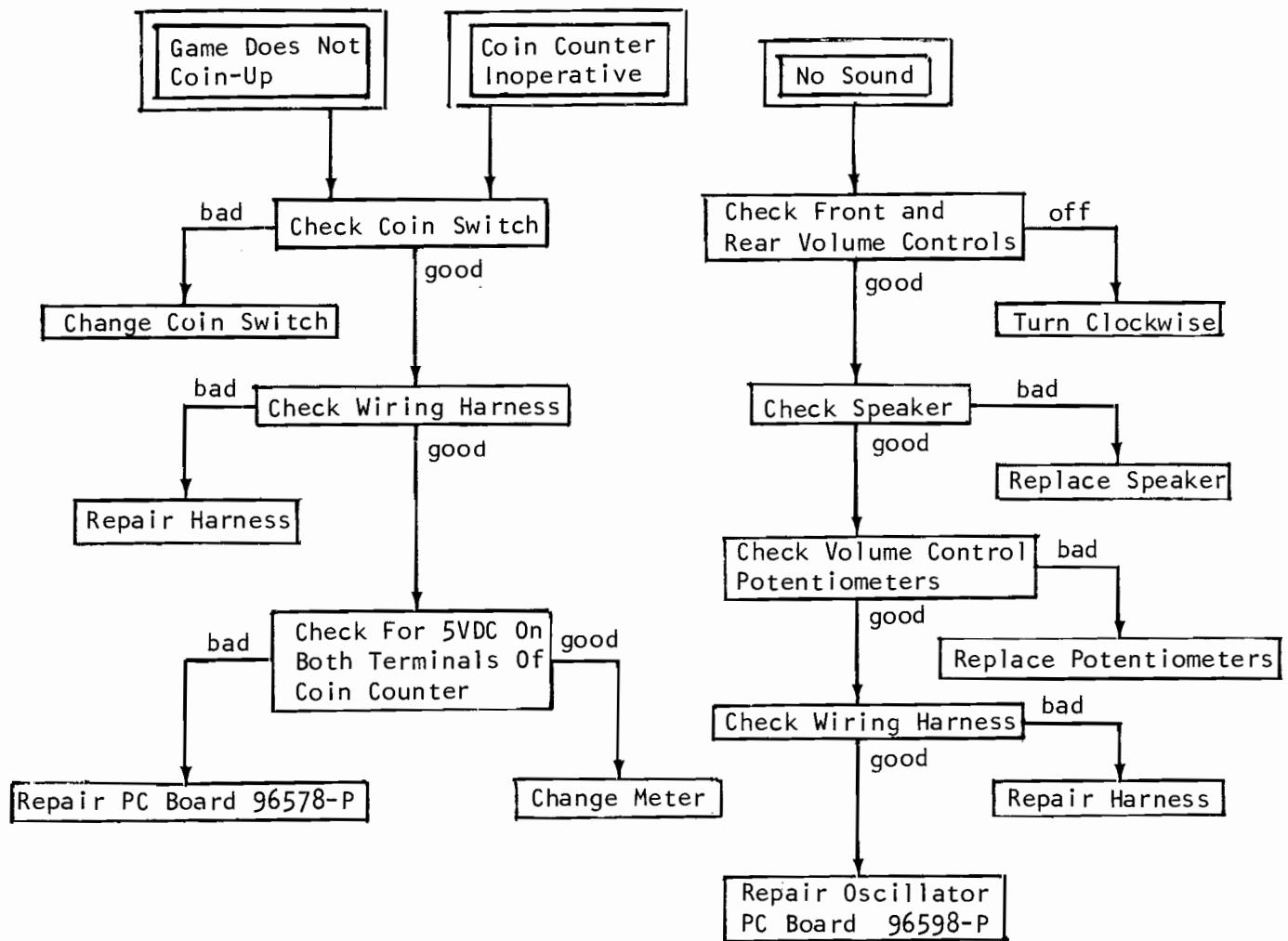
HELPFUL HINTS (cont.)

2 PLAY/1 COIN OPTION (cont.)

(177-013) with Parker Screws 1.5 x 4.5,
as supplied.

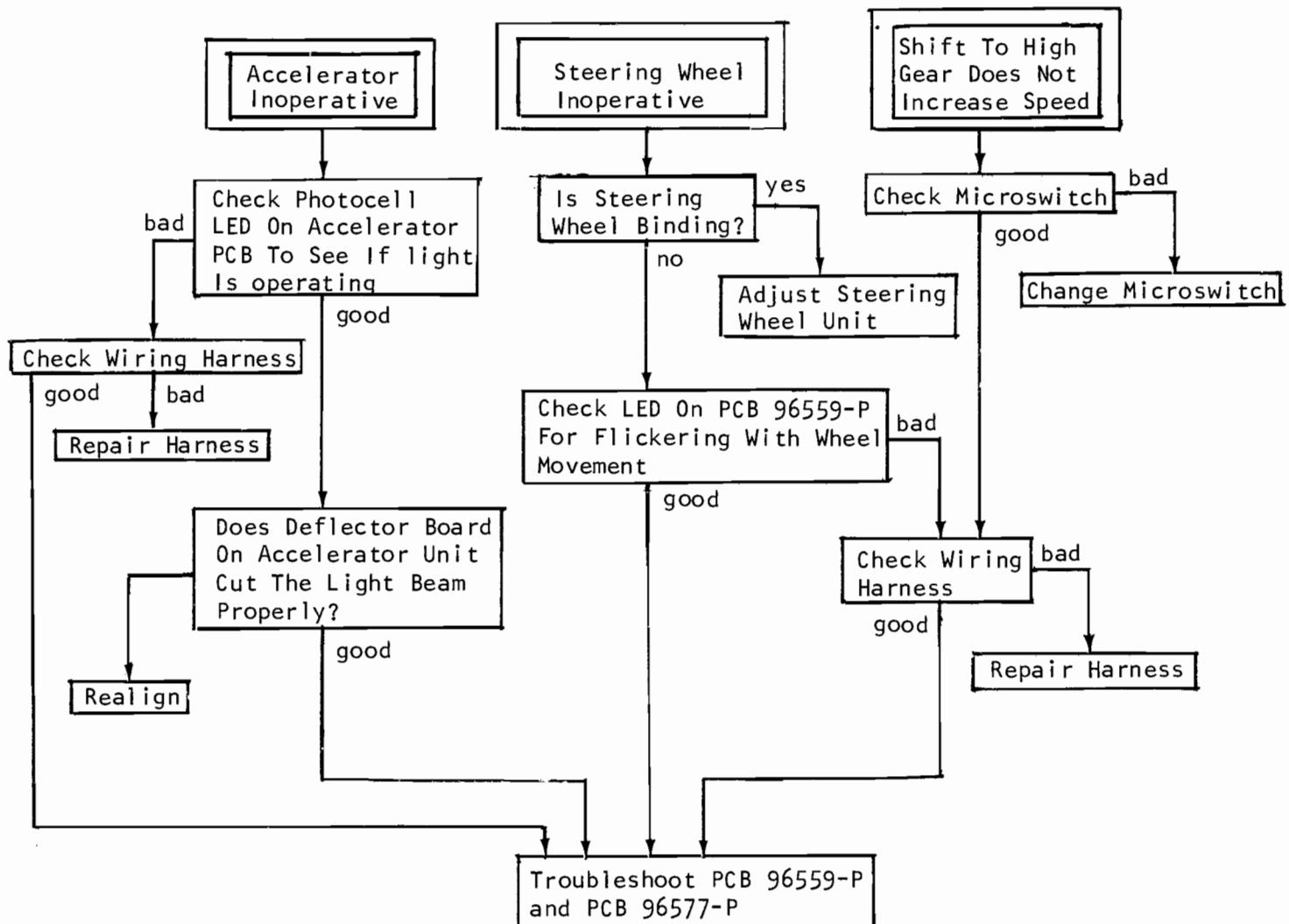
Set switch position to 2 PLAY on main
PCB 96577-P.

