

# **MONACO GP™**

MANUFACTURED BY

**Gremlin®/SEGA®**

**MANUAL PART NO. 420·0358**

## **OWNER'S MANUAL**

### 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.

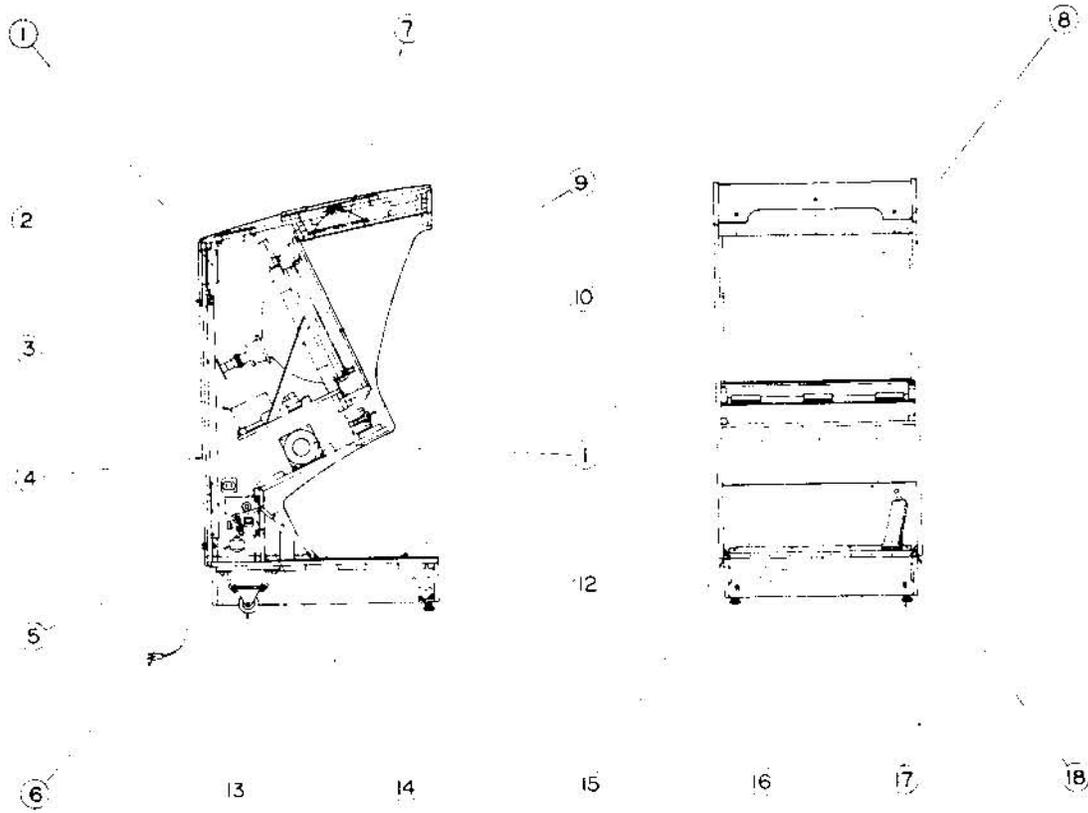
NOTE: On the sound board (#96598) there are 7 trim pots: These are for adjusting the FANFARE sound. They are pre-set by the factory. Also on this board are 2 switches, SW1 and SW2. SW1 should be set so that positions 1,2, and 3 are OFF. Position 4 should be ON. Switch SW2 should be set to positions 1 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

FRONT CABINET ACCESSORY ASSY

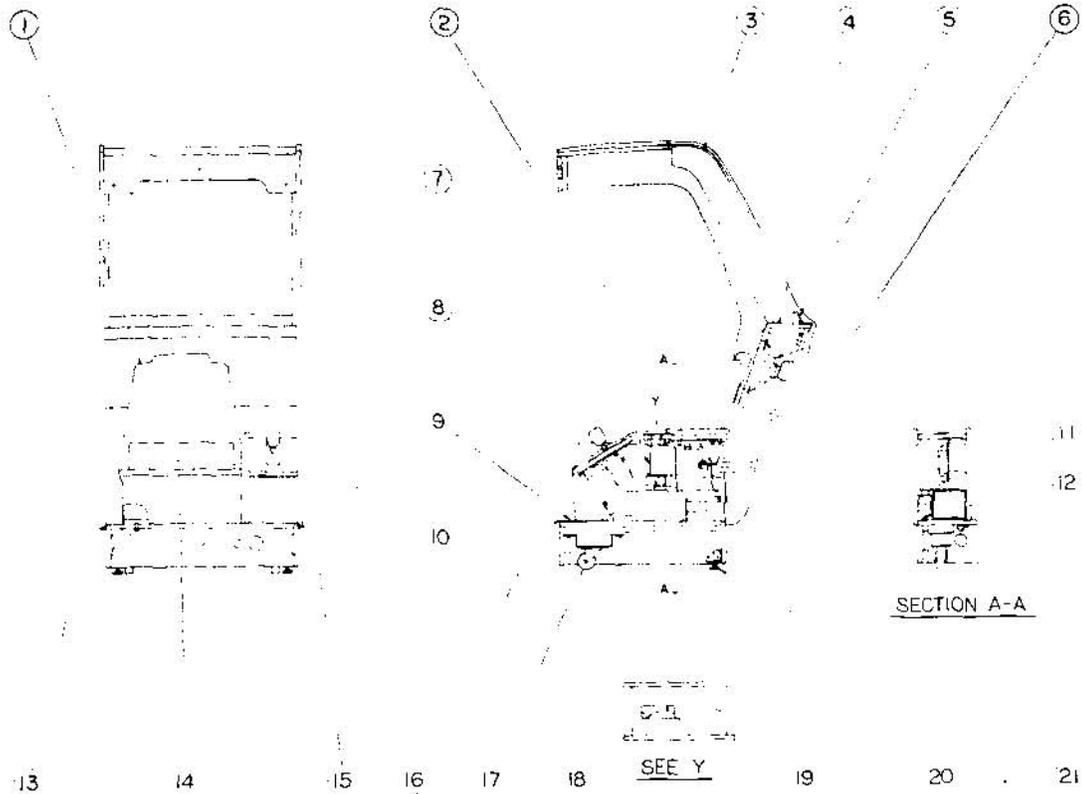
**MONACO GP**



Item	Part No.	Description
1	S-96626	Axial Flow Fan, AC 100V
2	LS-1064	Ace Cylinder Lock, L.S. Type
3	96595-P	Color Display Assy, 20 Type, 120V
4	96577-P	IC Board Assy, Monaco GP, A
	96578-P	IC Board Assy, Monaco GP, B
	96598-P	Oscillator, Monaco GP
	96624-P	Mother Board Assy, Monaco GP
5	S-96634	Noise Filter, AC 250V, 4A
6	90759X	Cable & Plug Assy
7	S-93425	Speaker, 20cm, 8Ω, 10W
8	MO-1005	Front Glass
9	MO-4200	Score Board Assy (See Page 21 for Detail)
10	S-83034	Toggle Hook, Hook
12	MO-1017	Floor Mat
13	S-81159	Caster
14	MO-1016	Accelerator Pedal Assy
	PC-1206	Photocoupler Unit, A
	PC-1207	Photocoupler Unit, B
	GP-1042	Extension Spring
	FL-3031	Extension Spring
15	MO-1020	Protector, Right
16	S-80807	Accelerator Pedal
17	M-163-4(L)	Leg Adjuster
18	MO-1021	Protector, Left

# MONACO GP

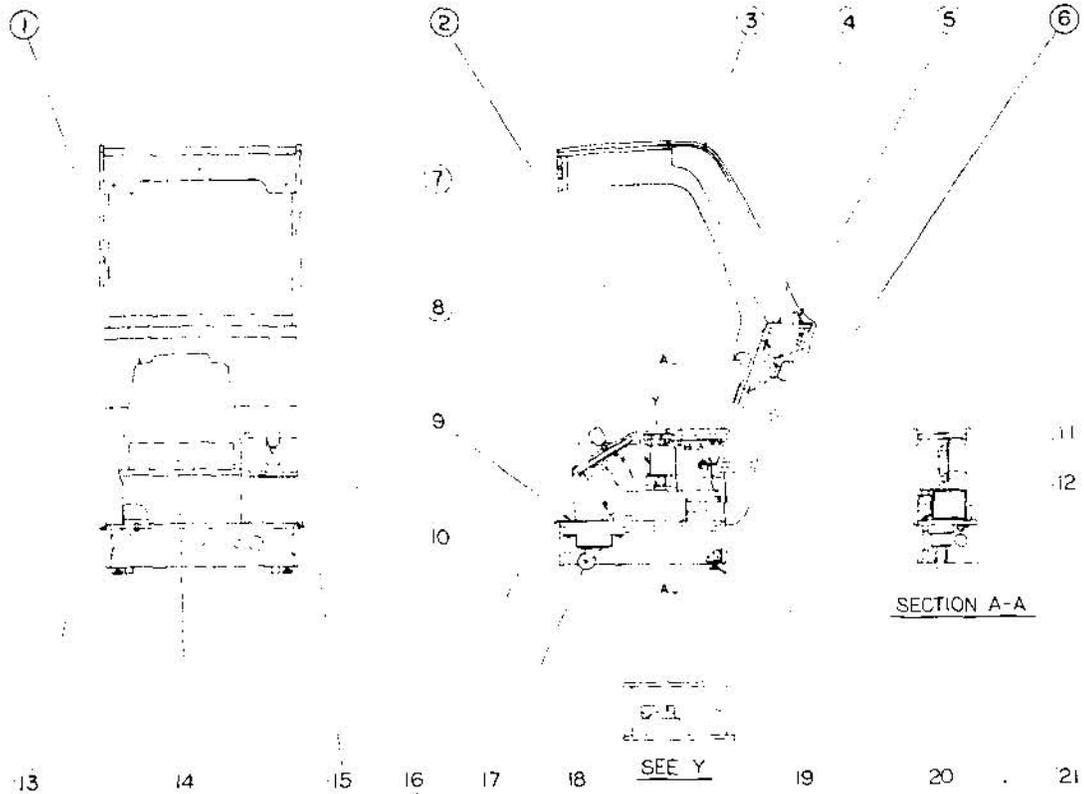
## REAR CABINET ACCESSORY ASSY



Item	Part No.	Description
1	MO-1110	Chair
2	S-96397	Push Button Switch, 1M, w/o Button
	S-96400	Push Button, Ivory, 8ø
	S-95657	C & R Combination Element, 0.1μ & 120Ω
	S-93157	Volume Control, B-25KΩ
	S-93467	Switch, Micro Type, Push Button, Red
3	MO-1123	Hood
4	MO-1125	Ornament Frame, B
5	MO-1124	Ornament Frame, A
6	S-93425	Speaker, 20cm, 8Ω, 10W
7	CC-2100	Coin Chute, Rejector Type, ¥100
8	MO-1127	Transmission Assy
	MO-1128	Handle Retainer Assy
	2P-11600	Rubber Bumper
	FC-2541	Compression Spring
	S-91421	Switch, Micro Type
9	MO-1106	Floor Mat
10	MO-1129	Shift Knob Assy
11	AH-1062	Reject Cup & Flap Door Assy
12	S-91654	Rectifier, Silicon Diode
13	MO-1109	Protector, C
14	MO-1111	Saddle
15	MO-1108	Protector, B
16	MO-1107	Protector, A
17	S-82660	Caster, Nylon Wheel
18	PT-0212	Coin Entry Plate, ¥100
19	MO-1419	Coin Entry Plate
20	LS-1064	Ace Cylinder Lock, L.S. Type
21	M-163-4(L)	Leg Adjuster