TROUBLESHOOTING
CHART 1



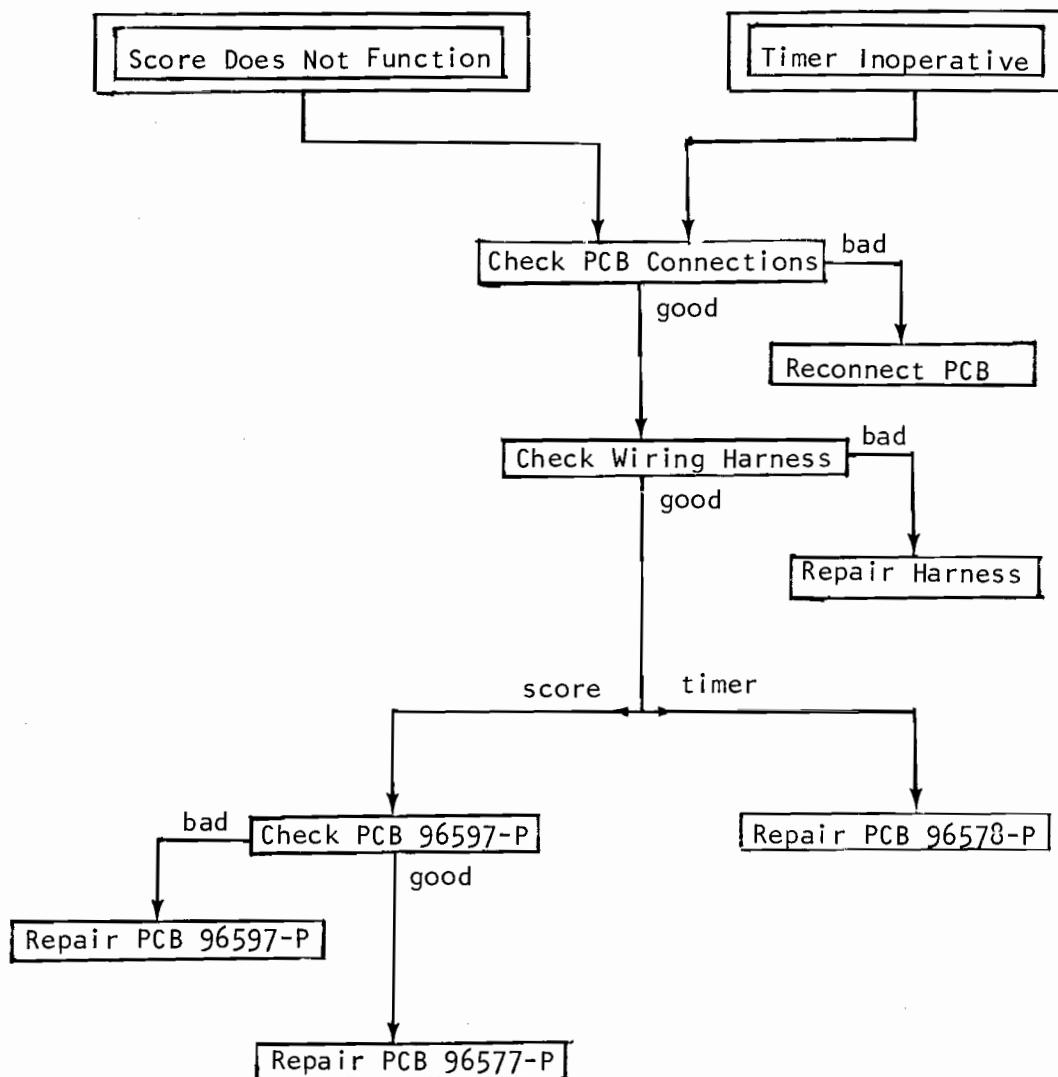
TROUBLESHOOTING

CHART 2

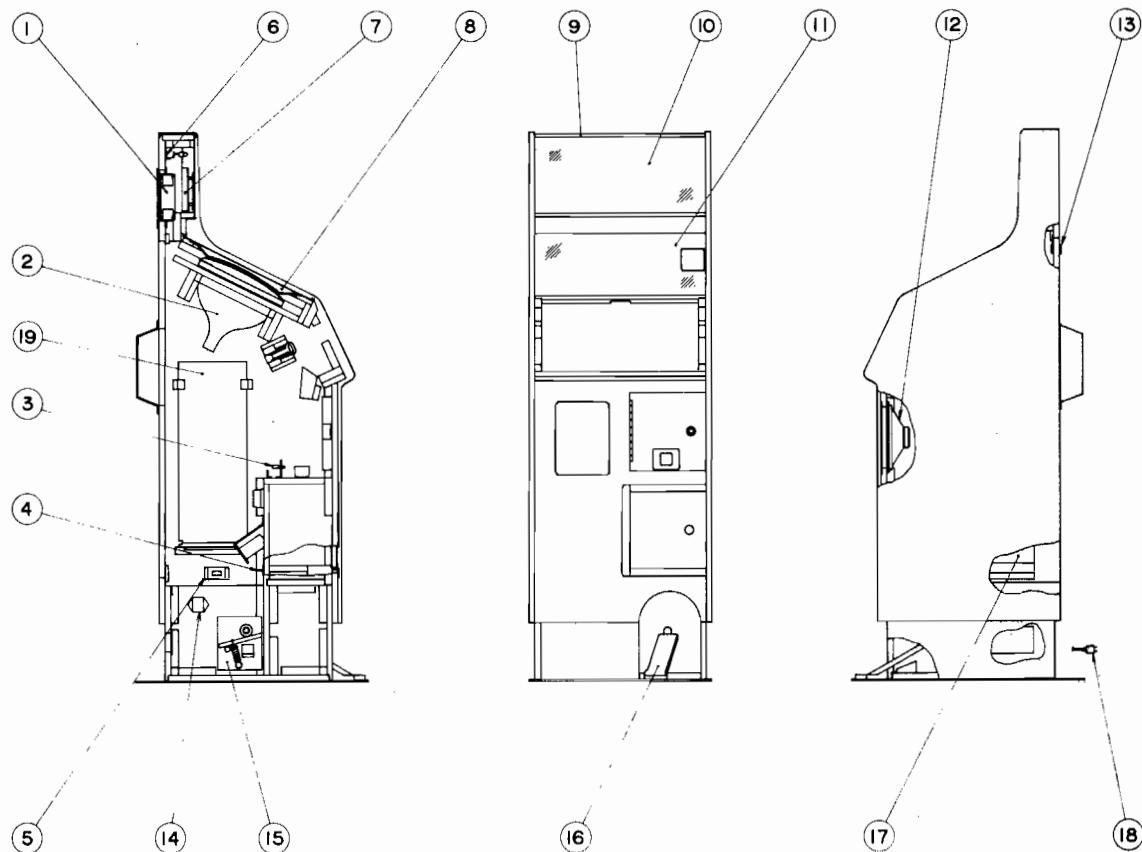


TROUBLESHOOTING

CHART 3

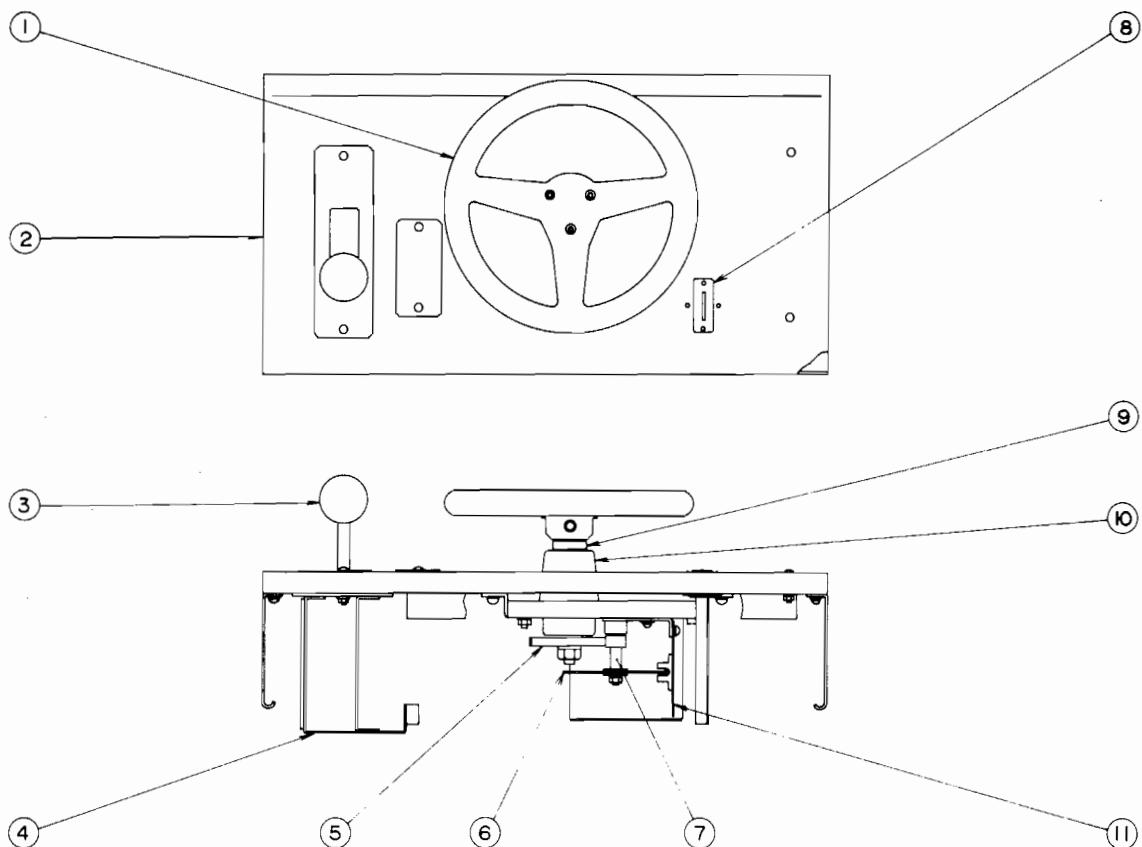


CABINET ACCESSORY ASSY



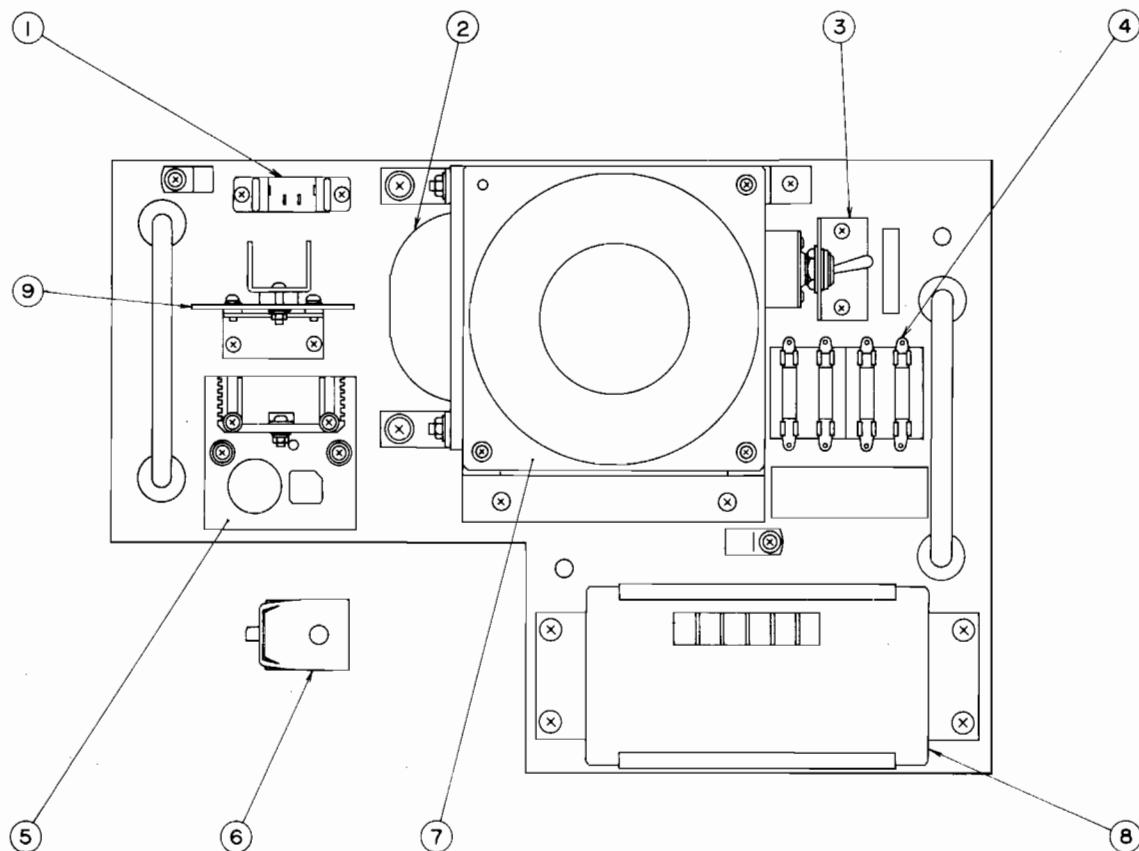
Item	Part No.	Description
1	S-96626	Axial Flow Fan, AC100V
2	CI-20006	Color Display Assy, 14H, 90
3	S-96477	Push Button Switch, 2T.
	S-93157	Volume Control, B-25KΩ
4	S-91654	Rectifier, Silicon Diode
5	S-90834	Switch, Push Button Type
6	S-94428	Bulb, 6.3V, 0.25A
7	MO-42001	Score Board Assy
	S-96600	L.E.D., Numeric Display, Red
	S-96679	L.E.D., Numeric Display, 2 Digit, Red
8	DO-1021	Color TV Mask, 14
9	MO-1032	Ornament Frame
10	MO-1033	Top Glass
11	MO-1064	Front Glass
	MO-1060	Play Instructions Plate
12	S-91359X	Speaker, 187x130mm, 8Ω
13	LS-1064	Ace Cylinder Lock, L.S. Type
14	S-96634	Noise Filter, AC 250V, 4A
15	MO-1016	Accelerator Pedal Assy
	PC-1206	Photocoupler Unit, A
	PC-1207	Photocoupler Unit, B
	SG-1112	Accelerator Pedal Shaft
	GP-1040	Shoulder Screw
	GP-1042	Extension Spring
	FL-3031	Extension Spring
	DH-3318	Shoulder Screw
16	S-80807	Accelerator Pedal
17	96577-P	IC Board Assy, Monaco GP, A
	96578-P	IC Board Assy, Monaco GP, B
	96598-P	Oscillator, Monaco GP
18	90759X	Cable & Plug Assy
19	96597-P	Score Display IC Board Assy

CONTROL PANEL ASSY



Item	Part No.	Description
1	MO-2021	Steering Handle
2	MO-2018	Front Panel
3	MP-1025	Handle Ball, Red
4	MO-2023	Transmission Assy
5	RR-1012	Handle Assy
6	SH-3022	Cam Assy
7	2P-11600	Rubber Bumper
8	2P-11601	Rubber Retainer
9	FC-2541	Compression Spring
10	S-80216	Steel Ball, 10.3188ø
11	S-91421	Switch, Micro Type
12	MO-2009	Spur Gear, 60T
13	MO-2007	Disc
14	MO-2008	Spur Gear, 14T
15	PT-0212	Coin Entry Plate, ¥100
16	MO-2020	Steering Wheel Shaft
17	MO-2004	Housing
18	96599-P	IC Board Assy, Monaco GP, C

POWER SUPPLY ASSY



Item	Part No.	Description
1	S-94441	Rectifier, Silicon Diode
2	96627	Power Transformer, 7V, 11V, 16V, 100-120V
3	S-96395	Switch Toggle, SP-DT, 15A
4	S-90644	Fuse, 2A
	S-91941	Fuse, 4A
	S-91151	Fuse, 8A
5	MO-4002	Regulator Unit, DC12V, 20V
6	S-96262	AC Cord, Connector Body, Flat Type, 125V-15A
7	S-96626	Axial Flow Fan, AC100V
8	S-96638	Switching Regulator, AC100V, 5V, 15A
9	BC-4603X	Power Amplifier, 5W

TV MONITOR ADJUSTMENTS

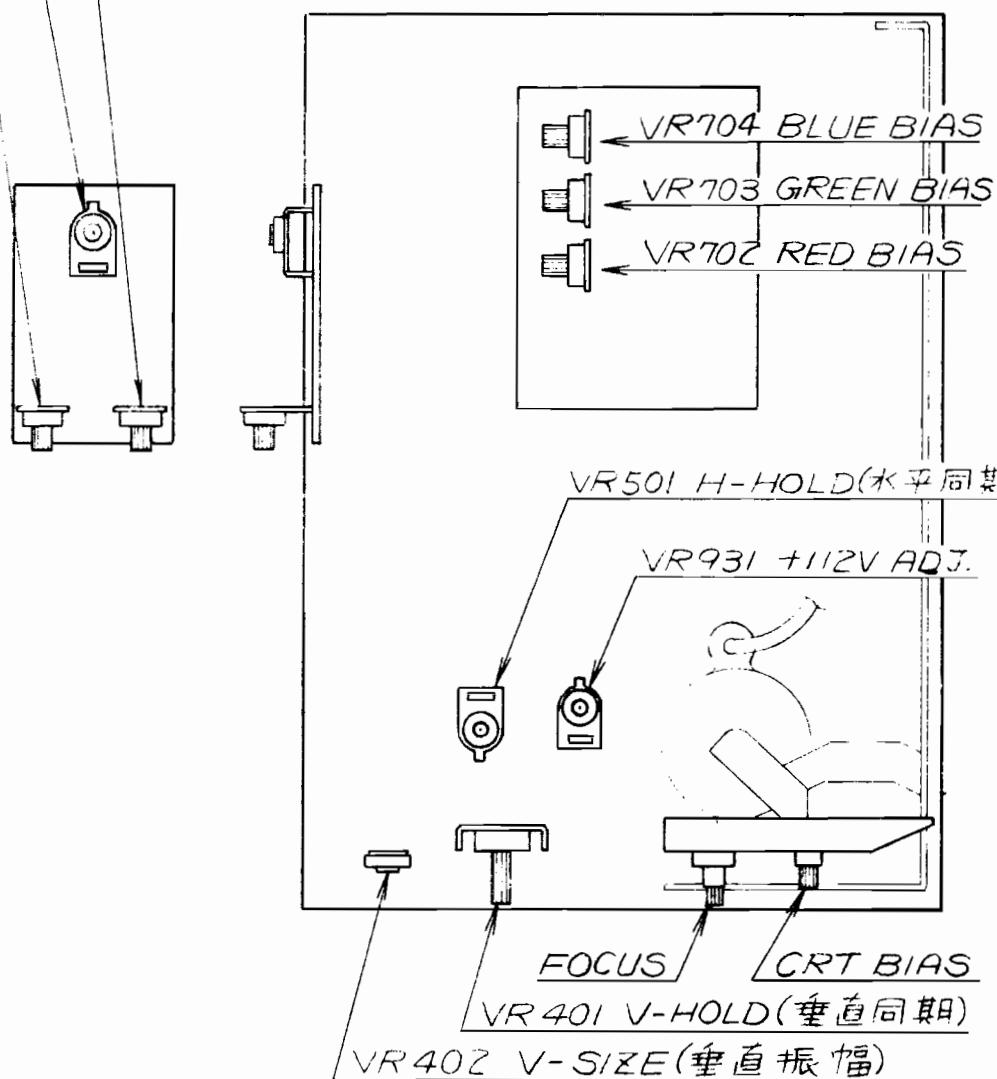
SUB-BRIGHT	R408	Monitor brightness
HORIZ WIDTH	L601 (CRT)	
VERT WIDTH	R517 (CRT)	
VERT POSITION	K502	Moves center to right
	K501	Center
	K503	Moves center to left
VERT HOLD	R515 (CRT)	
HORIZ HOLD	R616 (CRT)	
B+	R707	Adjustable from 90v to 105v
RED DRIVE	R807	
BLUE DRIVE	R809	
RED BIAS	R813	
GREEN BIAS	R814	
BLUE BIAS	R815	
SCREEN ADJUST	R824	Increases brightness and interacts with white balance. After white balance adjustments, the beam current setting (R301 dc voltage) must not exceed -7.0v.
FOCUS		Adjust each time brightness is altered.

カラー モニターの調整
TV VOLUME ADJUSTMENT INSTRUCTIONS

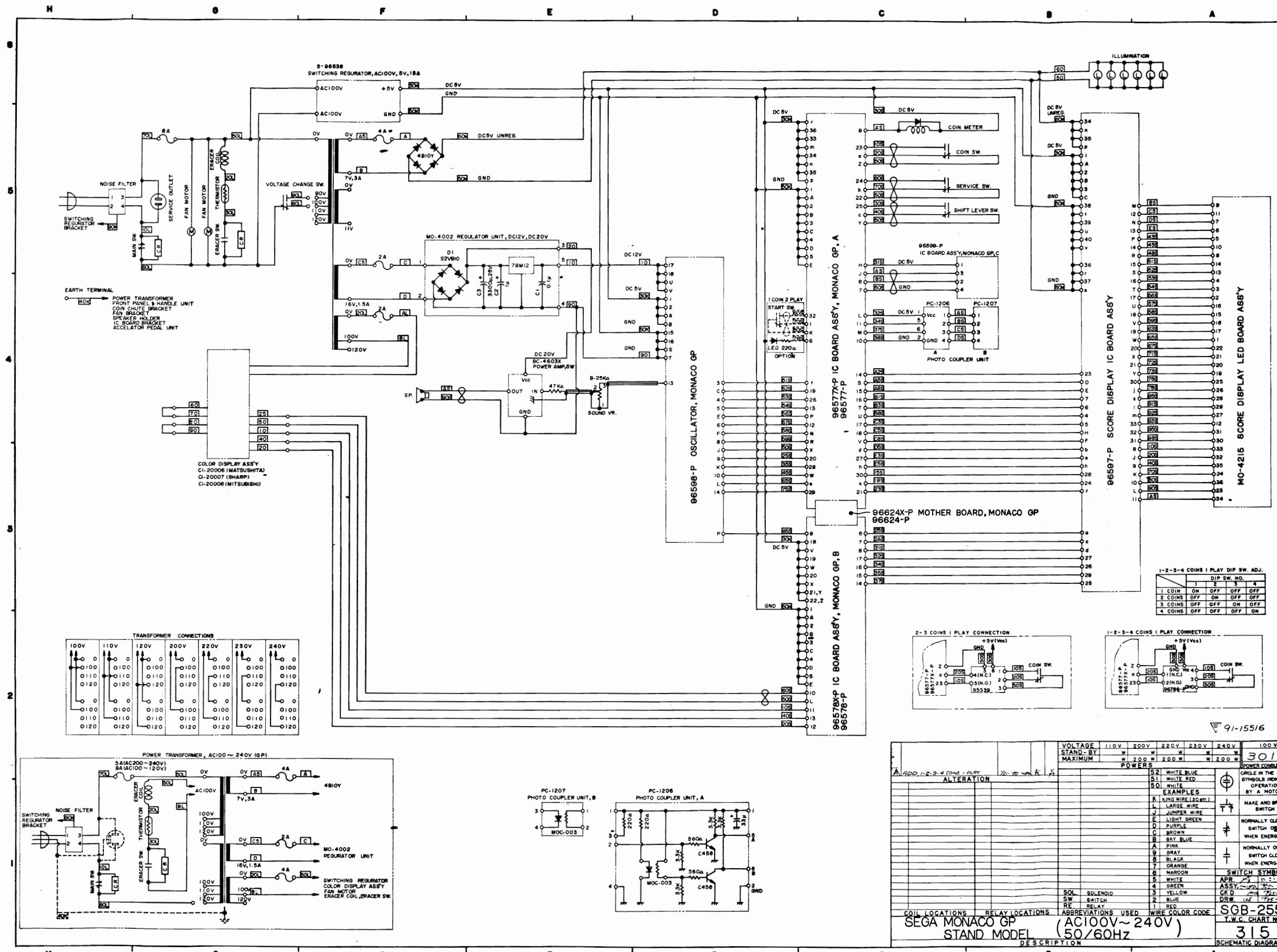
VR463 UPPER PINCUSHION CONTROL(上側糸巻歪補正)

VR461 BOTH SIDE PINCUSHION CONTROL(両側糸巻歪補正)

VR462 LOWER PINCUSHION CONTROL(下側糸巻歪補正)

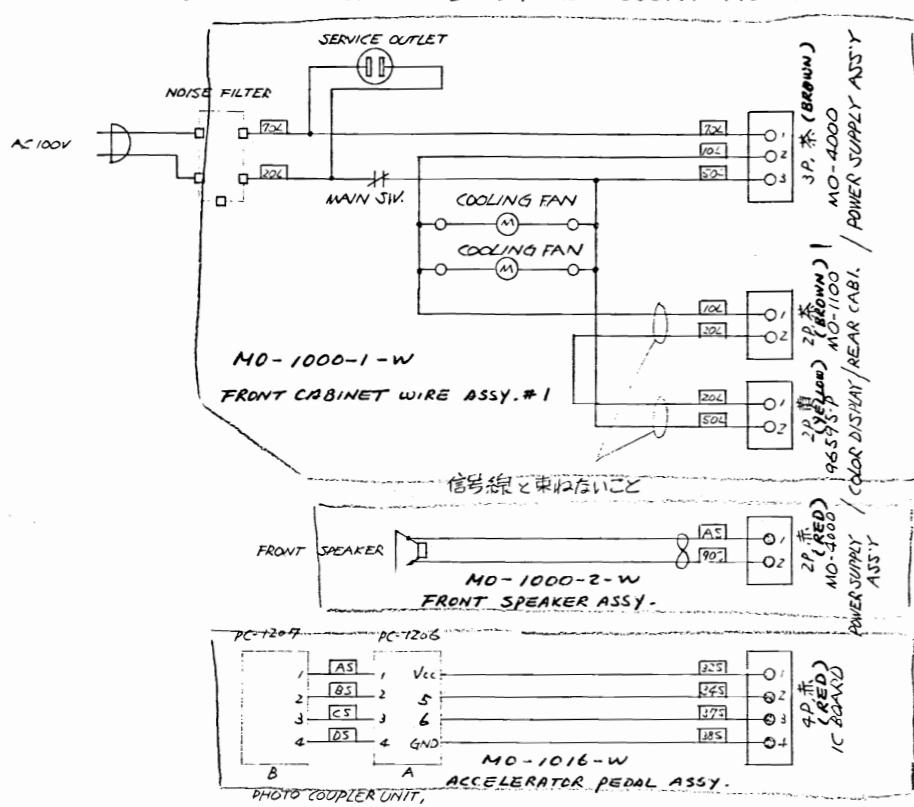


S-9659Z-P COLOR DISPLAY, 14H TYPE
(MITSUBISHI 919C049-3)

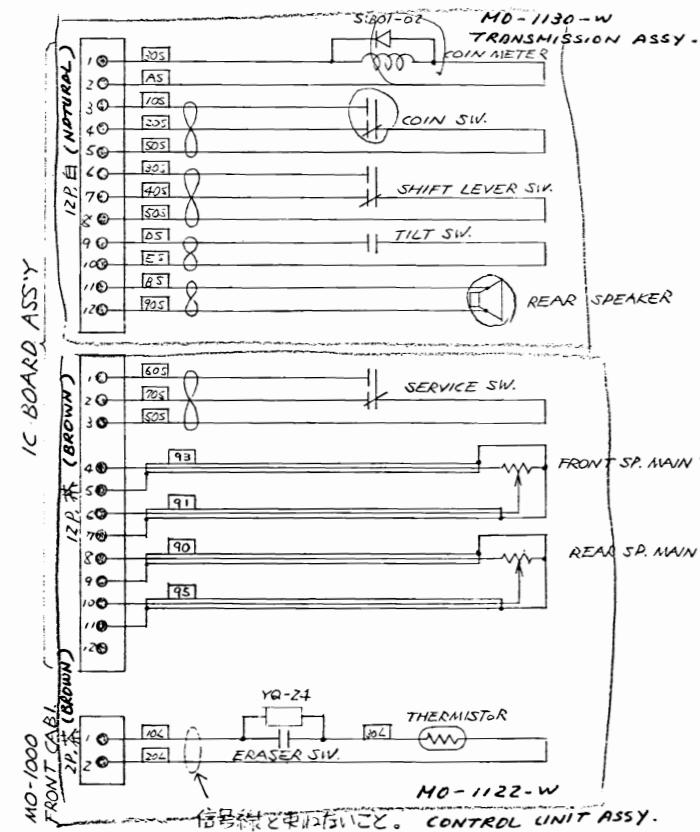


DESCRIPTION	VOLTAGE				POWER CONSUMPTION
	110V	200V	220V	230V	
STAND-BY	w	w	w	w	301 w
MAXIMUM	w	w	w	w	w
POWERS	200	200	200	200	200
A100 / 1-2-3-4 COINS 1 PLAY	1/2- 200	1/2- 200	1/2- 200	1/2- 200	1/2- 200
ALTERATION					
S2 WHITE BLUE					
S1 WHITE RED					
S0 WHITE					
EXAMPLES					
K KING WIRE (SOFT)					
L LARGE WIRE					
J JUMPER WIRE					
I GREEN					
O PURPLE					
C BROWN					
B SKY BLUE					
A PINK					
9 GRAY					
8 BLACK					
7 OPAQUE					
6 MAROON					
5 WHITE					
4 GREEN					
3 YELLOW					
2 BLUE					
1 RED					
SOL SOLENOID					
SW SWITCH					
RE RELAY					
COLL LOCATIONS					
RELAY LOCATIONS					
ABBREVIATIONS USED					
WIRE COLOR CODE					
SGB-2553					
T.W.C. CHART NO.					
315					
SCHEMATIC DIAGRAM NO.					