# MONACO GP

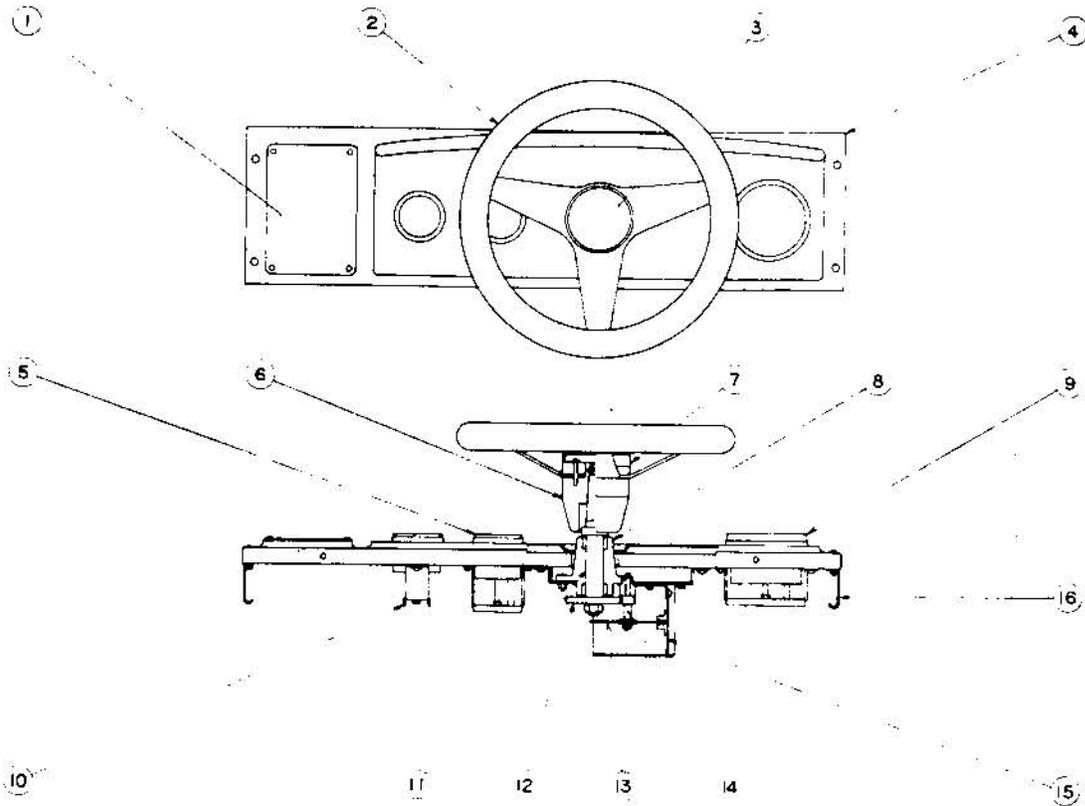
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# FRONT PANEL & HANDLE UNIT

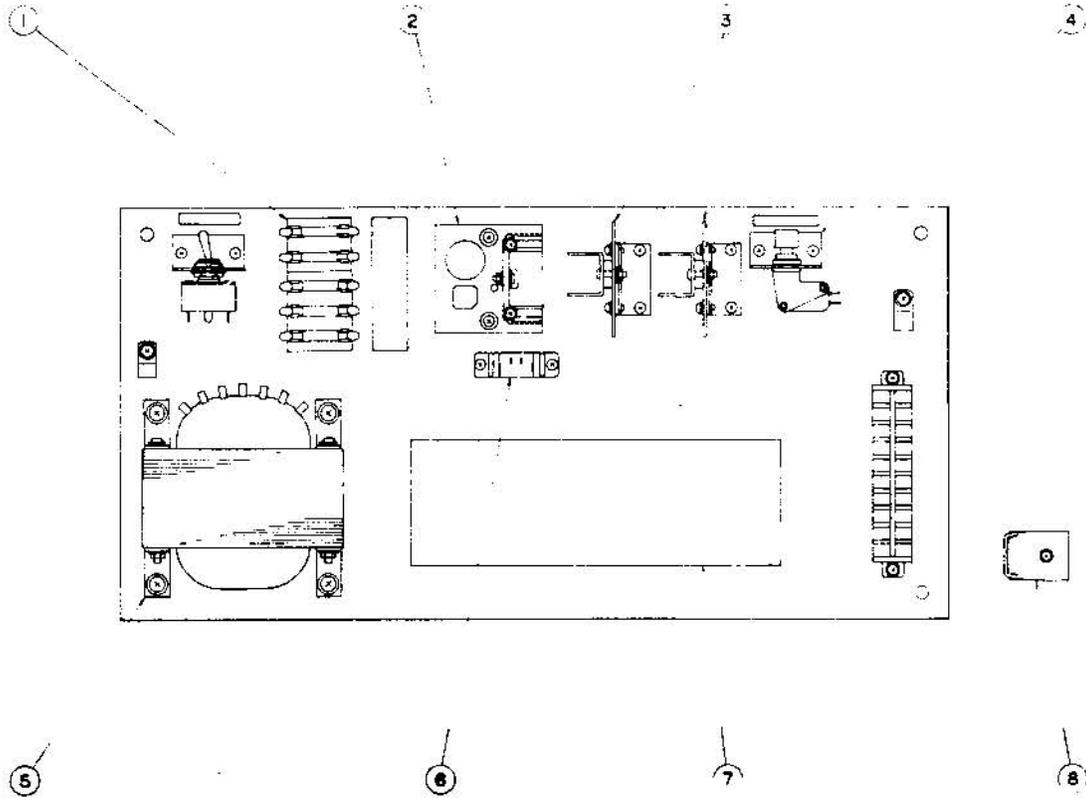
# MONACO GP



Item	Part No.	Description
1	MO-2011	Play Instructions
2	S-81620X	Steering Handle
3	MO-2016	Steering Handle Ornament
4	MO-2001	Front Panel
5	S-96637	Oil Pressure Gauge
6	RR-2013	Steering Handle Boss, Lower
7	RR-2014	Steering Handle Boss, Upper
8	MO-2004	Housing
9	S-96635	Tachometer
10	S-96636	Driving Meter
11	MO-2005	Steering Wheel Shaft
12	MO-2009	Spur Gear, 60T
13	MO-2007	Disc
14	MO-2008	Spur Gear, 14T
15	96599-P	IC Board Assy, Monaco GP, C
16	MO-2015	Hook

# MONACO GP

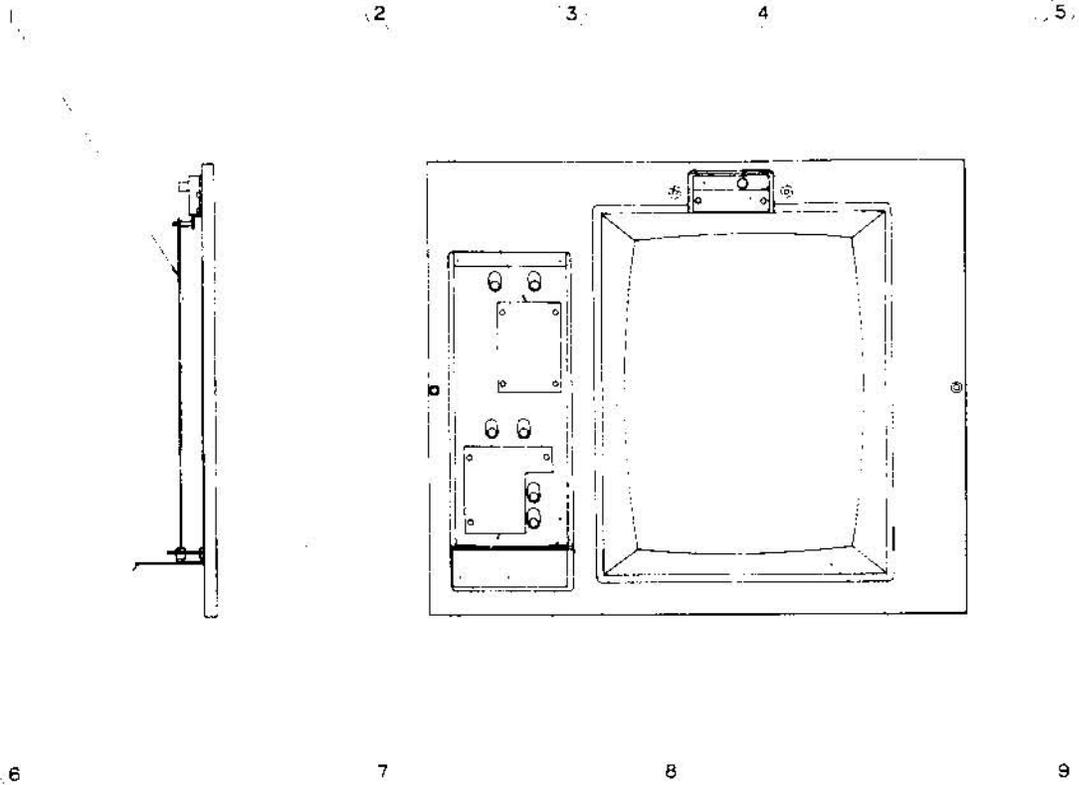
## POWER SUPPLY ASSY



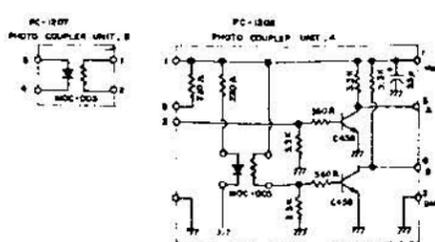
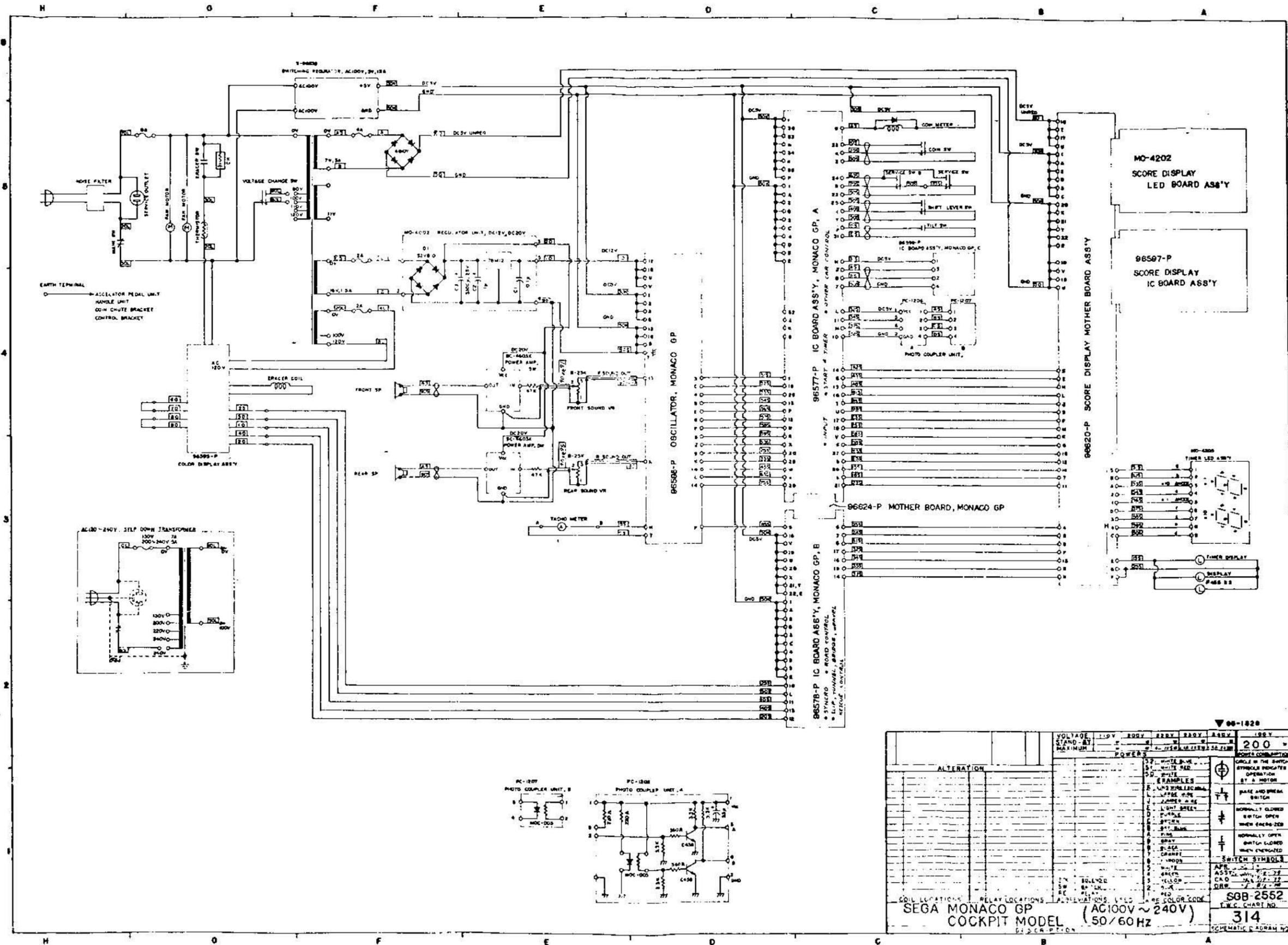
Item	Part No.	Description
1	S-90644	Fuse, 2A
	S-91941	Fuse, 4A
	S-91151	Fuse, 8A
2	MO-4002	Regulator Unit, DC 12V, 20V
	S-95596	IC, $\mu$ A78M12UC
3	BC-4603X	Power Amplifier, 5W
4	S-93467	Switch, Micro Type, Push Button, Red
5	96627	Power Transformer, 90-120V, 7V, 11V, 16V, 100-120V
6	S-94441	Rectifier, Silicon Diode
7	S-96638	Switching Regulator, AC 100V, 5V, 15A
8	S-96262	AC Cord Connector Body, Flat Type, 125V-15A

# SCORE BOARD ASSY

# MONACO GP



Item	Part No.	Description
1	96597-P	Score Display IC Board Assy
2	MO-4206	Mask, High Score
3	MO-4205	Timer LED Assy
	S-96600	L.E.D., Numeric Display, Red
4	S-94428	Bulb, 6.3V, 0.25A, Bush Type
5	MO-4208	Mask, Timer
6	96620-P	Score Display Mother Board Assy
7	MO-4207	Mask, Score
8	MO-4202	Score Display L.E.D. Board Assy
	S-96600	L.E.D., Numeric Display, Red
	S-96601	L.E.D., Numeric Display, 2 Digit, Red
9	MO-4210	TV Mask



ALTERATION	VOLTAGE		RATED	SERIAL	PART	QTY	REMARKS
	MINIMUM	MAXIMUM					
			200				

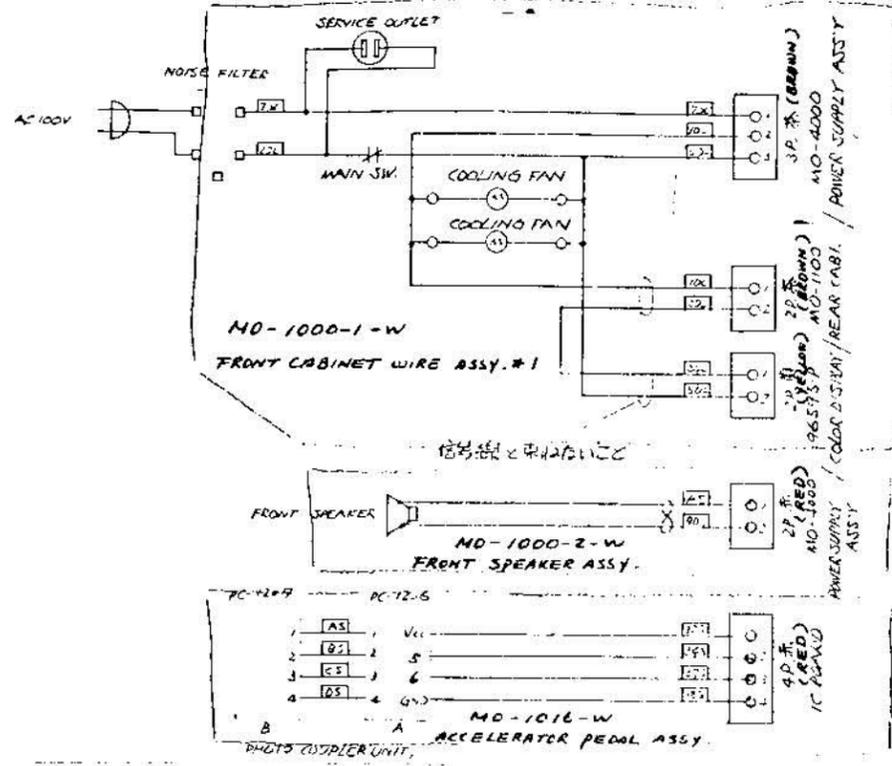
NO.	DESCRIPTION	SYMBOL	FUNCTION
1	WHITE LED	+	INDICATE SWITCH OPERATION
2	RED LED	+	INDICATE SWITCH OPERATION
3	GREEN LED	+	INDICATE SWITCH OPERATION
4	YELLOW LED	+	INDICATE SWITCH OPERATION
5	PINK LED	+	INDICATE SWITCH OPERATION
6	BLUE LED	+	INDICATE SWITCH OPERATION
7	ORANGE LED	+	INDICATE SWITCH OPERATION
8	COMMON	-	COMMON TO ALL

COIL LOCATIONS RELAY LOCATIONS  
**SEGA MONACO GP**  
**COCKPIT MODEL (AC100V ~ 240V)**  
 50/60HZ

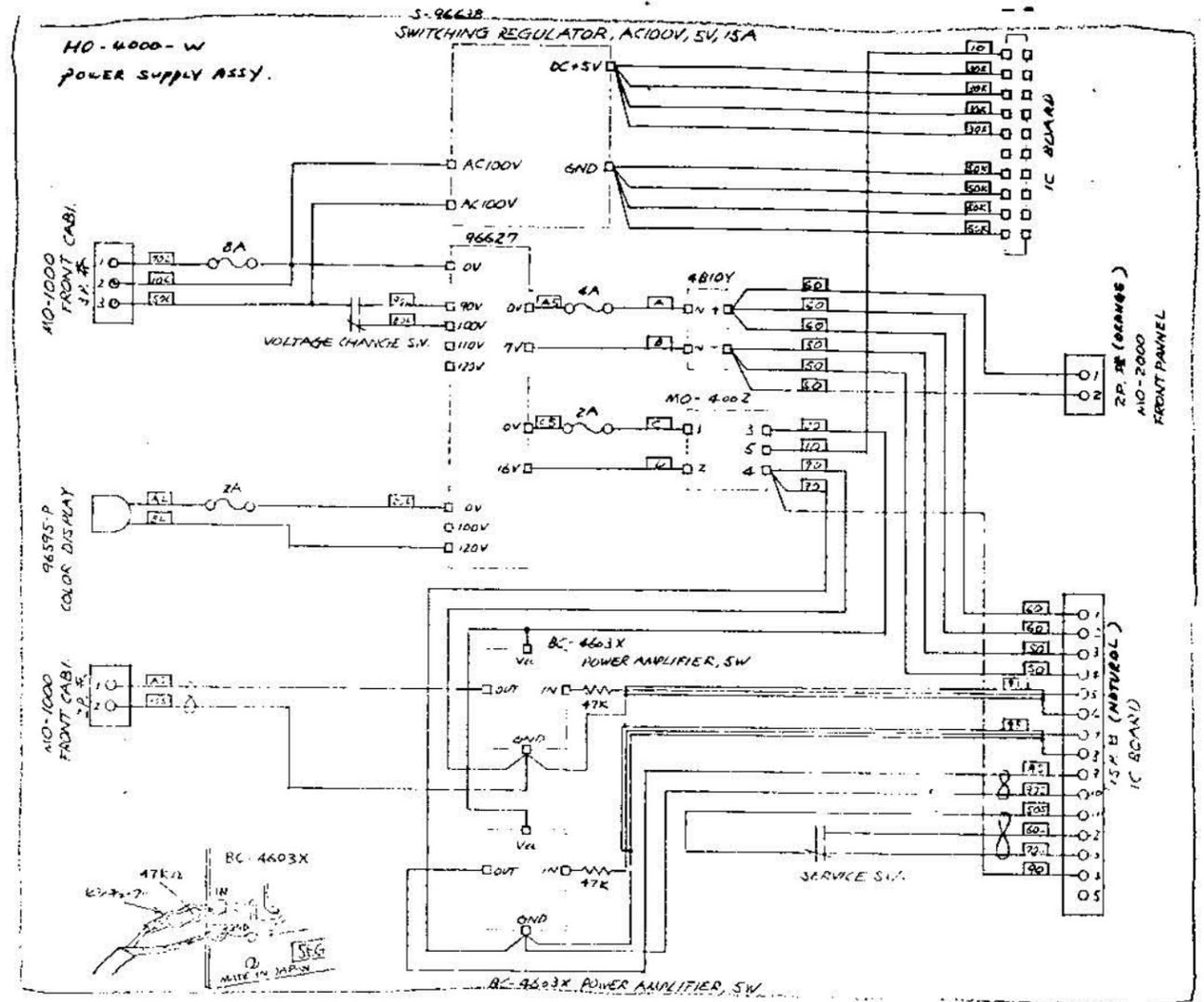
SGB-2552  
 I.W.C. CHART NO. 314  
 SCHEMATIC DIAGRAM NO.



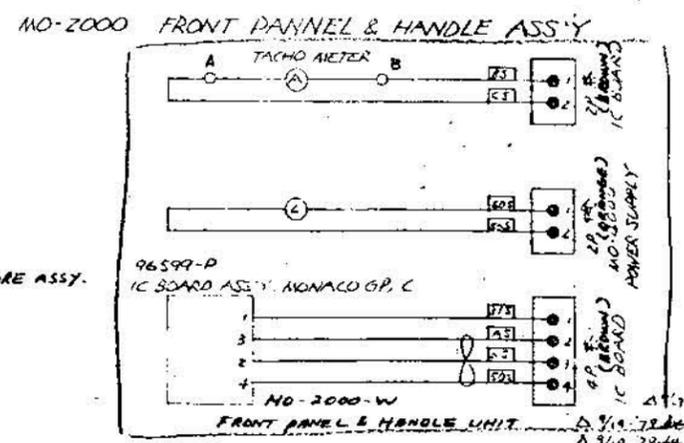
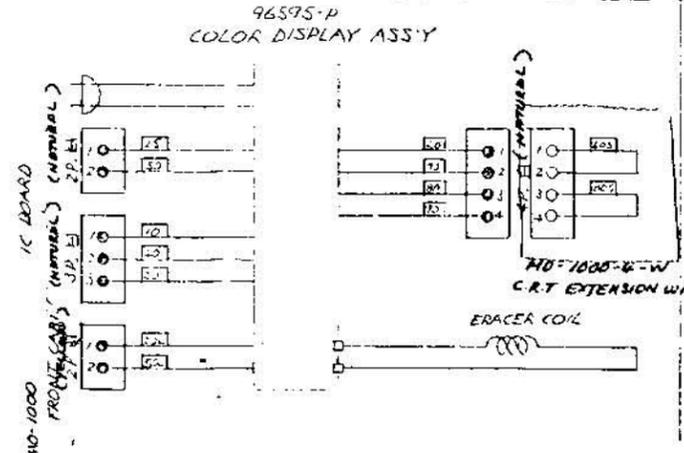
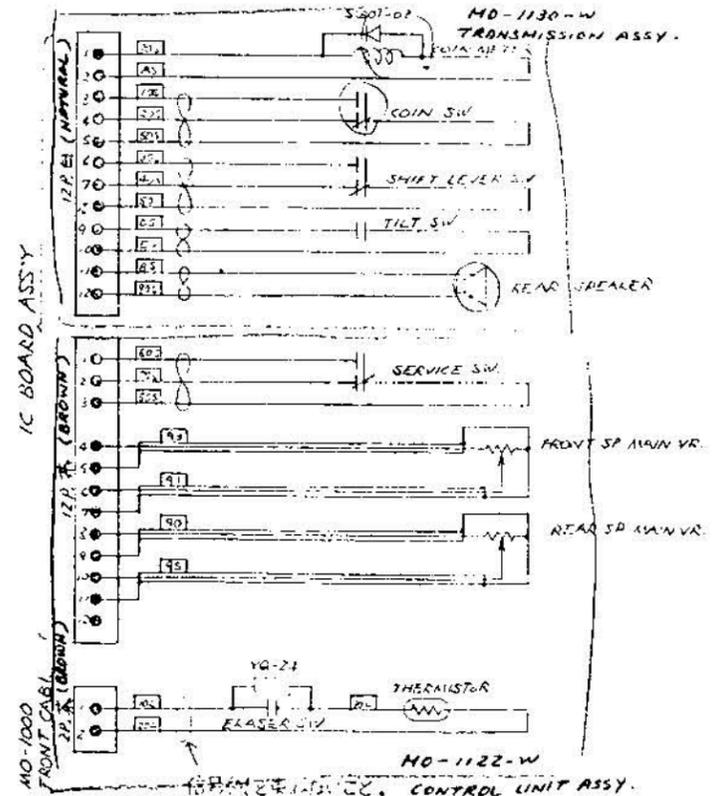
MO-1000 FRONT CABINET ACCESSORY ASS'Y