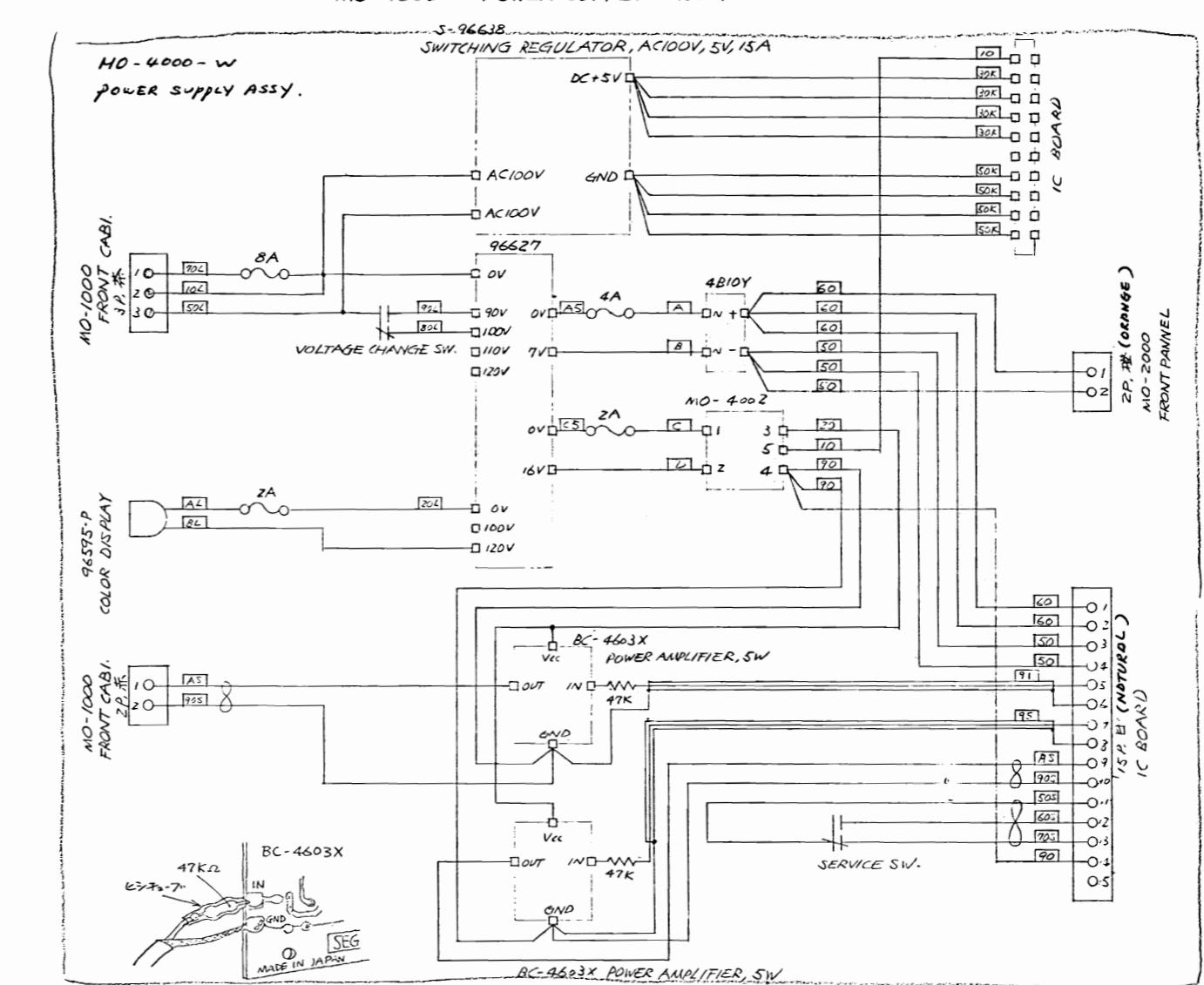
MO-1000 FRONT CABINET ACCESSORY ASS'Y

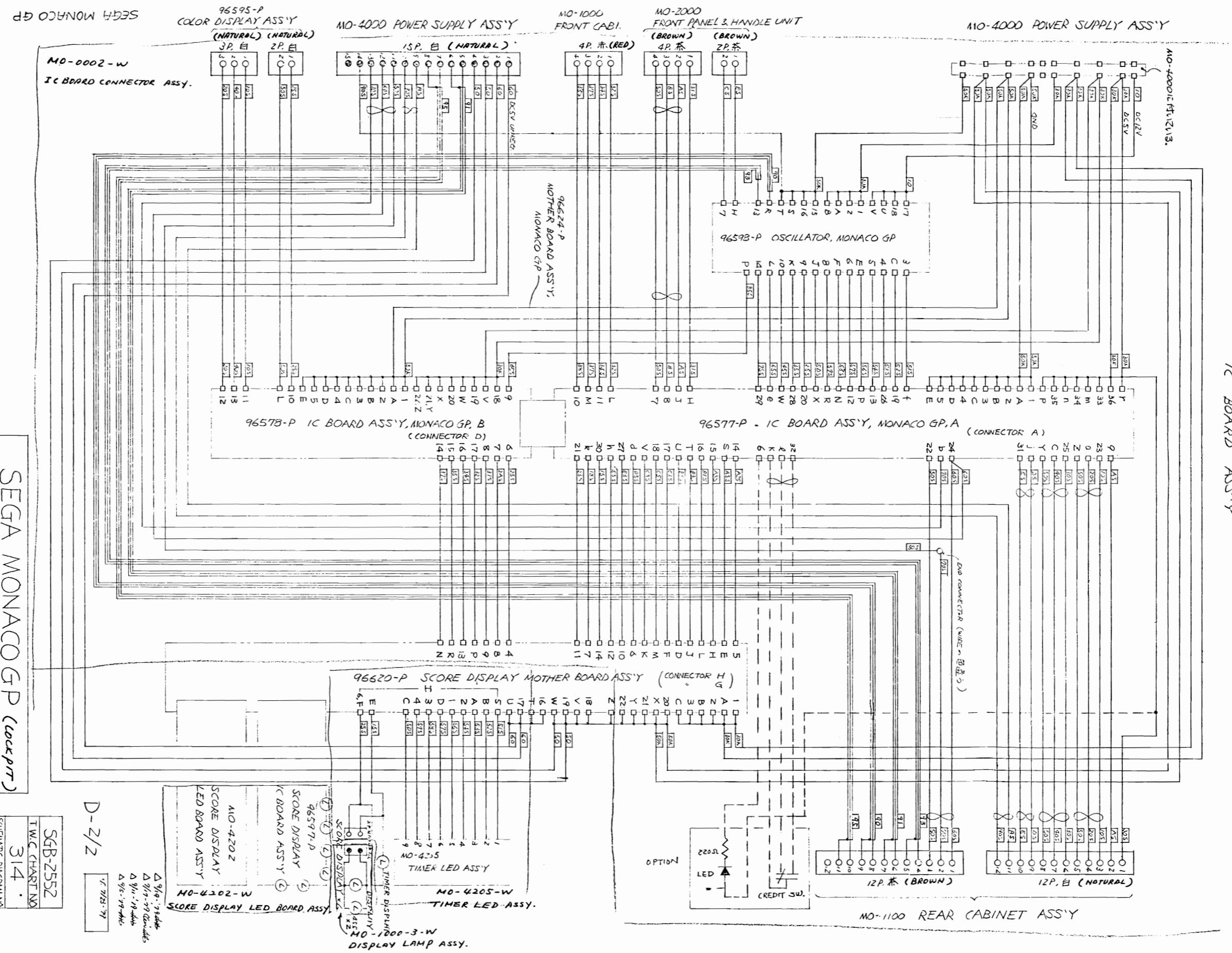


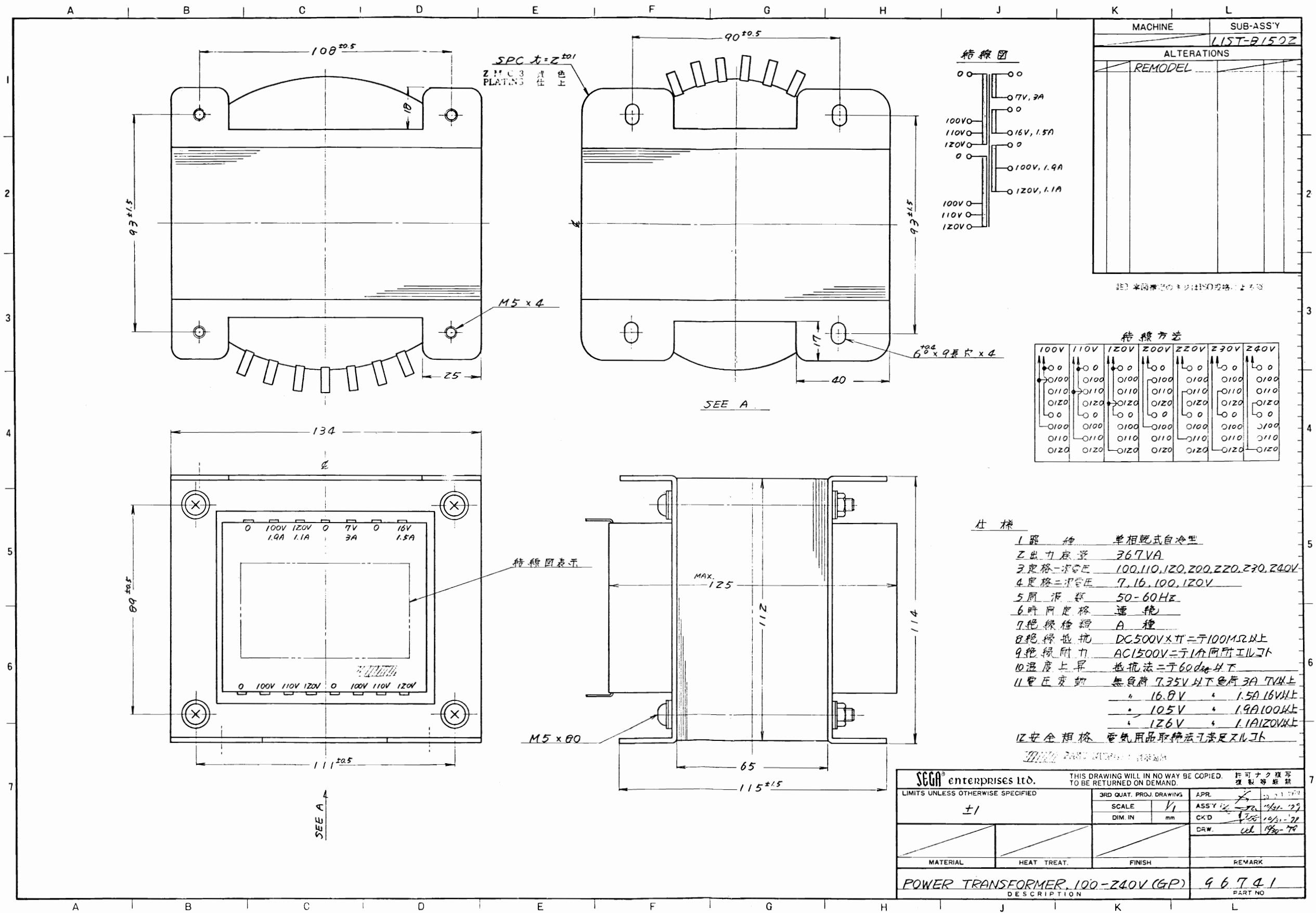
MO-1100 REAR CABINET ACCESSORY ASS'Y



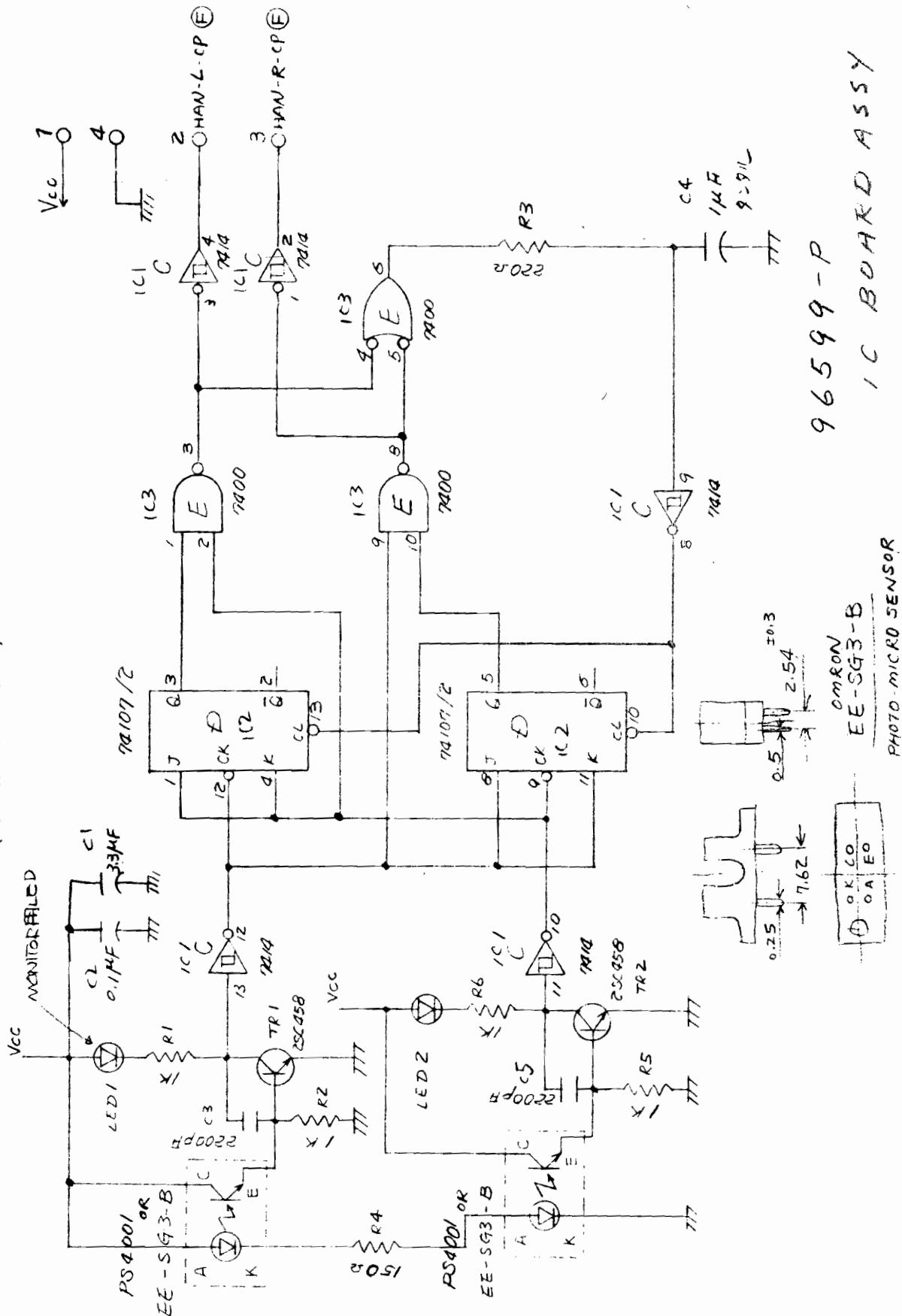
MO-4000 POWER SUPPLY ASS'Y

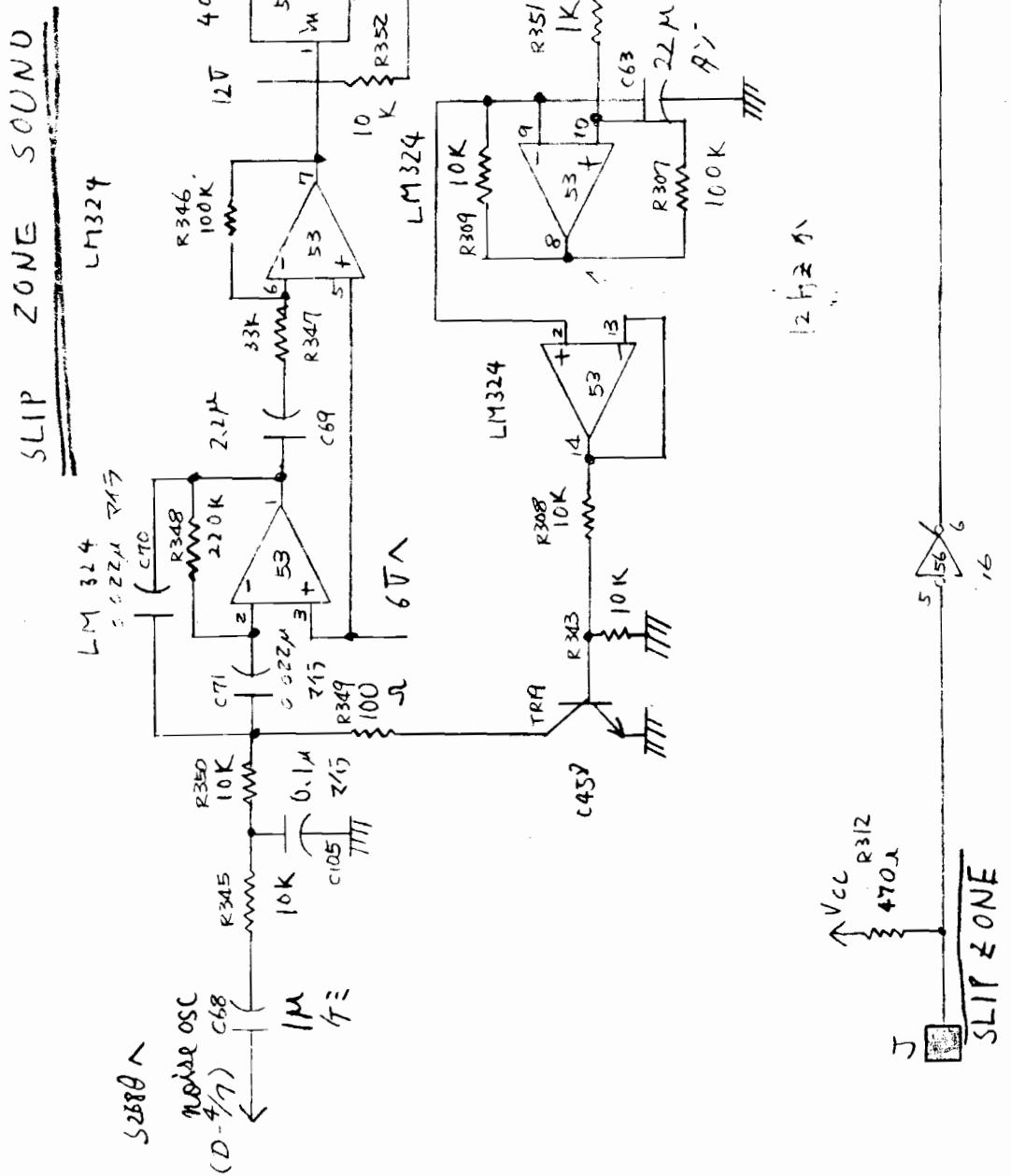






HANDLE, LOGIC DIAGRAM (ACCELERATOR BOARD)