MO-4000 POWER SUPPLY ASS'Y



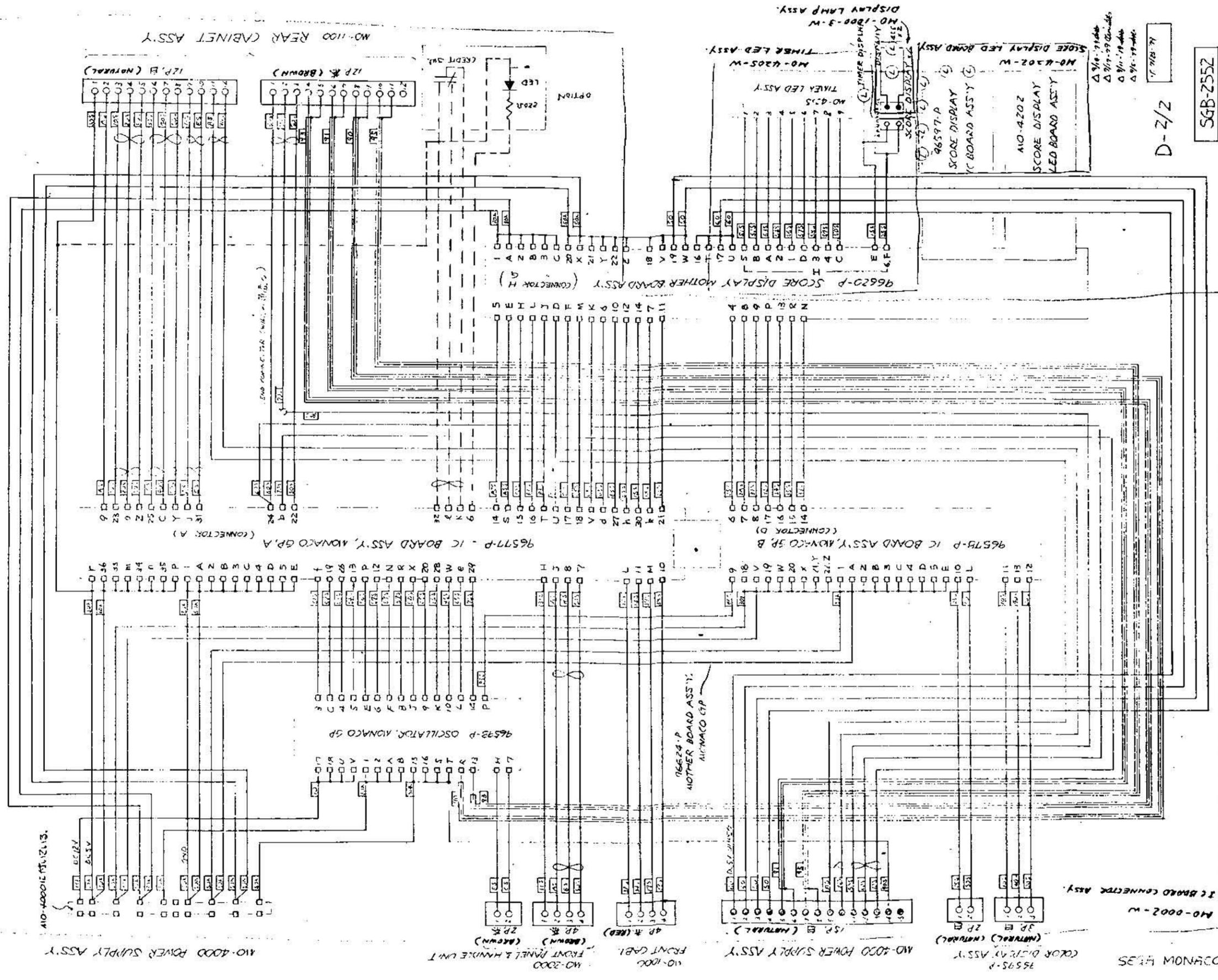
MO-1100 REAR CABINET ACCESSORY ASS'Y



SEGA MONACO GP (COCKPIT)

D-1/2  
 SGB-2552  
 W.C. CHART NO  
 314  
 SCHEMATIC DIAGRAM NO

IC BOARD ASS'Y



SEGA MONACO GP (LOCK PT)

SGB-2552  
 T.W.C. CHART NO.  
 314  
 SCHEMATIC DIAGRAM NO.

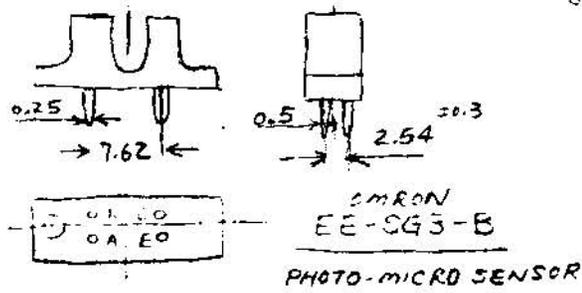
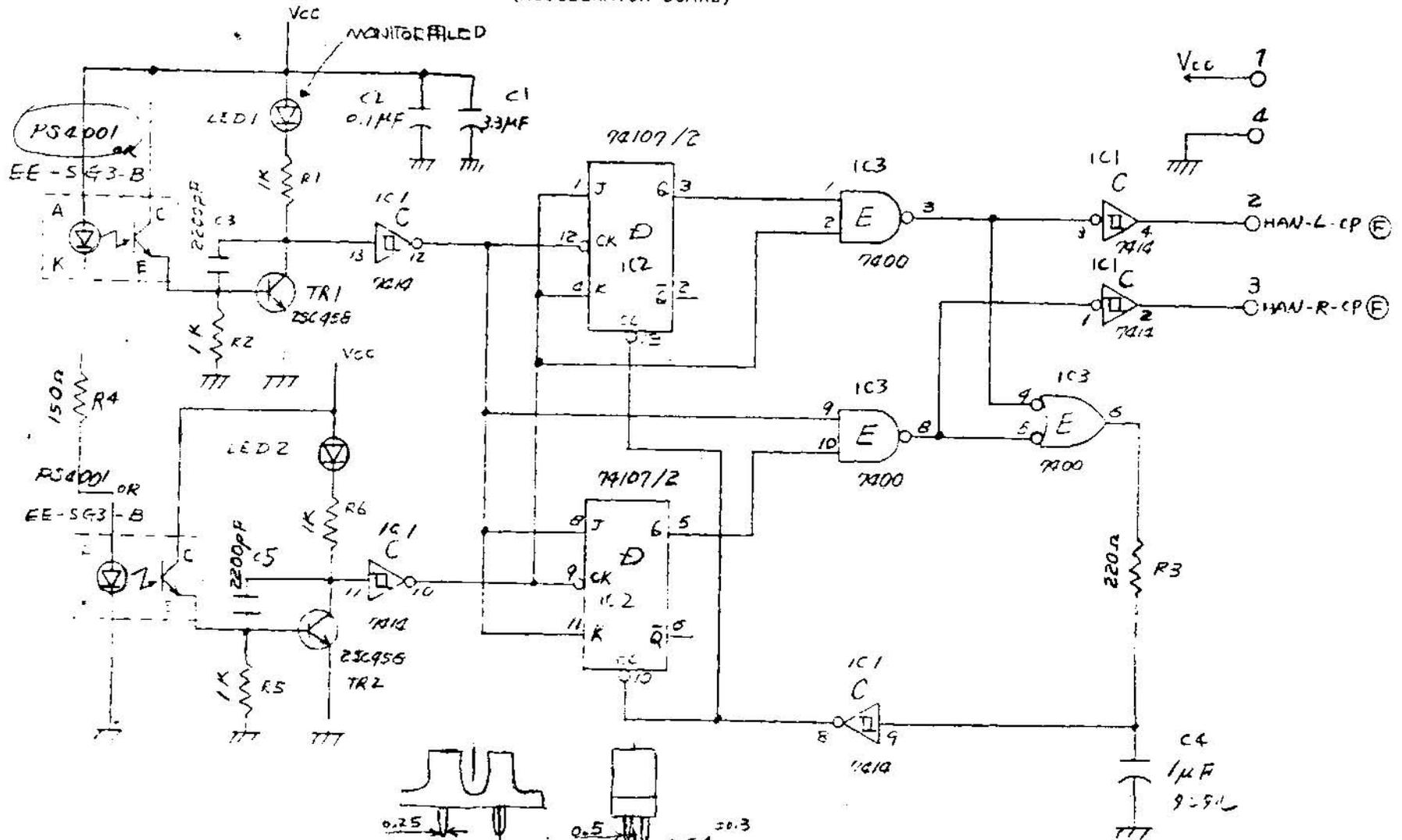
D-2/2

Δ 9/10-79  
 Δ 9/11-79  
 Δ 9/12-79  
 Δ 9/13-79

PH OXANON PRESS

# HANDLE, LOGIC DIAGRAM

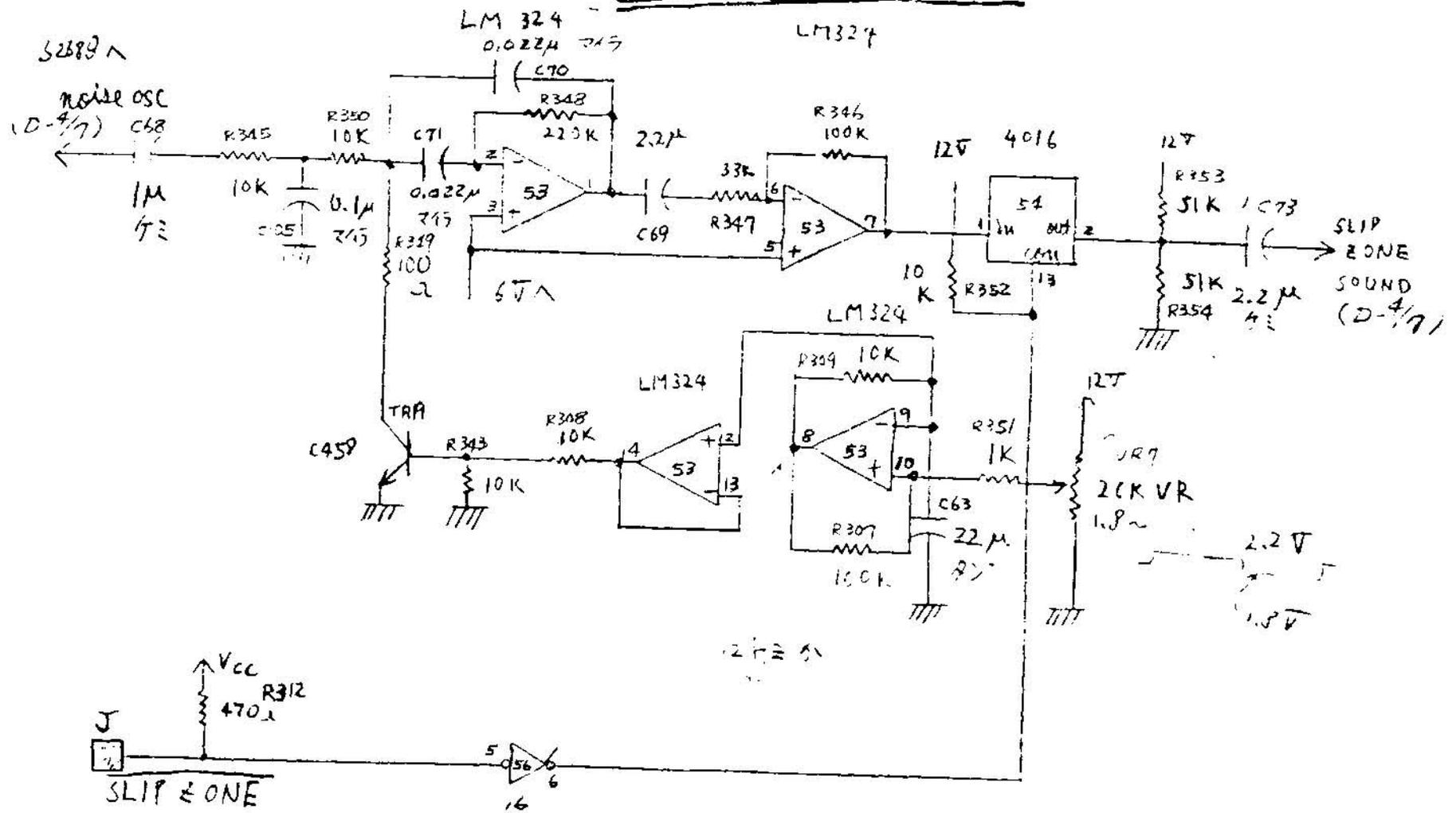
(ACCELERATOR BOARD)