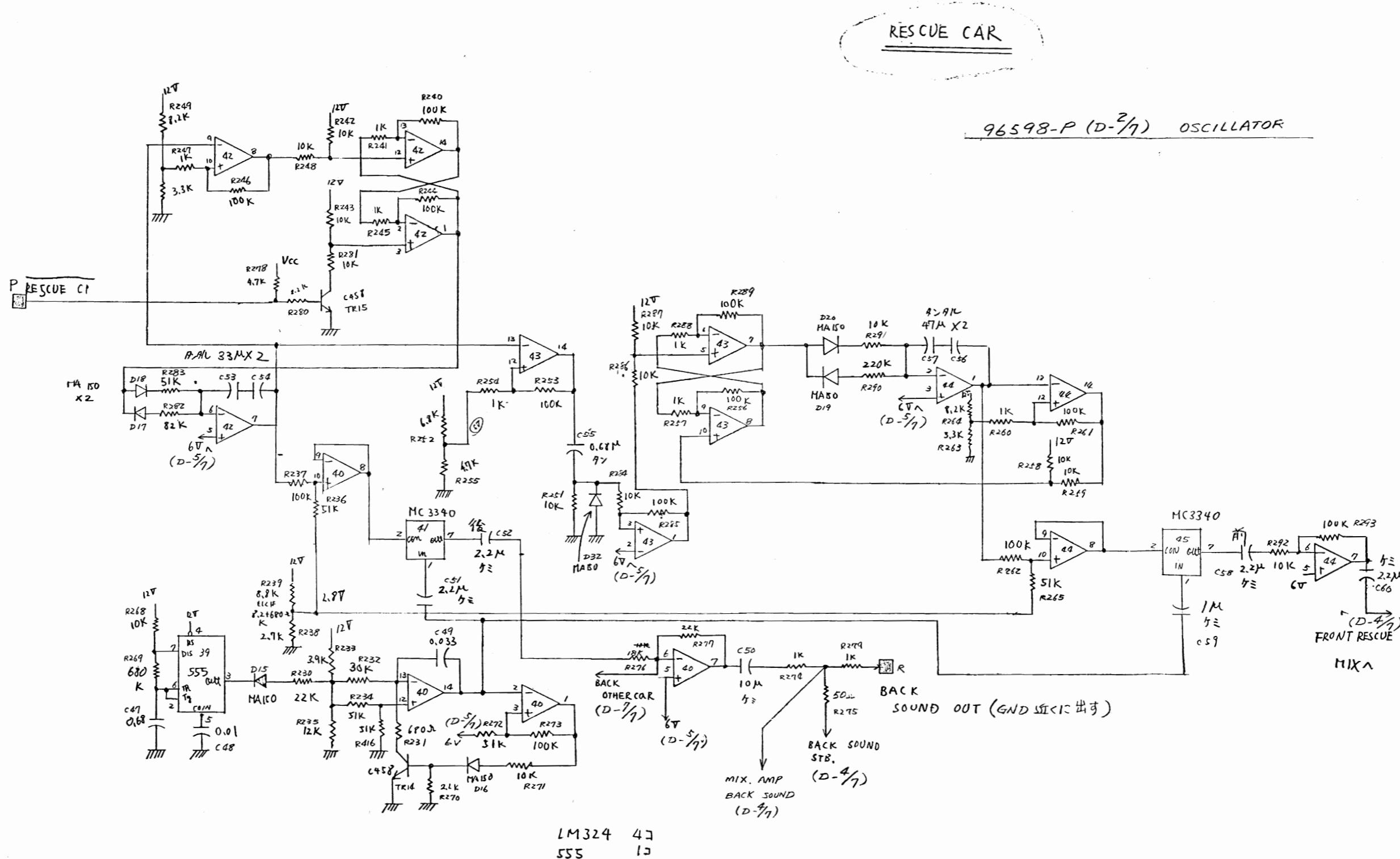




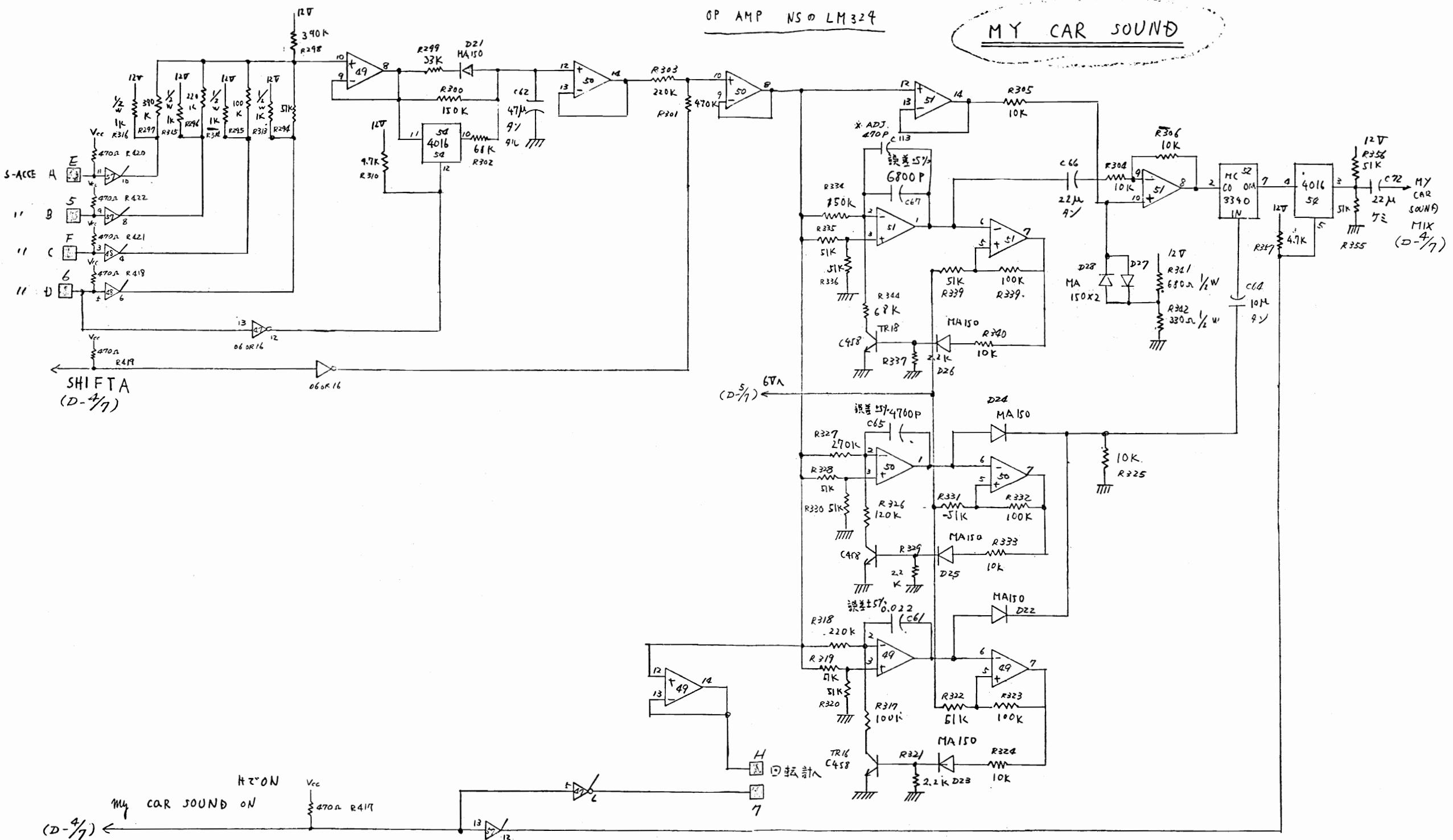
96598-P (D-1/2) OSCILLATOR

⑤ - MONACO GP

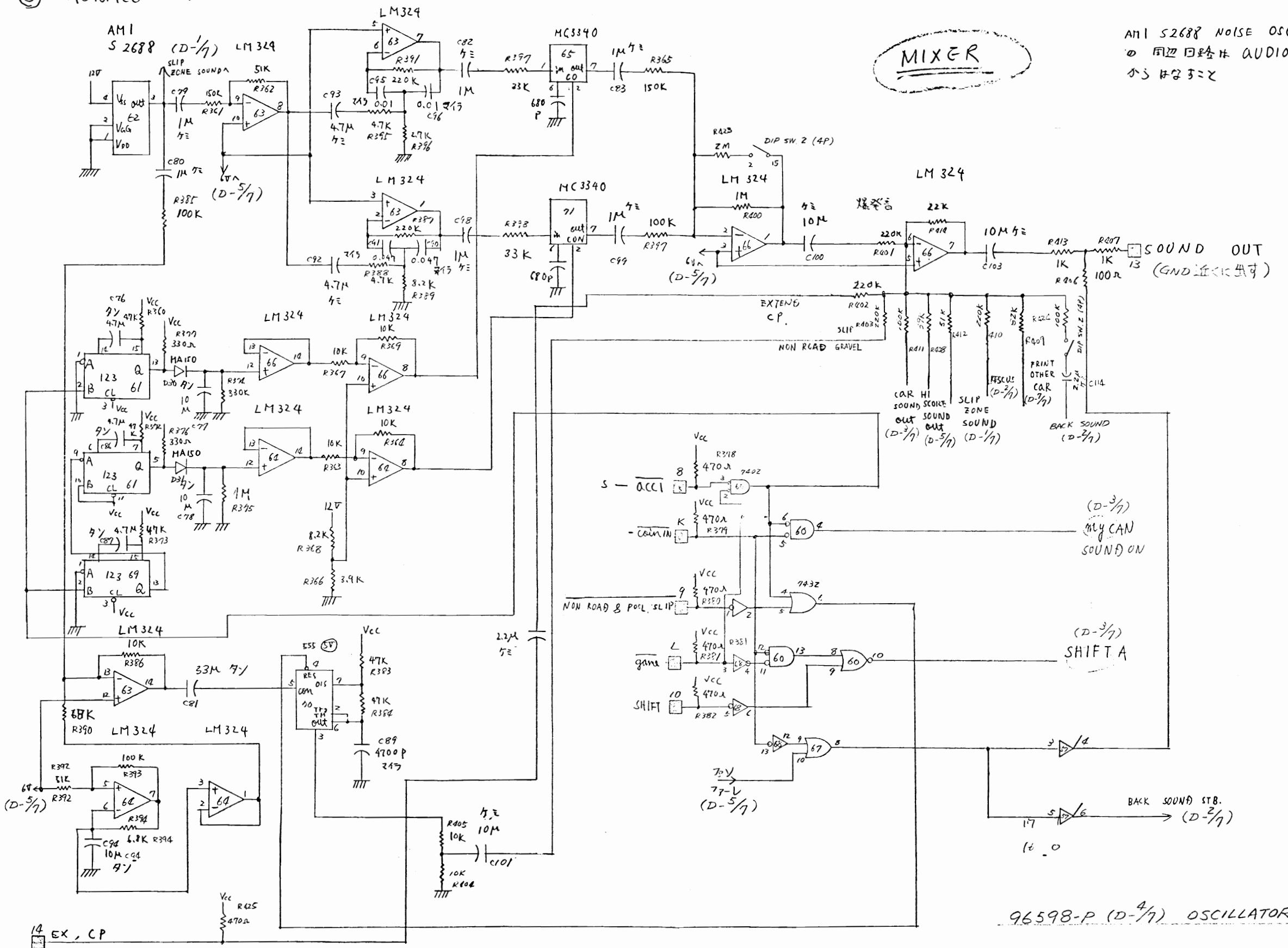
OP AMP LM324



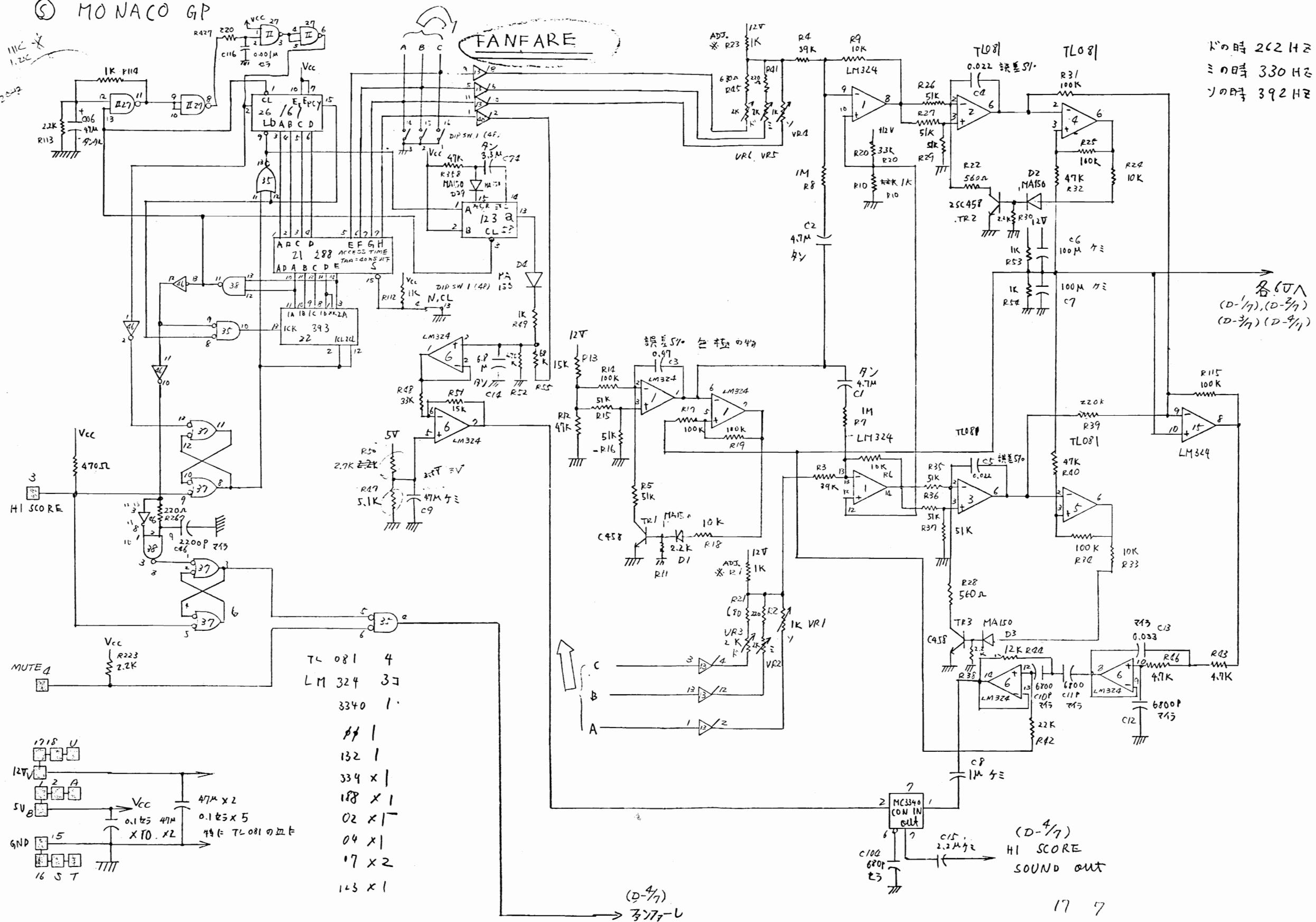
S MONACO GP



(S) - MONACO GP

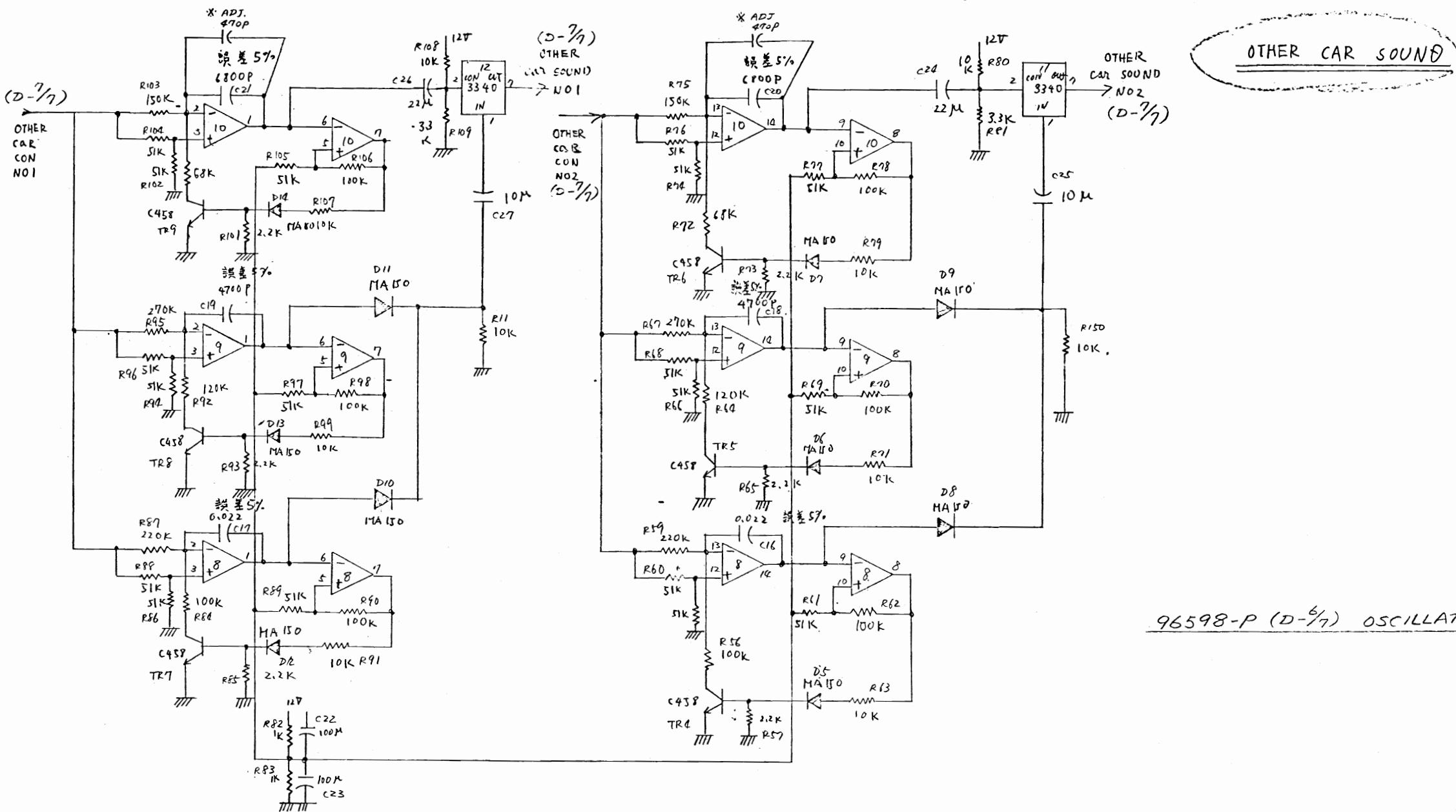


⑤ MONACO GP



⑤ - MONACO GP

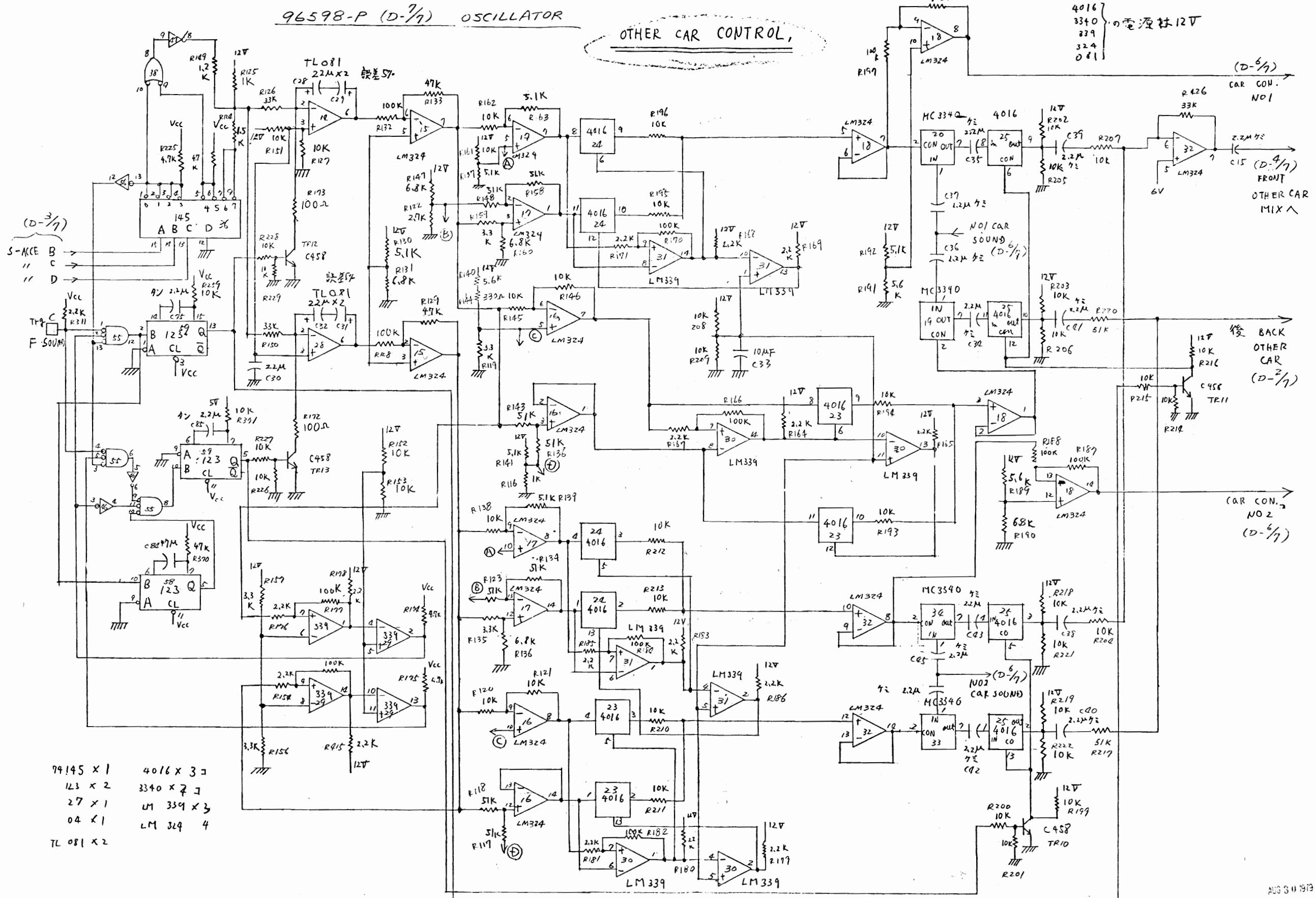
OP AMP IC LM324 NS製



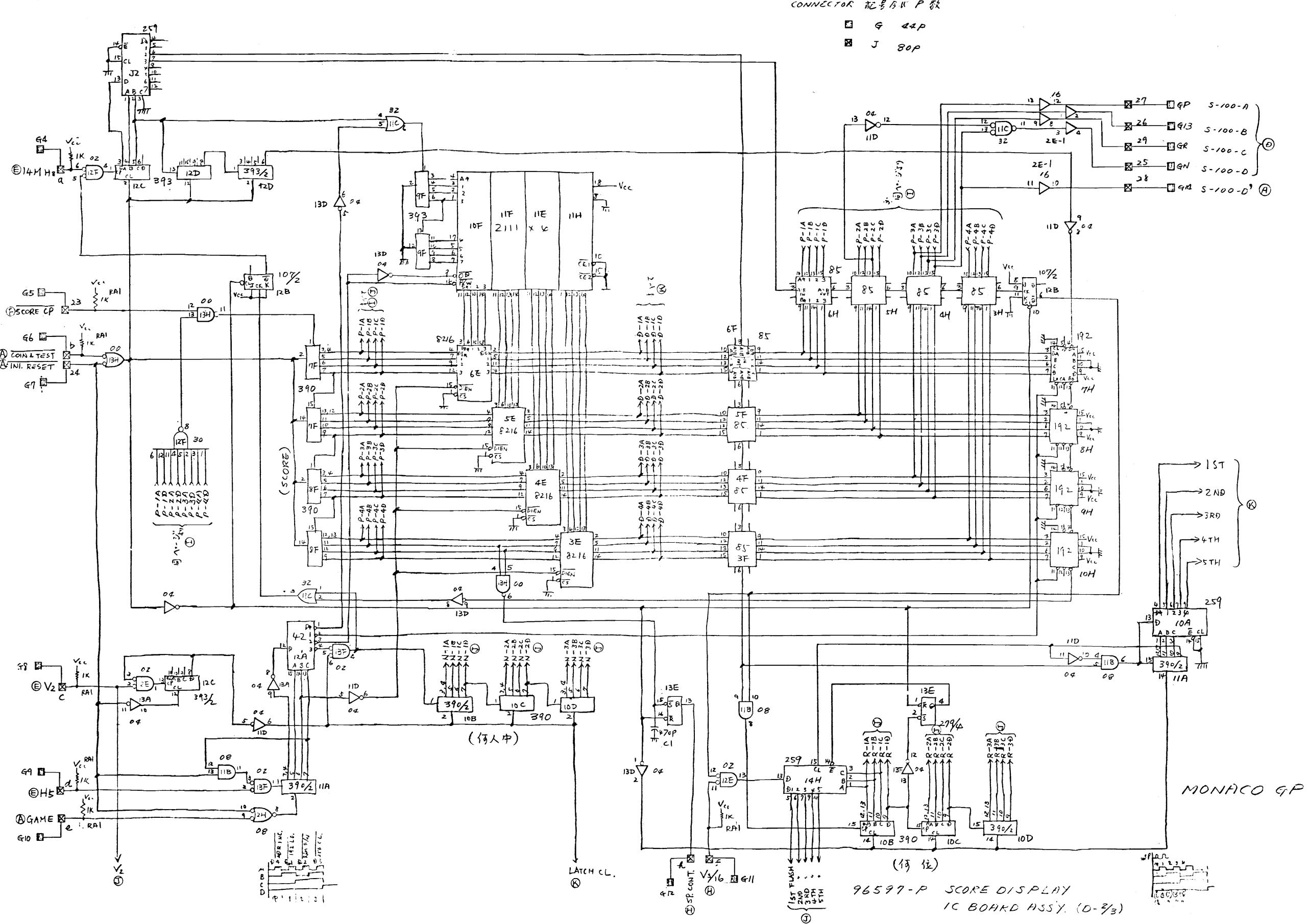
LM 324 x 3

MC 3340 x 2

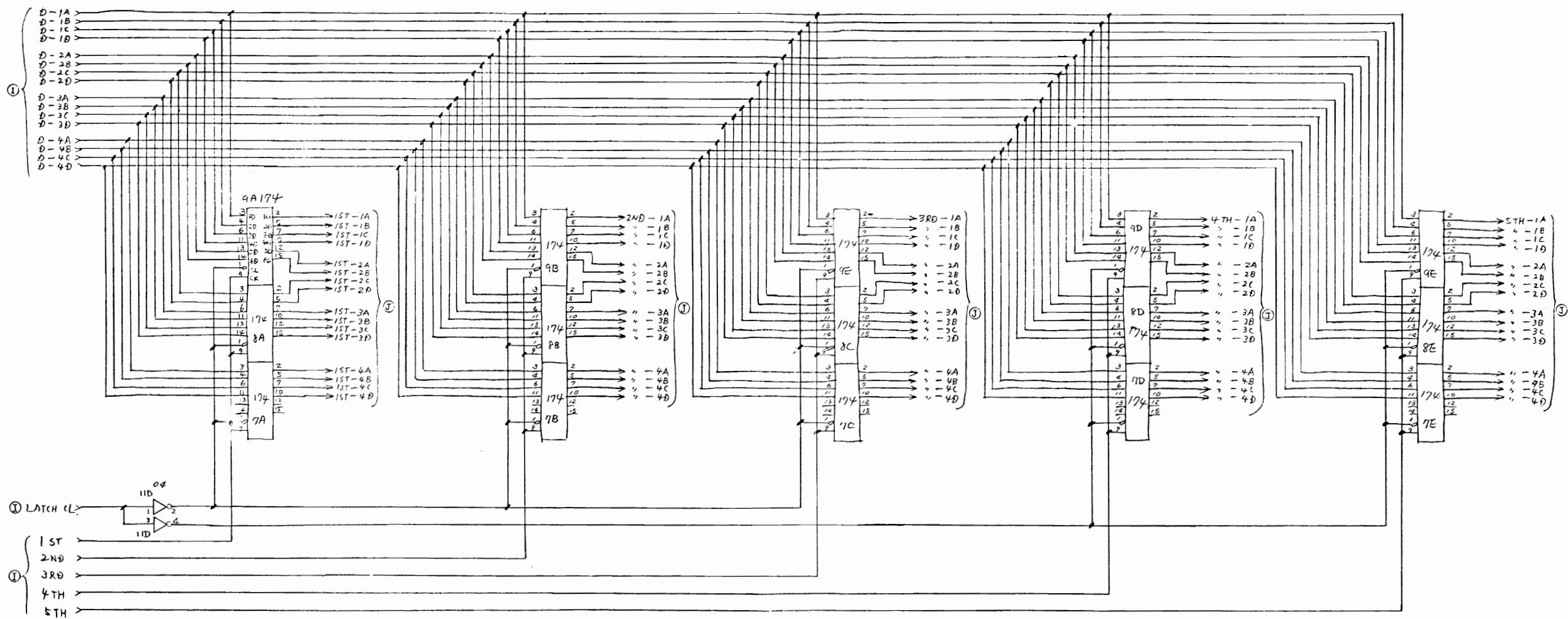
S-MONACO GP



(I)



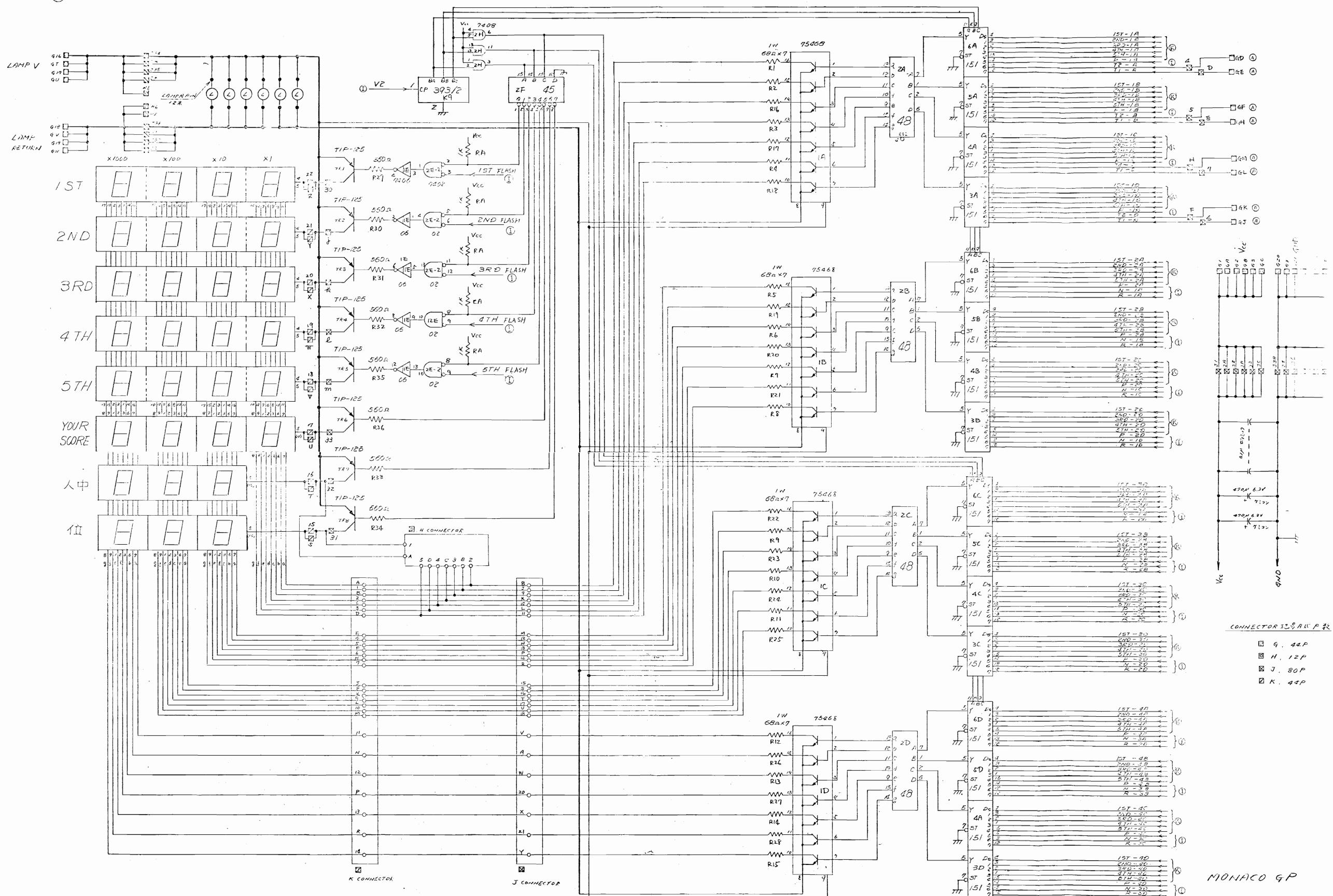
K



96597-P SCORE DISPLAY 1C BOARD ASS'Y.(D-3/3)

MONACO GF

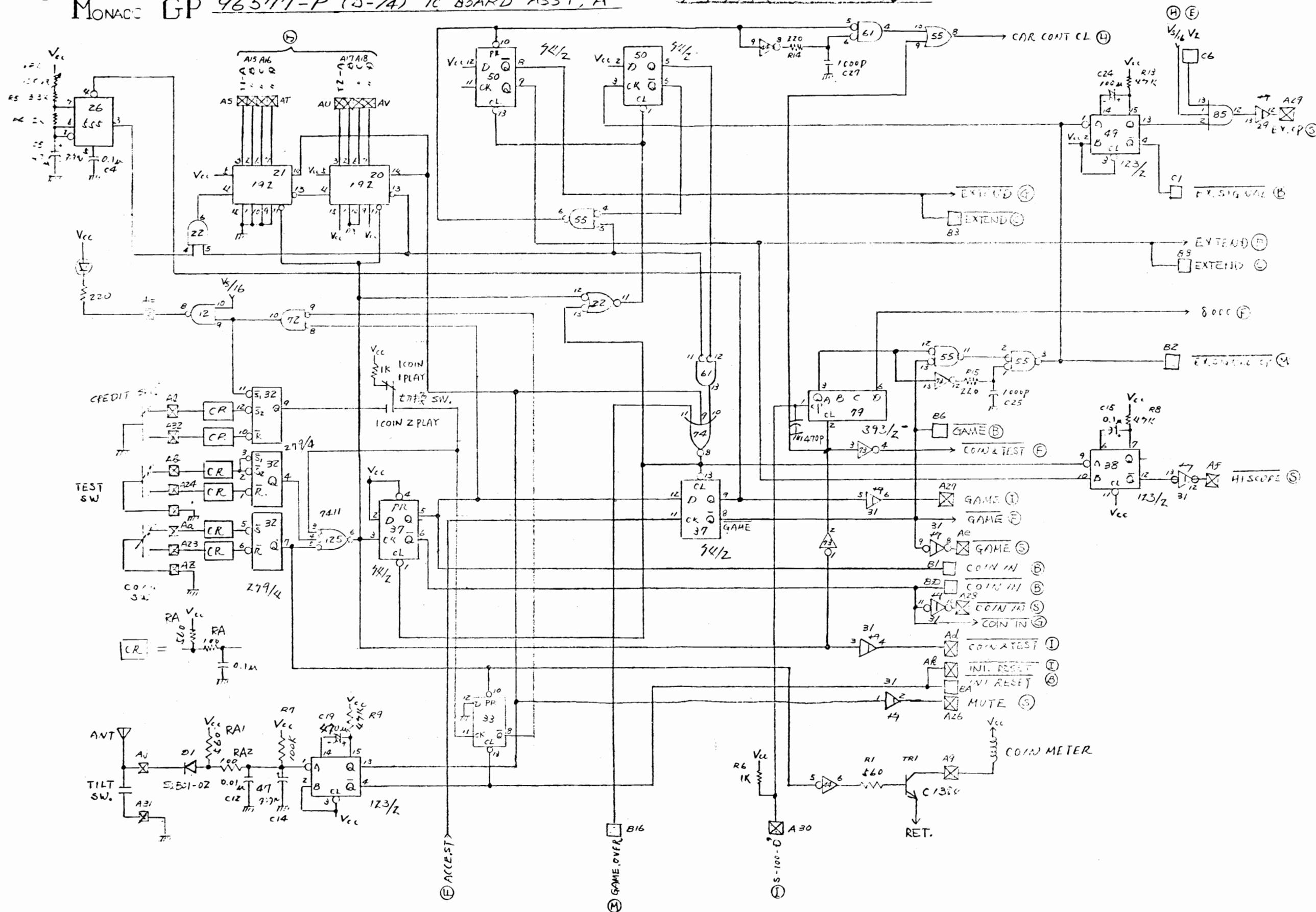
(J)