96599-P

IC BOARD ASSY

# SLIP ZONE SOUND



LM324 1

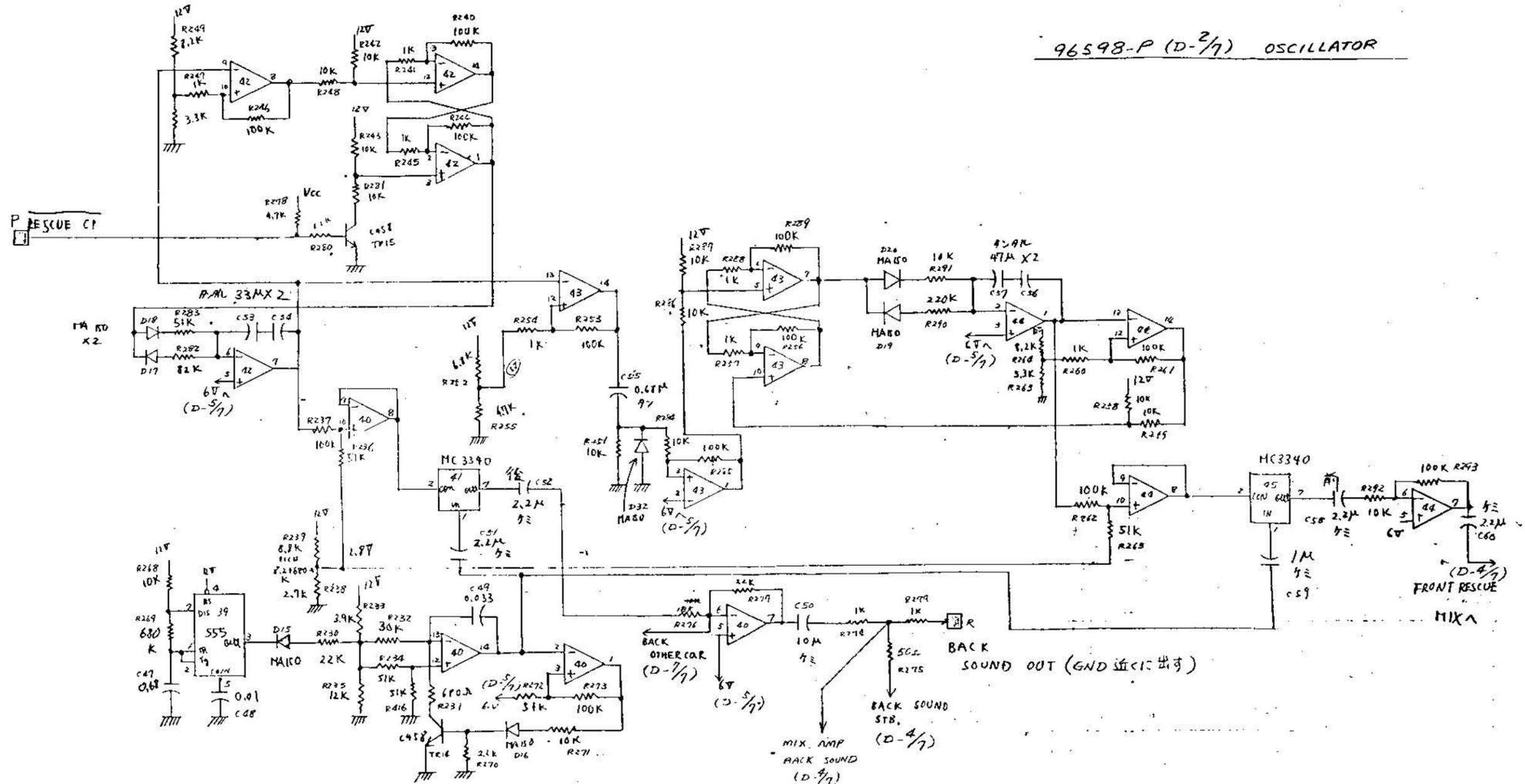
96598-P (D-1/7) OSCILLATOR

⑤ - MONACO GP

OP AMP LM324

RESCUE CAR

96598-P (D-2/7) OSCILLATOR

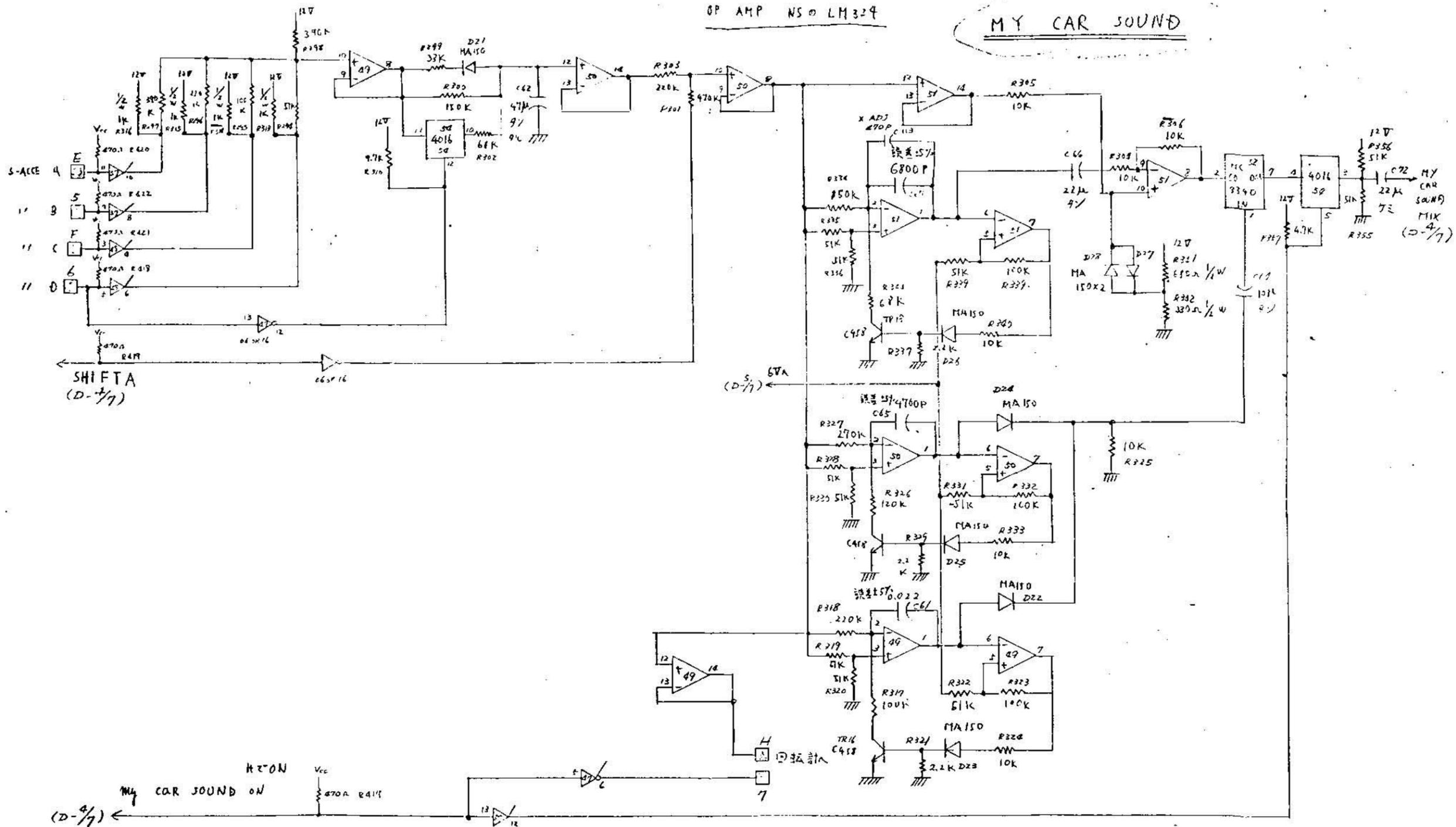


- LM324 4コ
- 555 1コ
- MC3340 2コ

S MONACO GP

GP AMP NSO LM324

MY CAR SOUND



SHIFTA (D-7/7)

5V (D-7/7)

MY CAR SOUND ON  
(D-9/7)

96598-P (D-3/7) OSCILLATOR

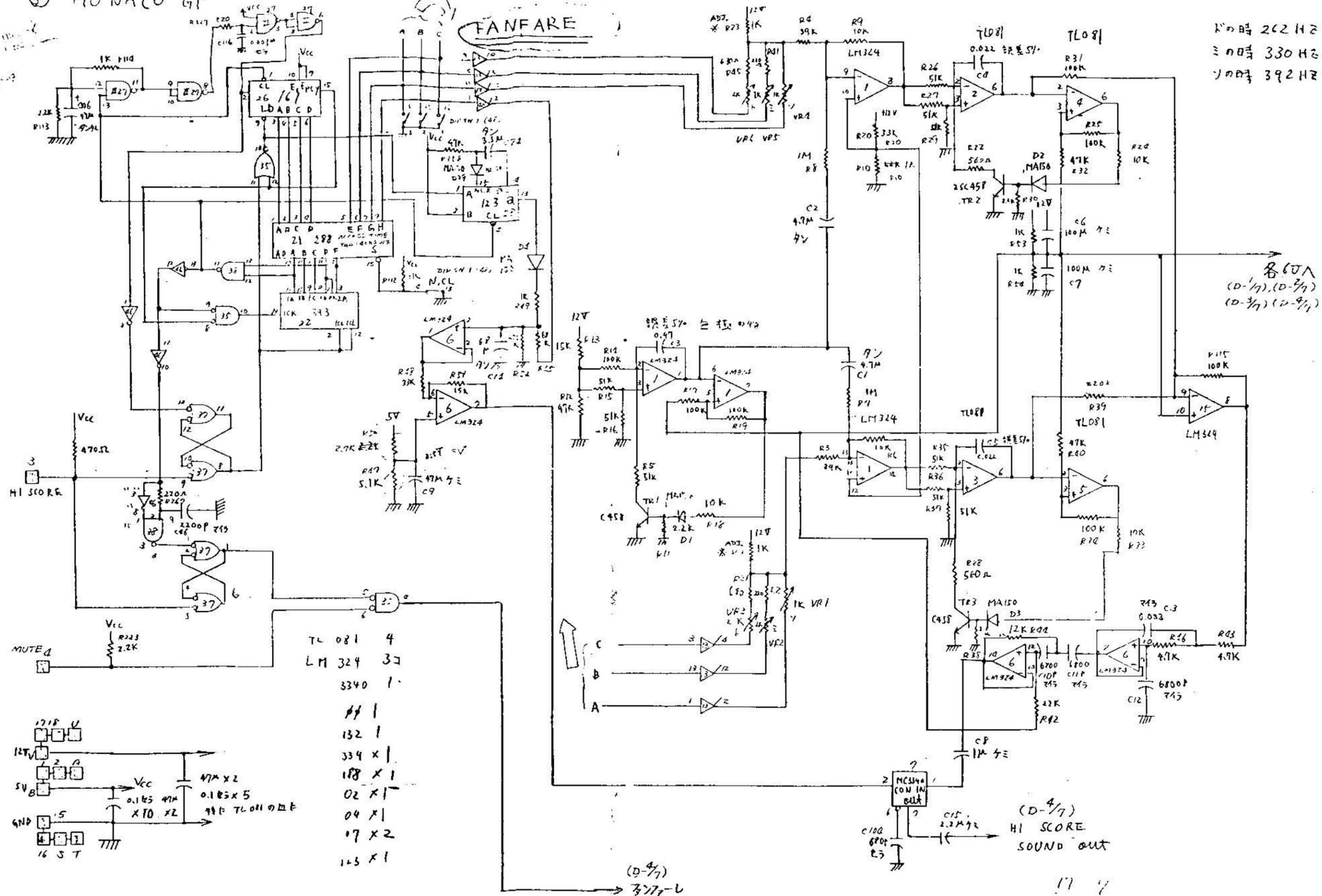
- LM 324 x 3
- 04 x 1
- 07 x 2
- 330 x 1

回転計内部 x-9-類のランプ  
1712V AC 又は DC

15 750MA  
K2



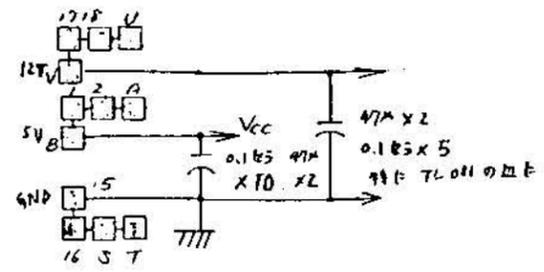
⑤ MONACO GP



100時 262 Hz  
 300時 330 Hz  
 500時 392 Hz

8Ω  
 (0-1/1), (0-2/1)  
 (0-3/1), (0-4/1)