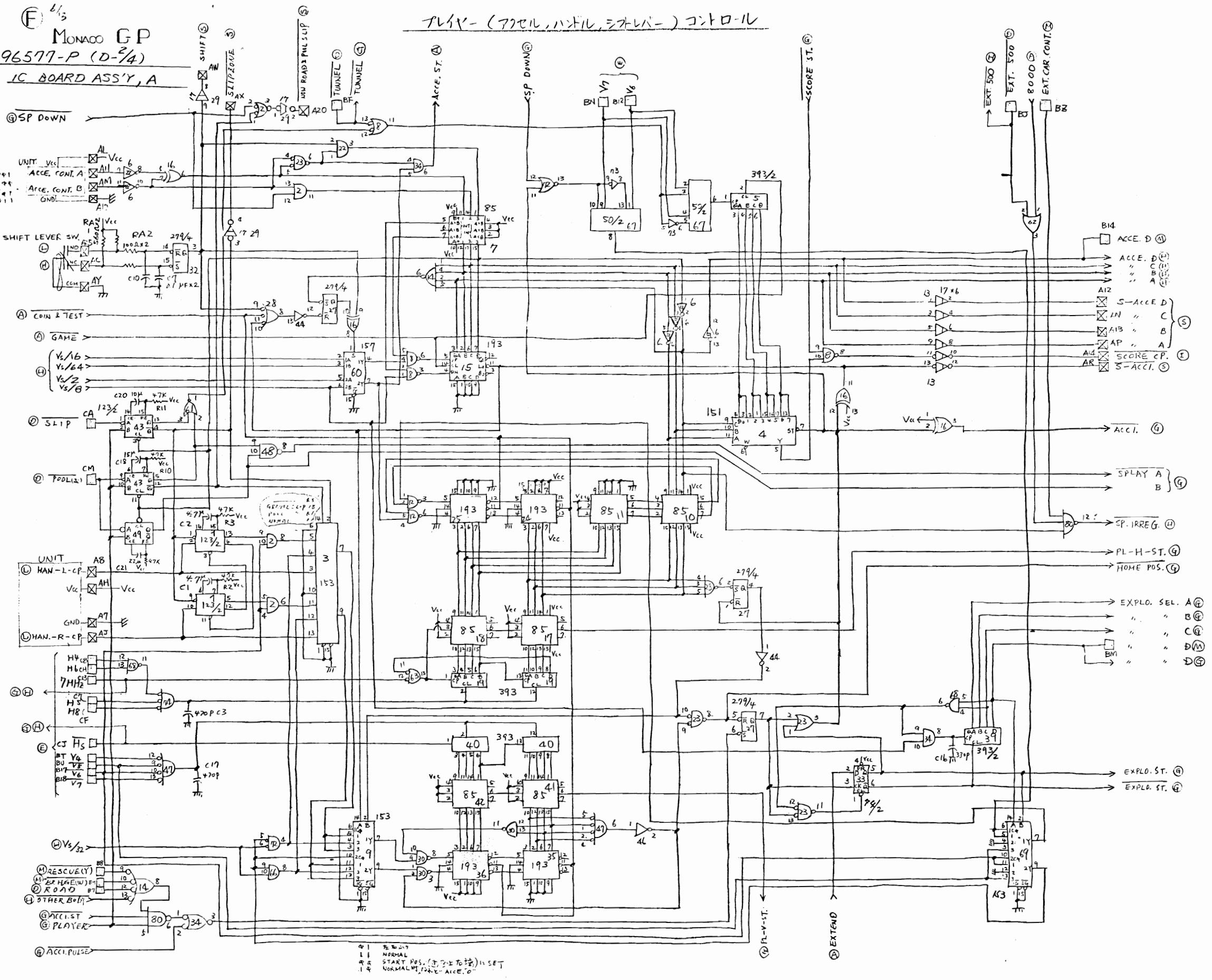


11

MONACO GP 96577-P (D-1/4) IC BOARD ASS'Y, A

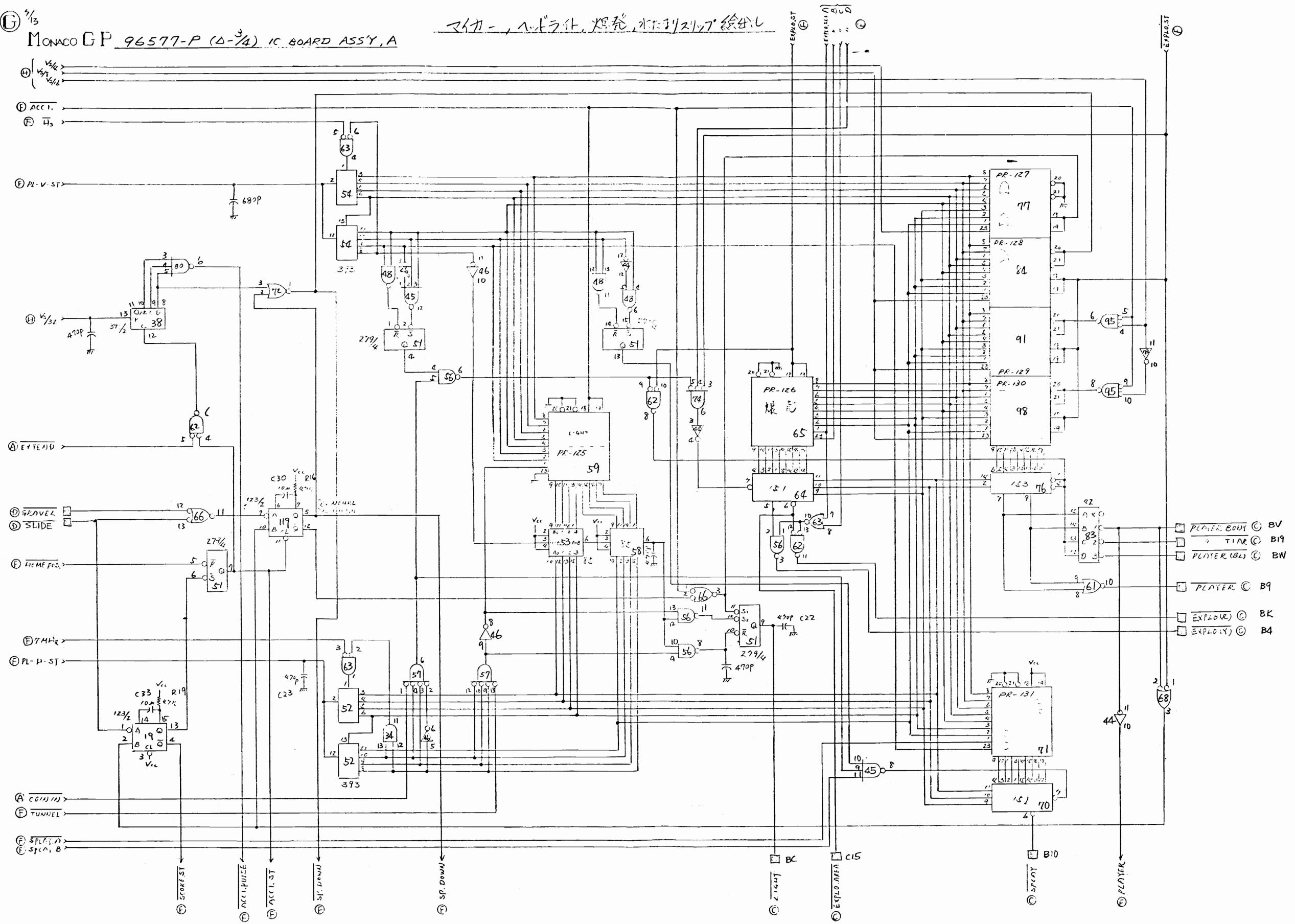
29-トライアル・コントロール





(G) $\frac{1}{13}$
MONACO GP 96577-P ($\Delta-\frac{3}{4}$) IC BOARD ASS'Y, A

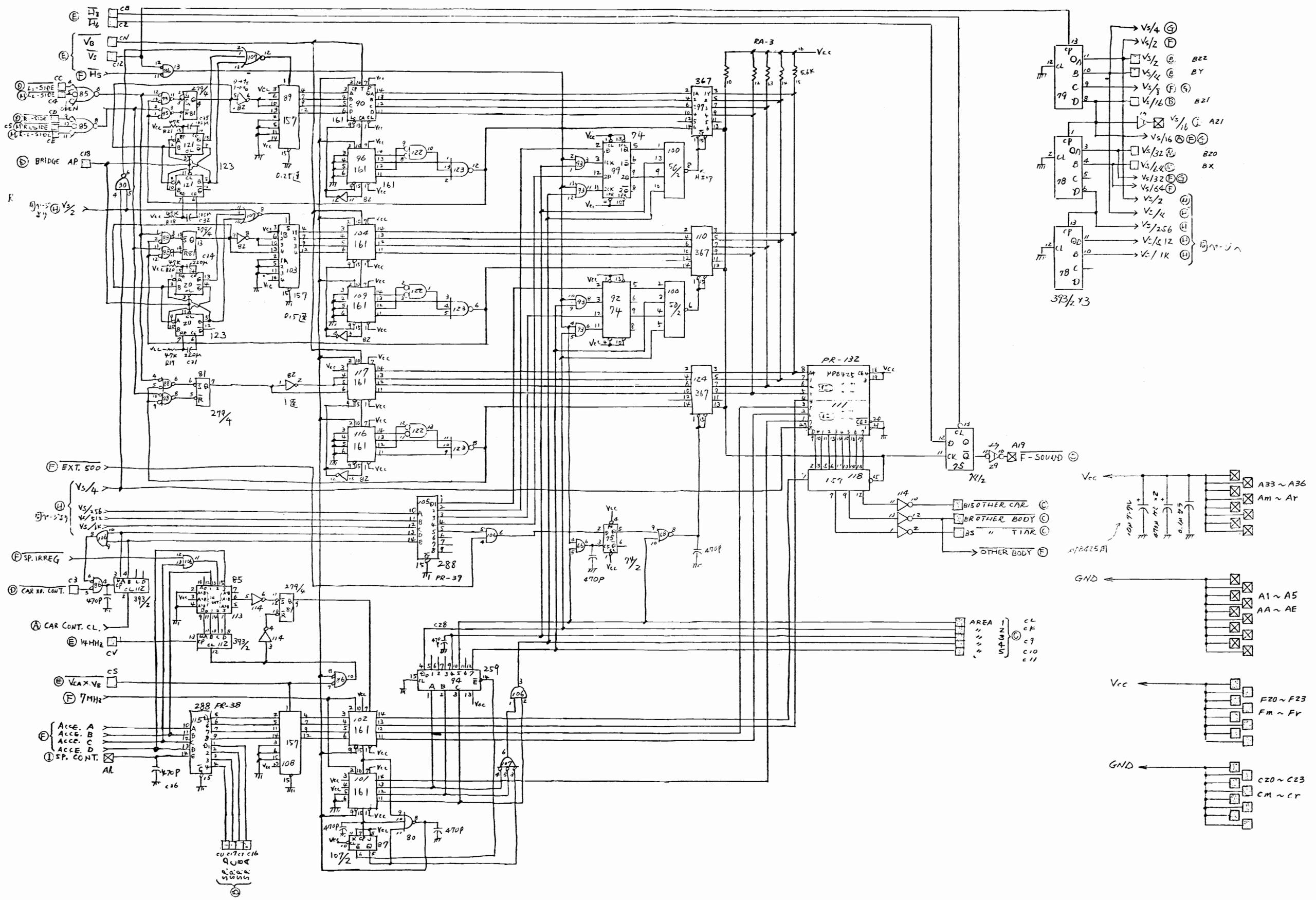
マイカー、ハイブリッド、燃料、水素、ガソリン、電気



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MONACO GP 96577-P (D-4/4) IC BOARD ASS'Y, A

OTHER CAR の EASILY & CONTROL



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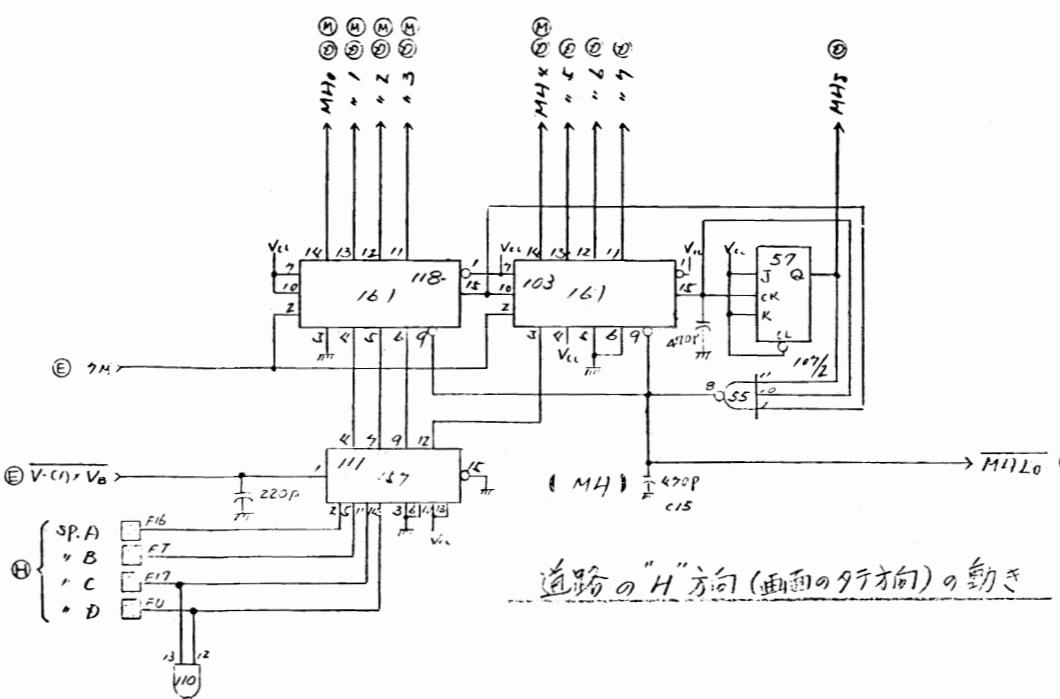
MONACO GP

96578-P (D-1/5) IC BOARD ASSY, B

Diagram illustrating the connections for the IC BOARD ASSY, B. The circuit includes:

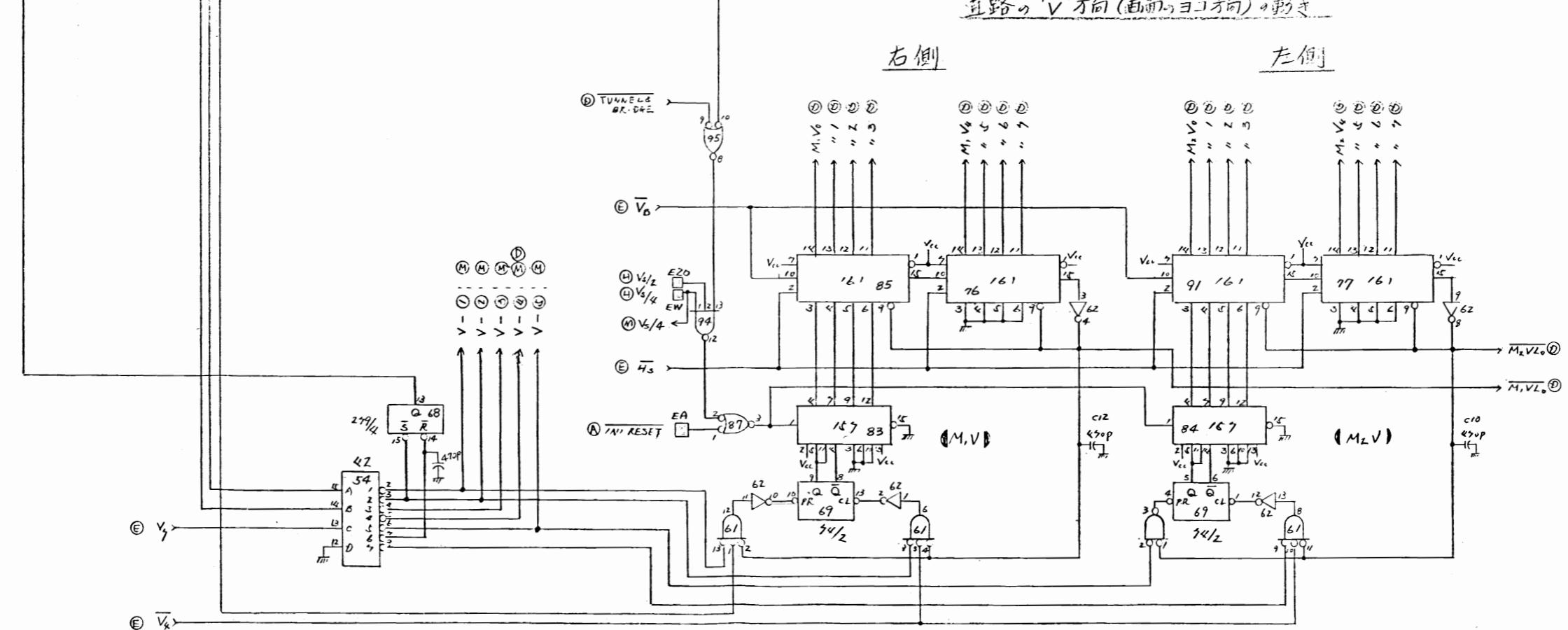
- ED (Edge Detect):** A logic gate (74LS04) takes inputs from **(④) COIN IN** and **(⑤) COIN IN**, with its output connected to the **V₁** pin of IC1.
- Power:** **V_{cc}** is connected to the **V₁** pin of IC1 and the **V₁** pin of IC2. **V_{ss}** is connected to the **V₂** pin of IC1 and the **V₂** pin of IC2.
- IC1 (63):** An 8-pin integrated circuit. Its **V₁** pin receives **V_{cc}**. Its **V₂** pin receives **V_{ss}**. Its **V₃** pin is connected to **START 64**. Its **V₄** pin is connected to **GAME OVER**. Its **V₅** pin is connected to **DEPOSIT COIN**. Its **V₆** pin is connected to **L₁** (pin 10). Its **V₇** pin is connected to **L₂** (pin 11). Its **V₈** pin is connected to **L₃** (pin 12).
- IC2 (63):** An 8-pin integrated circuit. Its **V₁** pin receives **V_{cc}**. Its **V₂** pin receives **V_{ss}**. Its **V₃** pin is connected to **L₄** (pin 10). Its **V₄** pin is connected to **L₅** (pin 11). Its **V₅** pin is connected to **L₆** (pin 12). Its **V₆** pin is connected to **L₇** (pin 13). Its **V₇** pin is connected to **L₈** (pin 14). Its **V₈** pin is connected to **L₉** (pin 15).
- External Components:** Resistors R1-R8, capacitors C1-C4, and diodes D1-D4 are shown connecting various pins of IC1 and IC2 to ground or power.
- Text Labels:** "文字の表示" (Text Display) is written near the top right. "ET. A GAME OVER" and "COIN & START" are labeled at the bottom right.

文字の表示



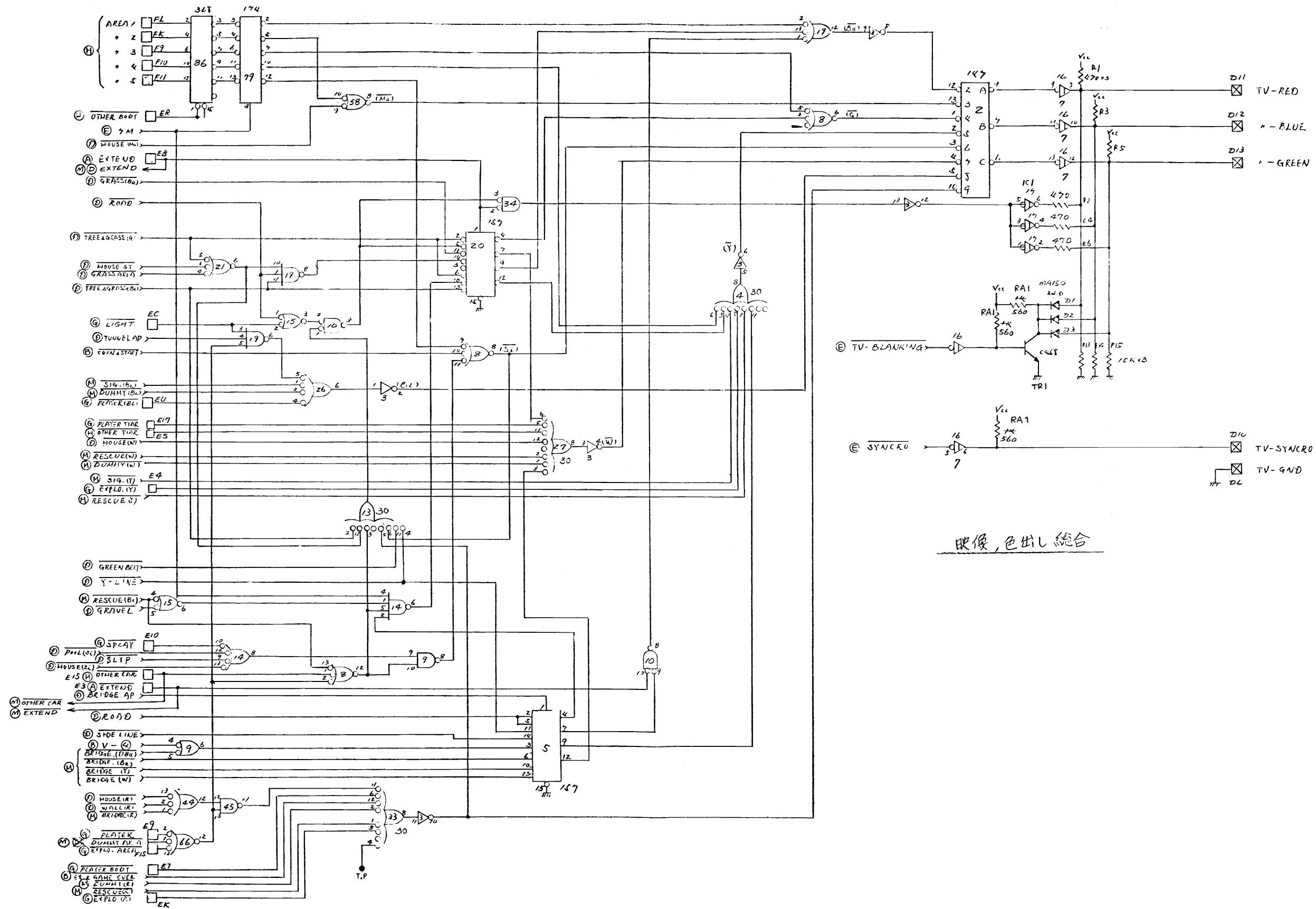
道路の“H”方向(画面のタテ方向)の動き

道路の“V”方向(画面)の方向)の動き



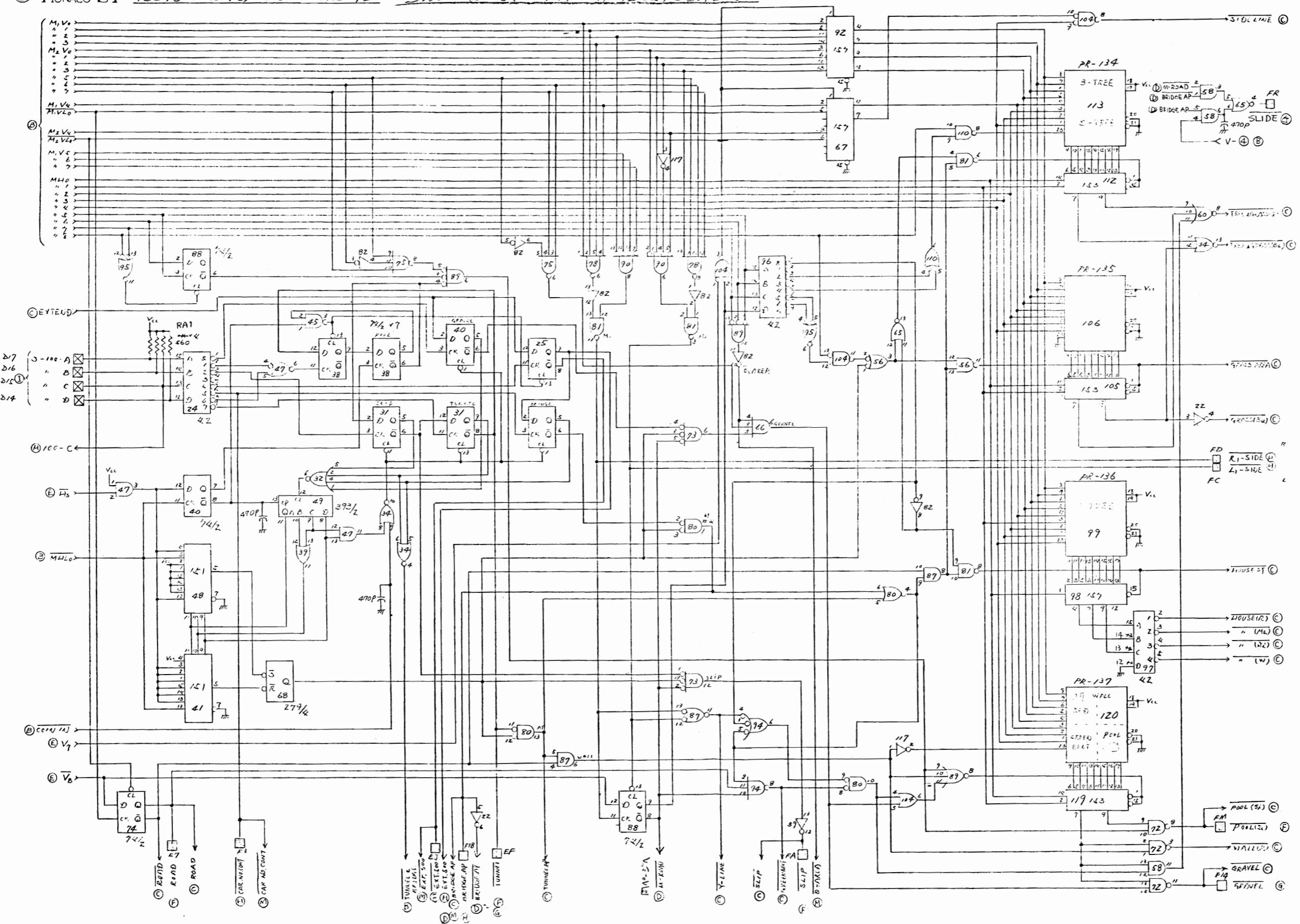
3
13

McNAUL GP 96578-P (D-2/5) IC BOARD ASS'Y, B



① MONACO GP 96578-P (D-3/5) IC BOARD ASSY, B

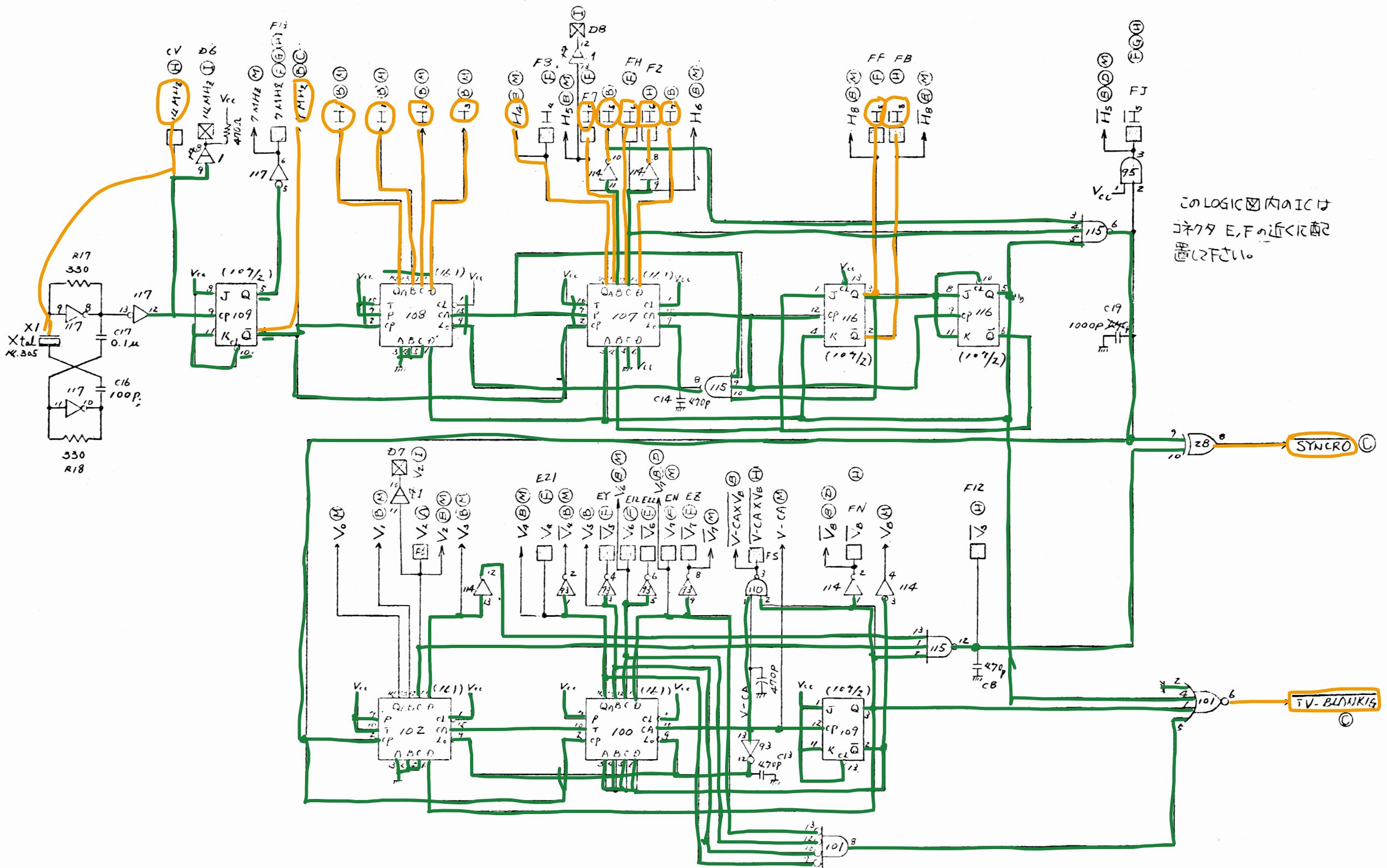
道路上の絵出し(トネル、橋、水路等、etc)とコントロール



(E) 5/3

MONACO GP 96578-P (D-1/5) IC BOARD ASS'Y, B

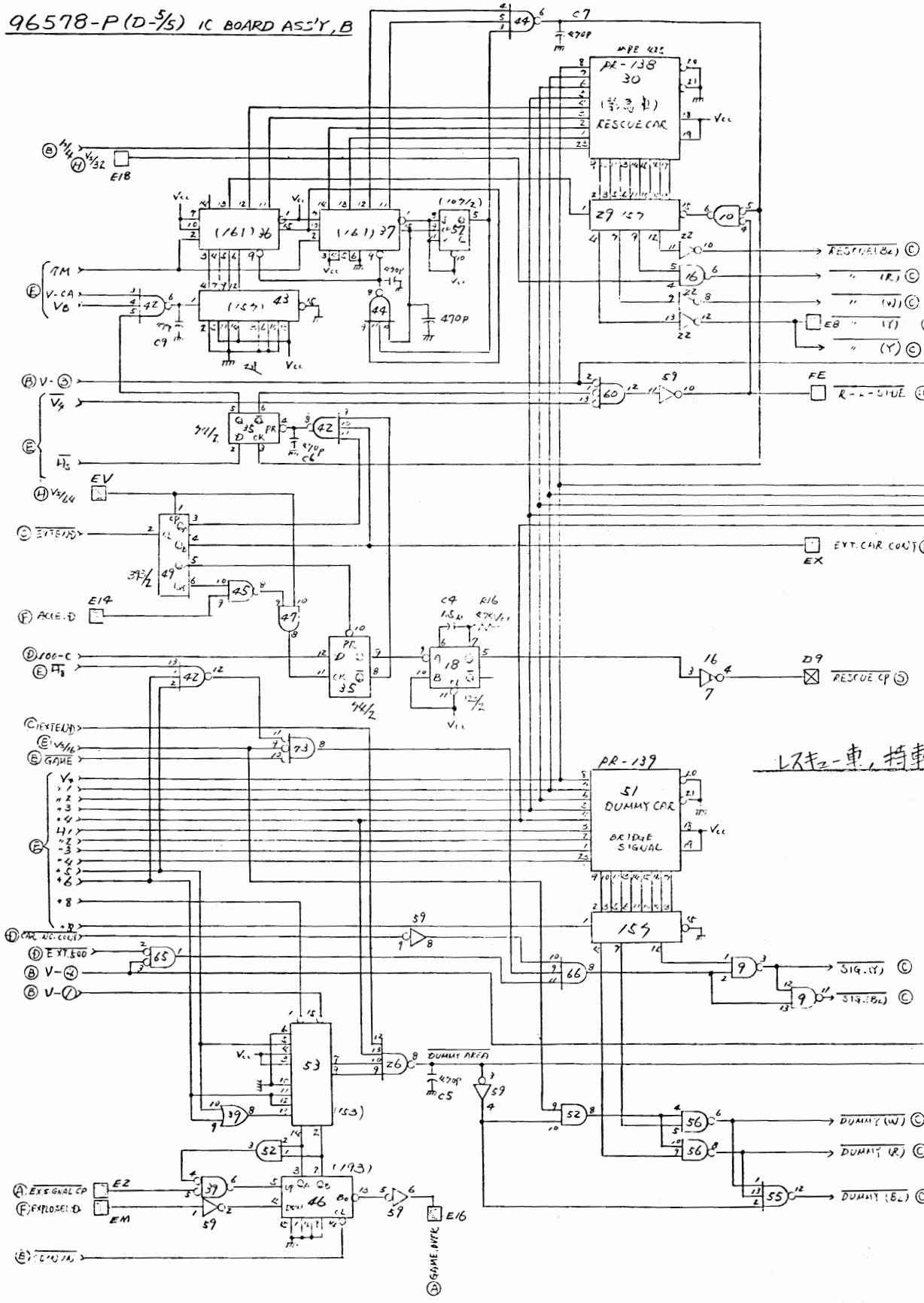
同期信号



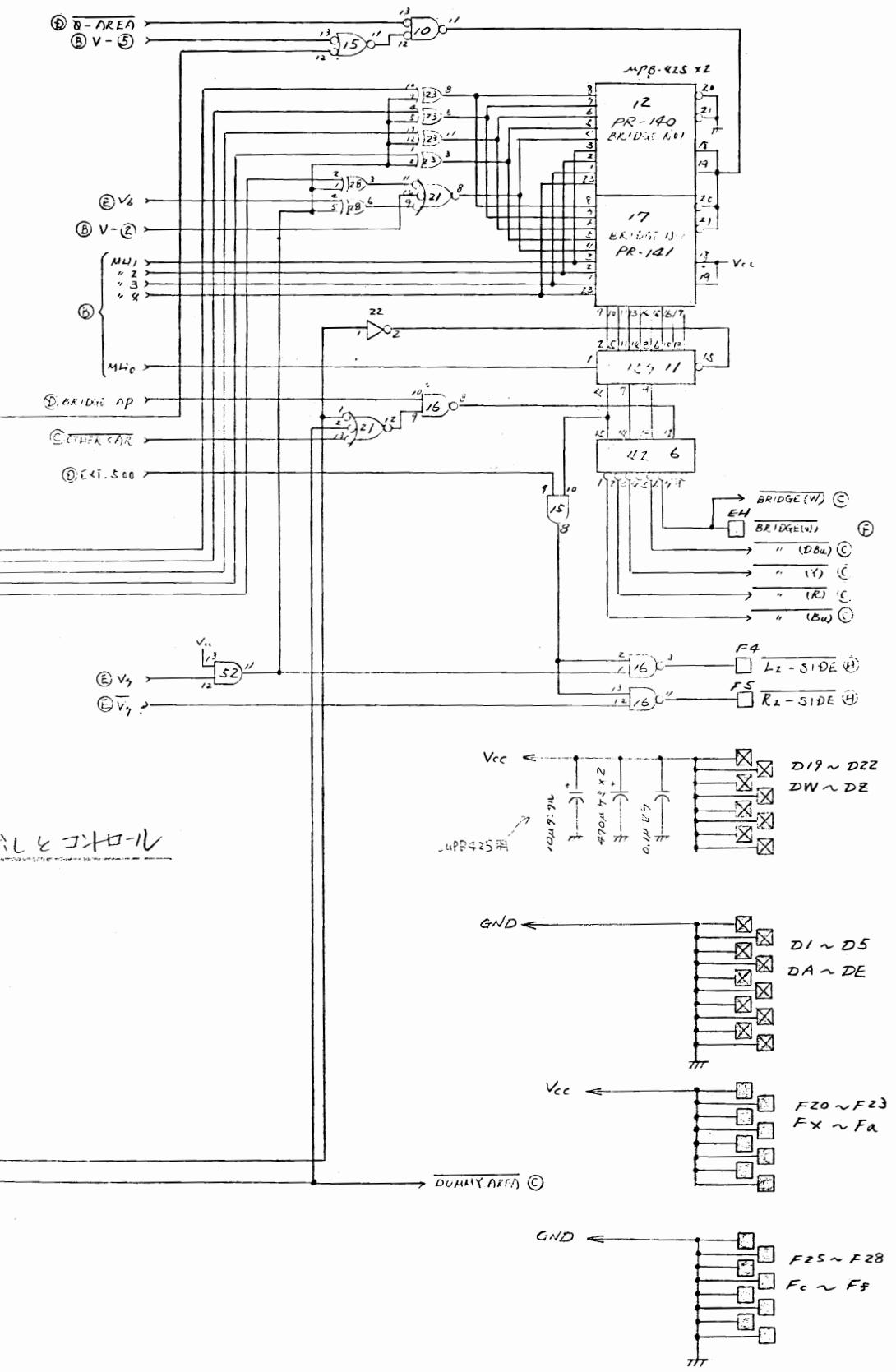
13/13

MONACO GP

96578-P(D-5/5) IC BOARD ASS'Y, B



レスキュー車、持車、橋の絵出しとコロニー



5/3

MONACO GP 96578-P (D-1/5) IC BOARD ASS'Y, B

同期信号