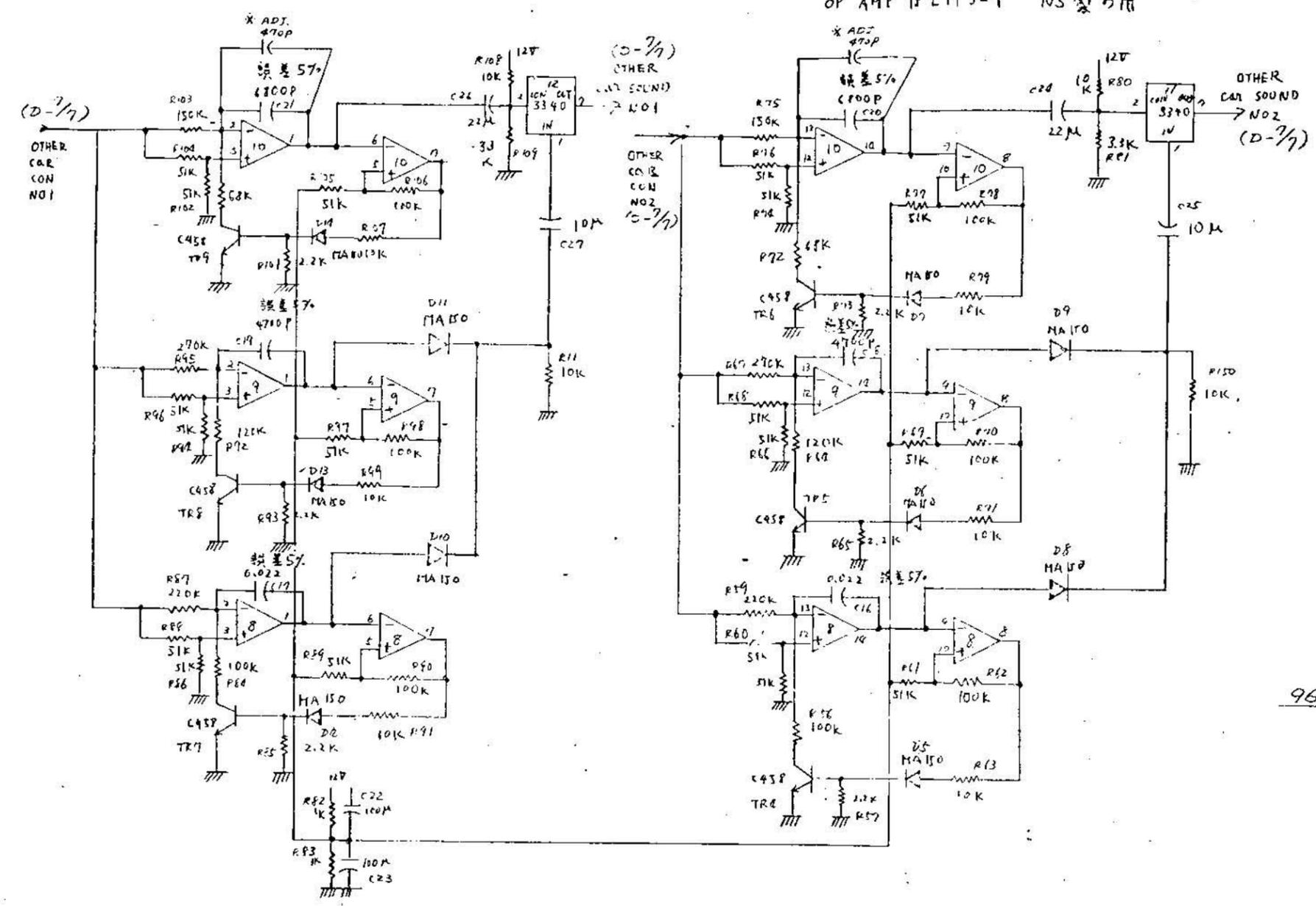
- TL 081 4
- LM 324 3
- 3340 1
- 11 1
- 132 1
- 334 X 1
- 188 X 1
- 02 X 1
- 04 X 1
- 07 X 2
- 143 X 1



96598-P (0-5/1) OSCILLATOR

(0-4/1)  
 HI SCORE  
 SOUND OUT

⑤ - MONACO GP



OTHER CAR SOUND

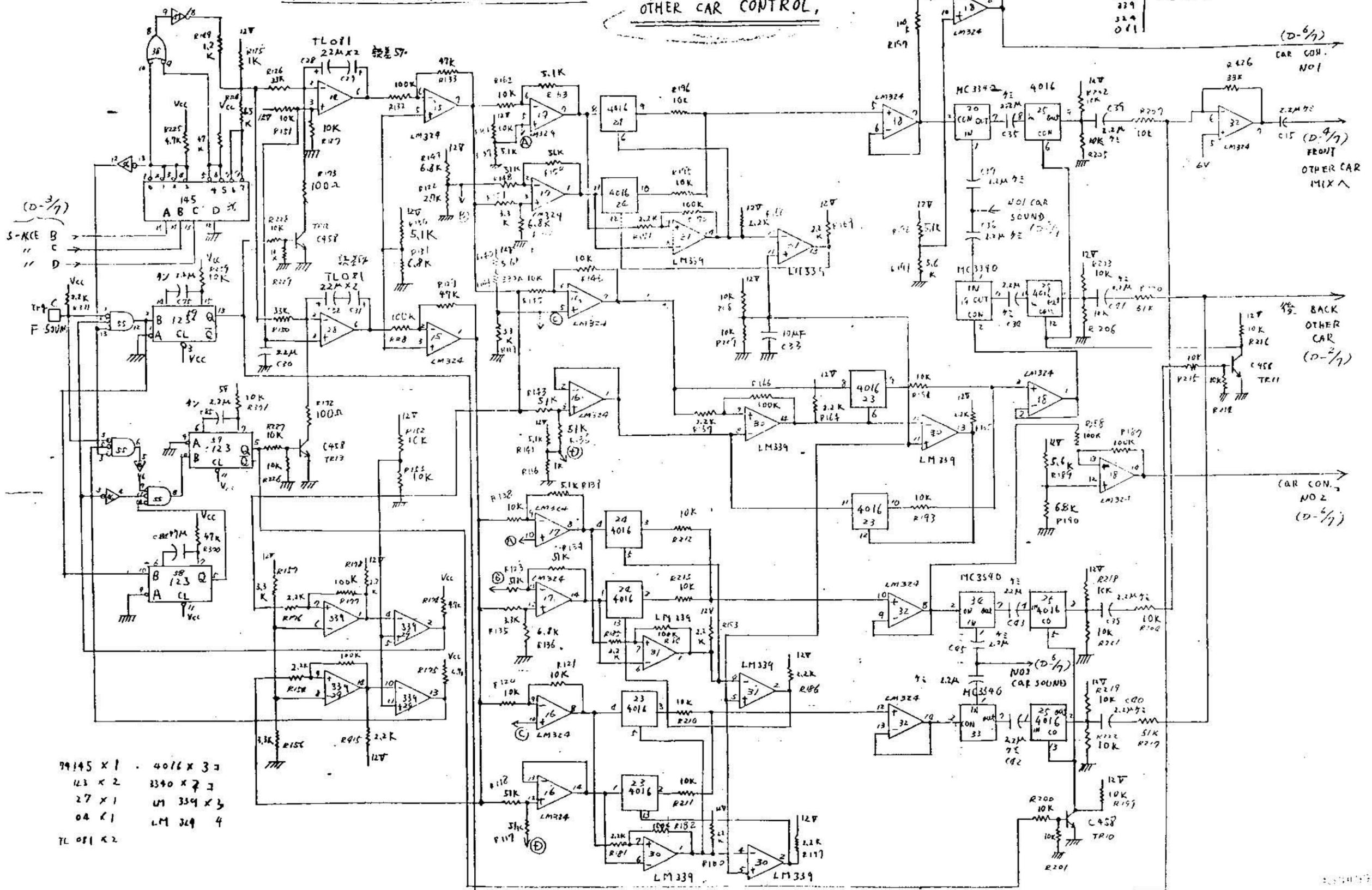
96598-P (D-6/7) OSCILLATOR

LM324 X3  
IC 3340 X2

⑤ MONACO GP

96598-P (D-7/7) OSCILLATOR

OTHER CAR CONTROL,



- 74145 x 1
- 4016 x 3
- 123 x 2
- 3340 x 2
- 27 x 1
- LM 339 x 3
- 04 x 1
- LM 324 x 4
- TL 081 x 2

4016  
3340  
27  
334  
041

(D-6/7)  
CAR CON. NO. 1

(D-6/7)  
FRONT  
OTHER CAR  
MIX

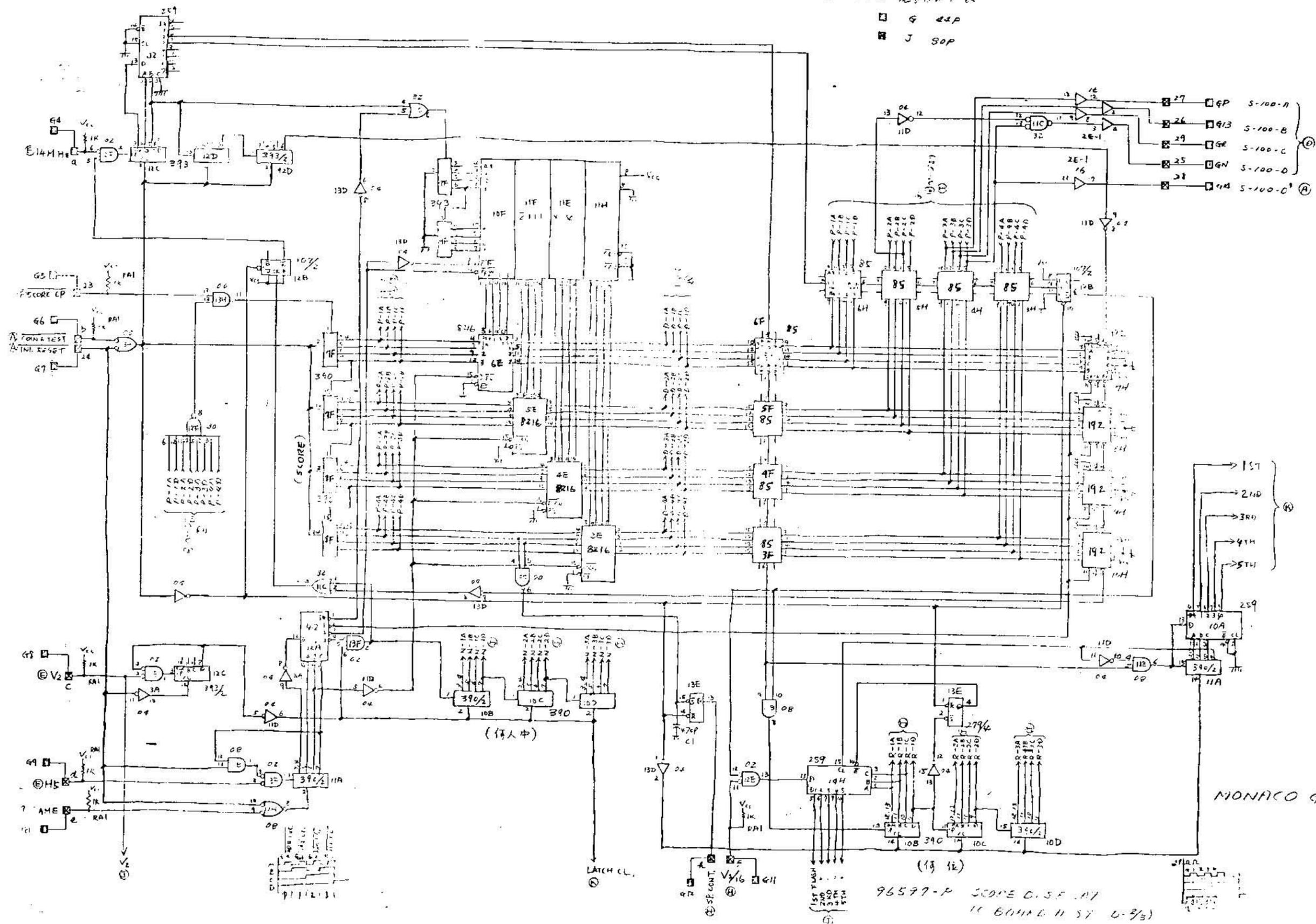
BACK  
OTHER CAR  
(D-6/7)

CAR CON. NO. 2  
(D-6/7)

I

CONNECTOR TOP SIDE P 2

- G 42P
- J 50P

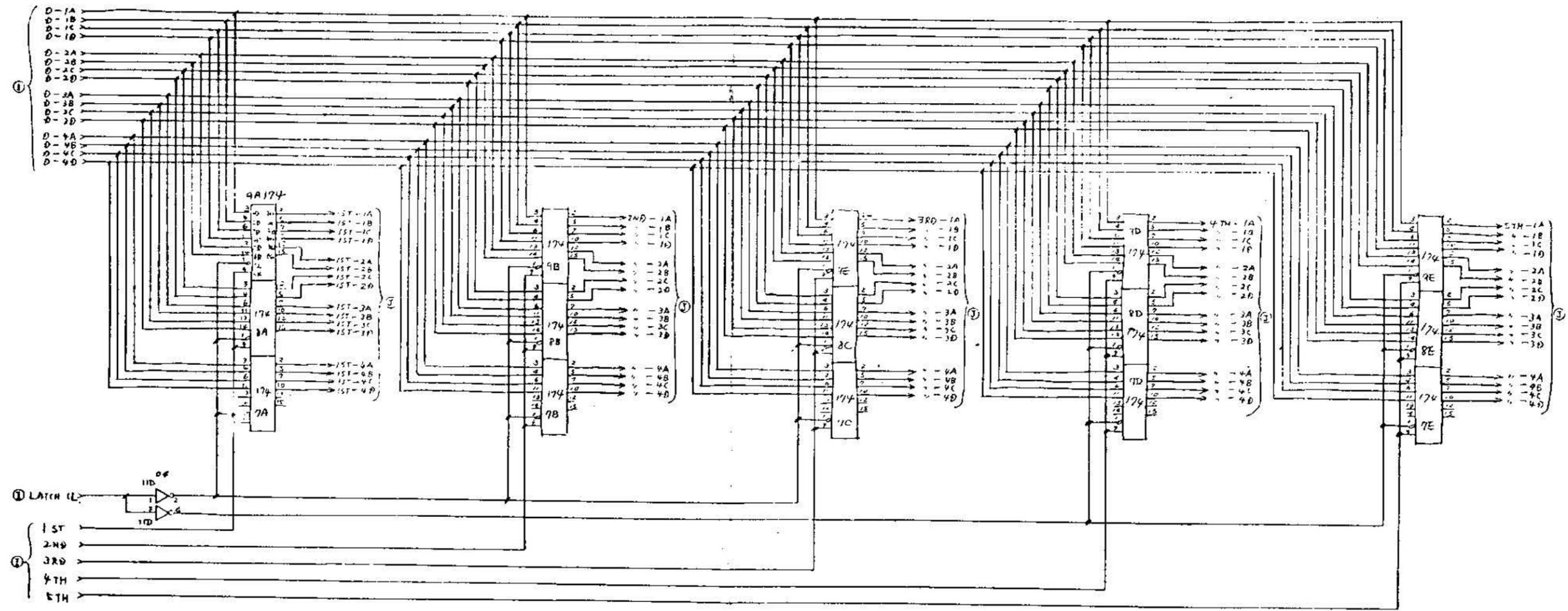


- 27 □ GP S-100-A
- 26 □ 913 S-100-B
- 29 □ 96 S-100-C
- 25 □ 9N S-100-D
- 28 □ 94 S-100-D

MONACO GF

96599-P SCORE D.S.F. (17)  
10 BOARD N ST 0-2/3

K



96597-P SCORE DISPLAY IC BOARD ASSY.(D-3/3)

MONACO GP

(1)

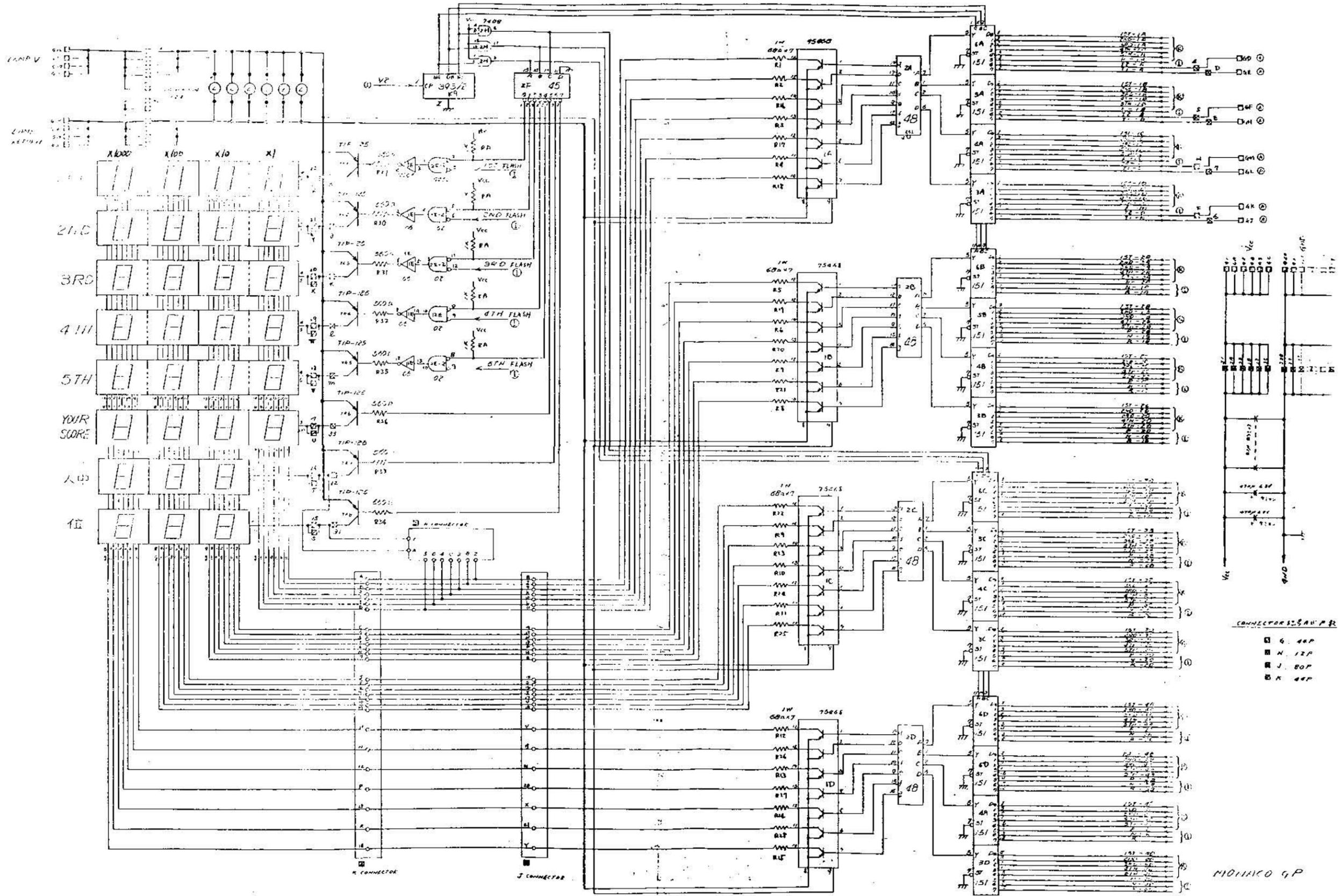


FIG. 4202  
SCORE DISPLAY LED BOARD ASSY

96620-P  
SCORE DISPLAY  
MOTHER BOARD ASSY.

96597-P SCORE DISPLAY IC BOARD ASSY. (D-1/3)

CONNECTOR 155A P 12

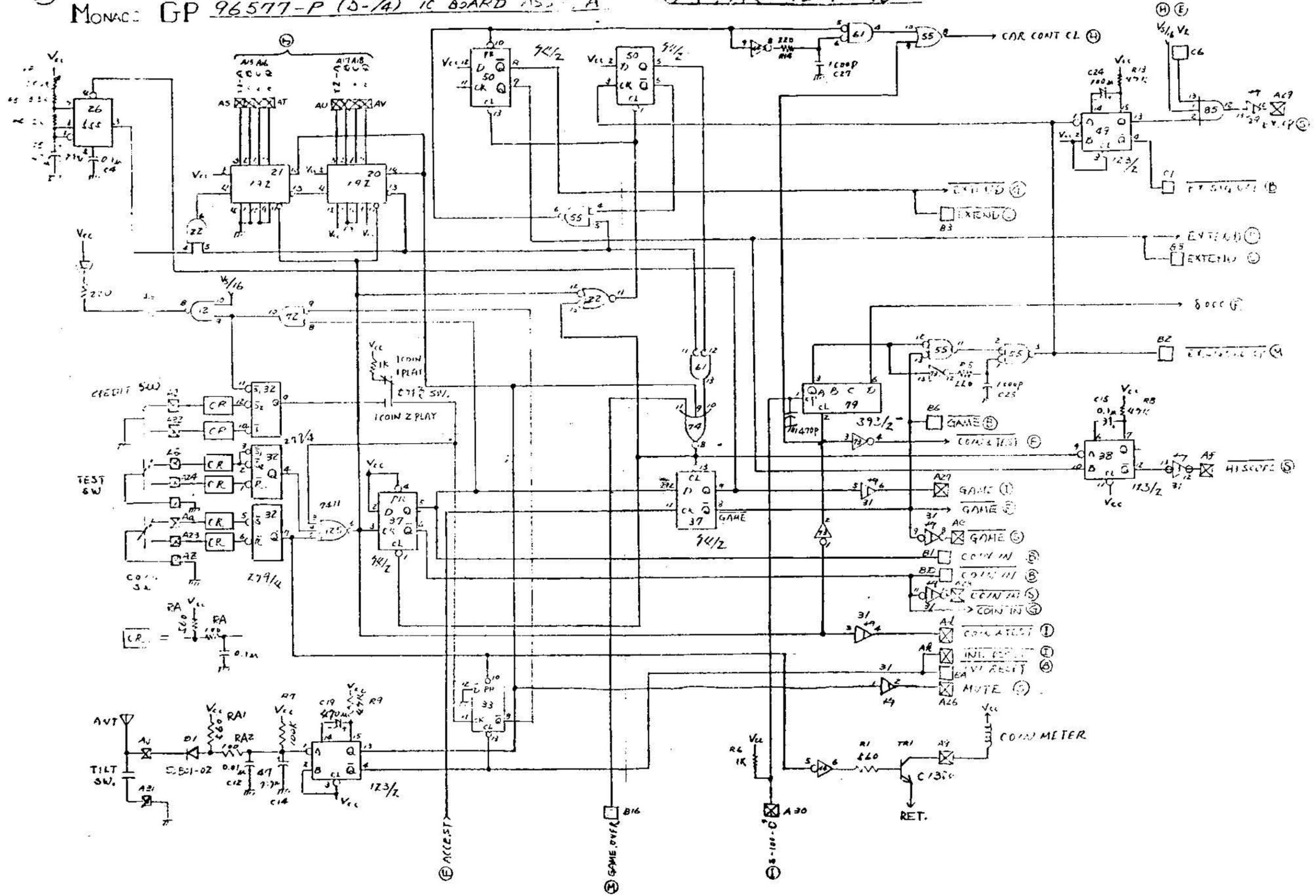
- 6: 40P
- N: 12P
- J: 80P
- K: 40P

MOTOROLA GP

A 1/13

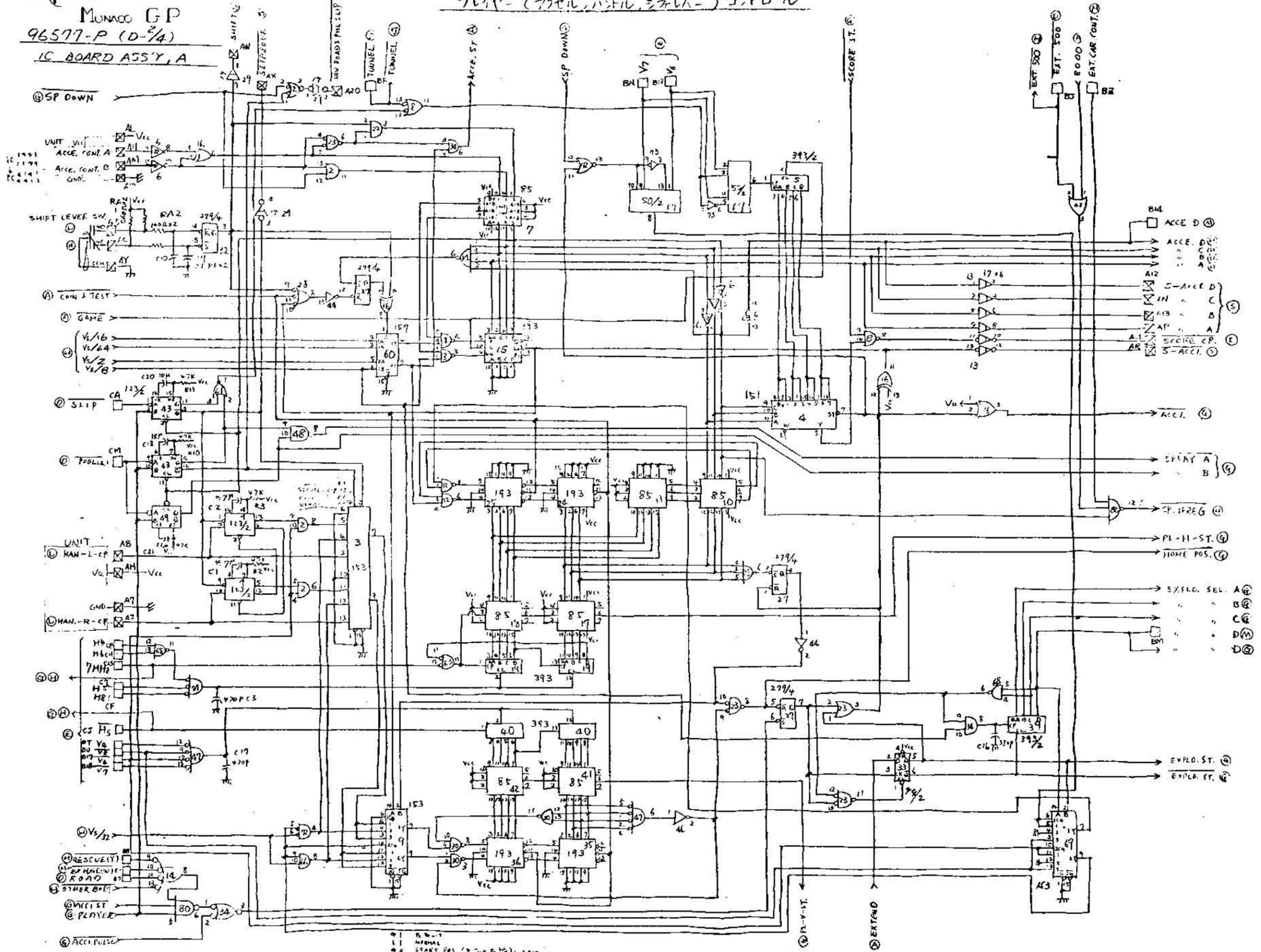
MONACO GP 96577-P (D-1/4) IC BOARD ASSY A

29-1-972-CONTROL



MONACO GP  
96577-P (0-1/4)  
IC BOARD ASS'Y, A

PL-11 (77セル, ハジレ, エキス) コントロル

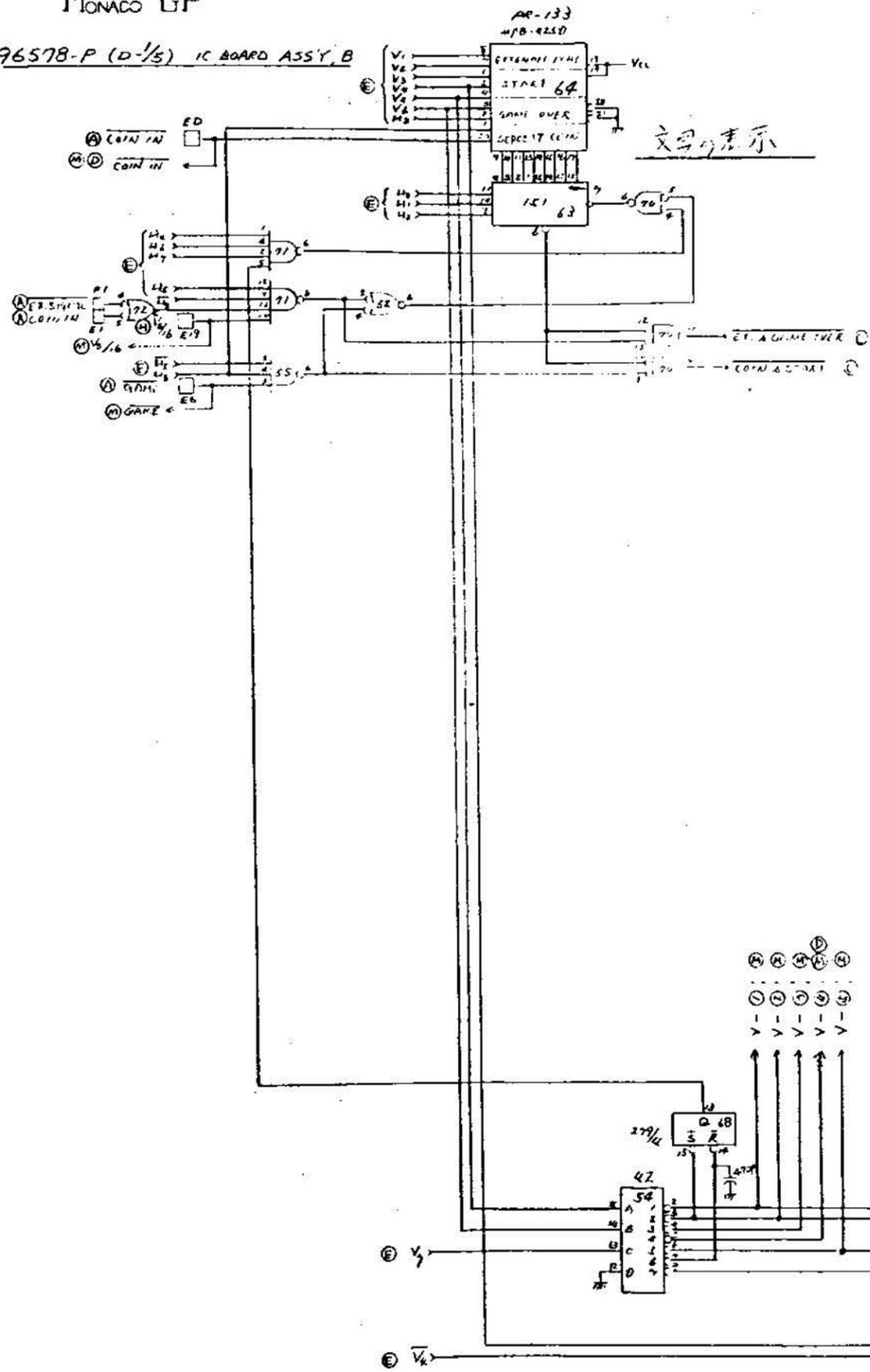


1 R.W.  
11 NORMAL  
12 START POS. (3-2-E) SET  
14 NORMAL VOLTAGE ACCE. D

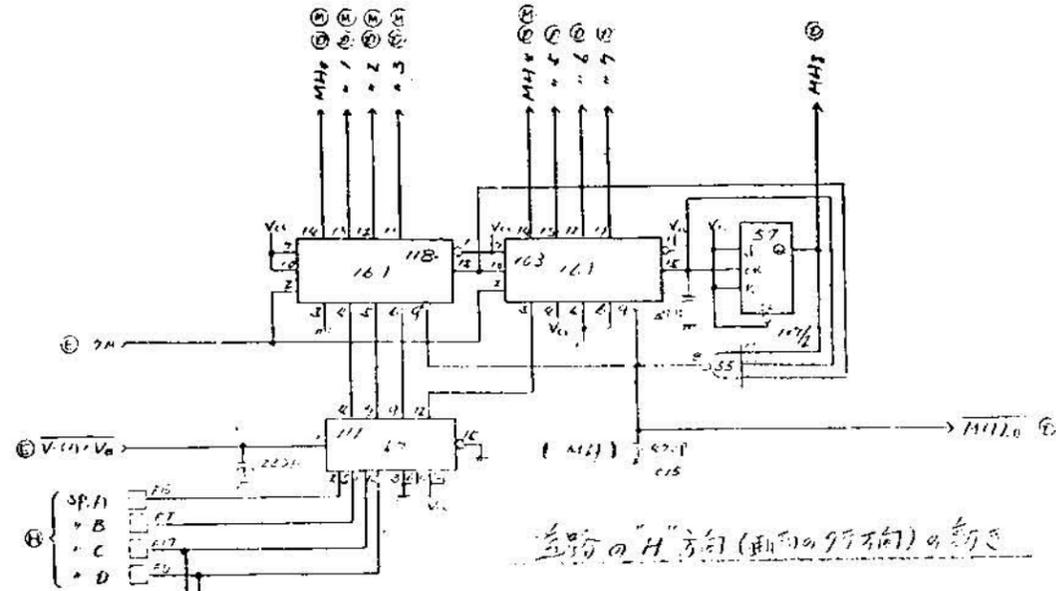


② 2/18  
MONACO GP

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



文字の表示

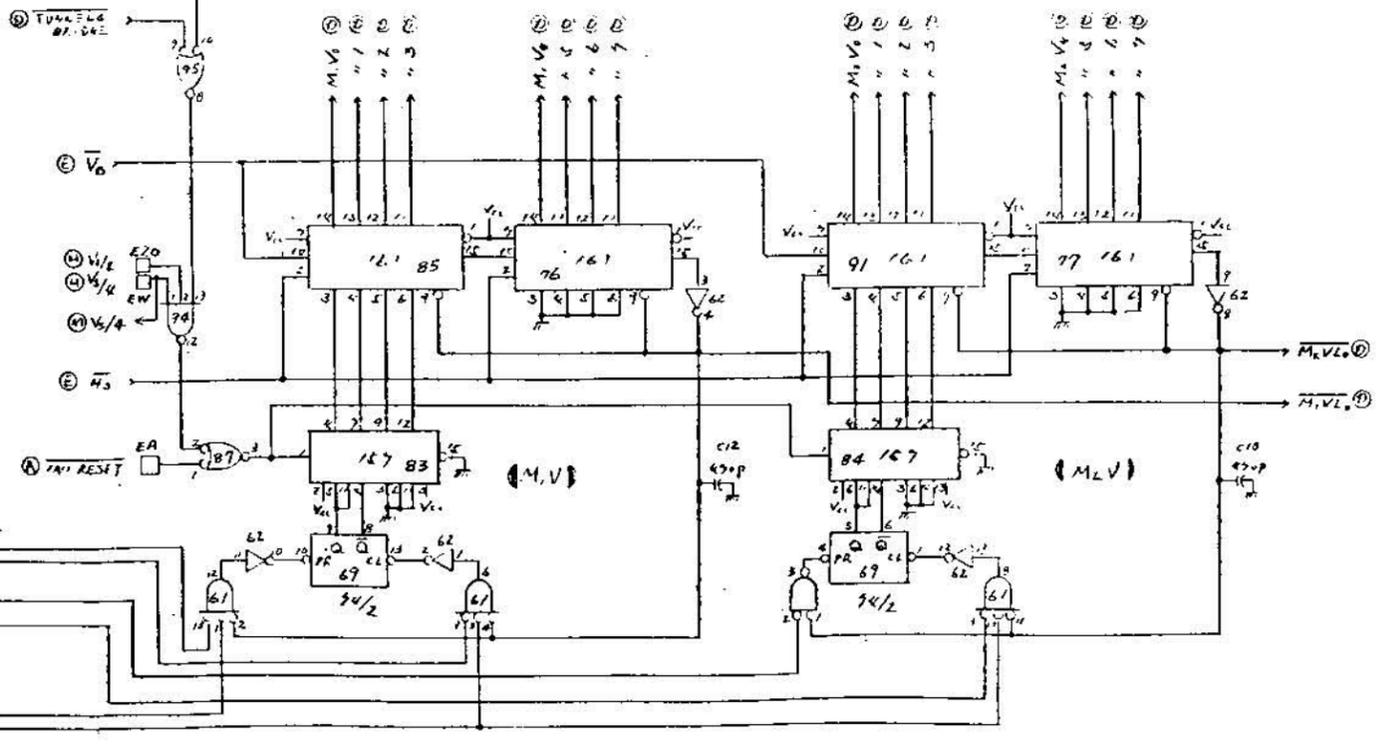


並列のH方向(初期の9行方向)の動き

並列のV方向(初期の3行方向)の動き

右側

左側









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

