



SEGA[®]

CRACKDOWN

2 PLAYER TYPE
OWNER'S MANUAL

SEGA ENTERPRISES, LTD.

4201-0006

TABLE OF CONTENTS

| | |
|---|-------------------|
| Introduction to the Owner's Manual | 1 |
| 1. Handling Precautions | 2 |
| 2. Prevention of Counterfeiting and Conversion | 2 |
| 3. Precautions Concerning the Place of Installation | 3 |
| 4. Disk Installation | 4 |
| 5. Name of Parts | 5 |
| 6. Adjustment of the Service Switch | 6 |
| 7. Servicing the Power Supply Unit and Fuse | 7 |
| 8. P.C. Board Assembly | 7 |
| 9. Servicing the Floppy Disk | 8 |
| 10. Crackdown Test Mode | 9 |
| 11. Drawing of P.C. Assembly | 15 |
| 12. P.C. Board Component Locations | 16 |
| 13. Monitor Adjustments and Game Board Servicing | 17 |
| 14. Parts List | 18 |
| 15. Adjustment Instruction Switch Setting Sheet | 20 |
| 16. Schematic Diagram | Inside Back Cover |

SPECIFICATIONS

| | |
|----------------------|----------------------------|
| INSTALLATION SPACE : | 30 in. W x 37 in. D |
| HEIGHT : | 73 in. |
| POWER : | 201 W |
| C.R.T. : | 26 MONITOR MED. RESOLUTION |
| WEIGHT : | 140 kg (307 lbs.) |

NOTE

- Descriptions herein contained may be subject to improvement changes without notice.

INTRODUCTION TO THE OWNER'S MANUAL

SEGA ENTERPRISES, LTD., supported by its high electronic technology of LSIs, microprocessors, etc., and a wealth of experience, has for more than 30 years been supplying various innovative and popular game machines to the world market. This OWNER'S manual is intended to provide detailed comments together with all the necessary information covering the operation in general of electronic assemblies, electromechanicals, servicing control, spare parts, etc. as regards the CRACKDOWN, a new SEGA product. The manual is intended for those who have knowledge of electricity and technical expertise especially in ICs, CRTs, microprocessors, etc. Carefully read so as to acquire sufficient knowledge before working on the machine. Should there be a malfunction, non-technical personnel should under no circumstances touch the interior system.

1. HANDLING PRECAUTIONS

When installing or inspecting, be very careful of the following points and pay attention to ensure that the player can enjoy the game safely.

- Be sure to turn the power off before working on the machine.
- To insert or pull out the plug quickly is dangerous.
- It is necessary to make sure that the power cord or the grounding wire is not exposed on the road, etc. in a manner so as to be dangerous. Make sure that grounding connections are made safely at the position where so specified.
- Do not use any fuse that does not meet the specified rating.
- Make complete connections for the IC board and other connectors. Insufficient insertion is very dangerous.
- For protection of the disk, please remove from machine prior to relocation.

Also, for the IC board circuit inspections, only the logic tone is allowed. The use of a tester is not permitted, so be careful in this regard. After confirming that there are no irregularities, turn the power ON.

2. PREVENTION OF COUNTERFEITING AND CONVERSION

LABELLING

To prevent counterfeits and conversions, the following labels are put on all the SEGA products. When handling such goods, be sure to confirm the labels. They are used to prevent illegal acts such as the unauthorized copying of the products and the printed circuit boards thereof or carrying on business by manufacturing similar merchandise or by converting, selling or using such products or printed circuit boards.

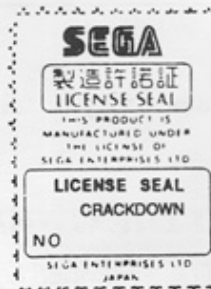
ORIGINAL SEAL

The following seal is put on the machines manufactured by SEGA.



LICENSE SEAL

The following seal is put on the kits, such as the printed circuit boards, of SEGA products.



COPYRIGHT NOTICE

This SEGA product has the copyright notice as follows:

© SEGA 1989

This signifies that this work was disclosed in 1989 and is the property of SEGA ENTERPRISES, LTD

3. PRECAUTIONS CONCERNING THE PLACE OF INSTALLATION

The CRACKDOWN is an indoor game machine. Absolutely do not install it outside. Even indoors, avoid installing in places mentioned below so as to ensure proper usage:

- Places subject to rain or water leakage, or condensation due to humidity.
- In the proximity of an indoor swimming pool and/or shower.
- Places subject to direct sunlight.
- Places subject to heat sources from heating units, etc., or hot air.
- Vicinity of highly inflammable/volatile chemicals or hazardous matter.
- Sloped surfaces.
- Vicinity of anti-disaster facilities such as fire exits and fire extinguishers.
- Places subject to any type of violent impact.
- Dusty places.

4. DISK INSTALLATION

IMPORTANT

INSTALLATION INSTRUCTIONS

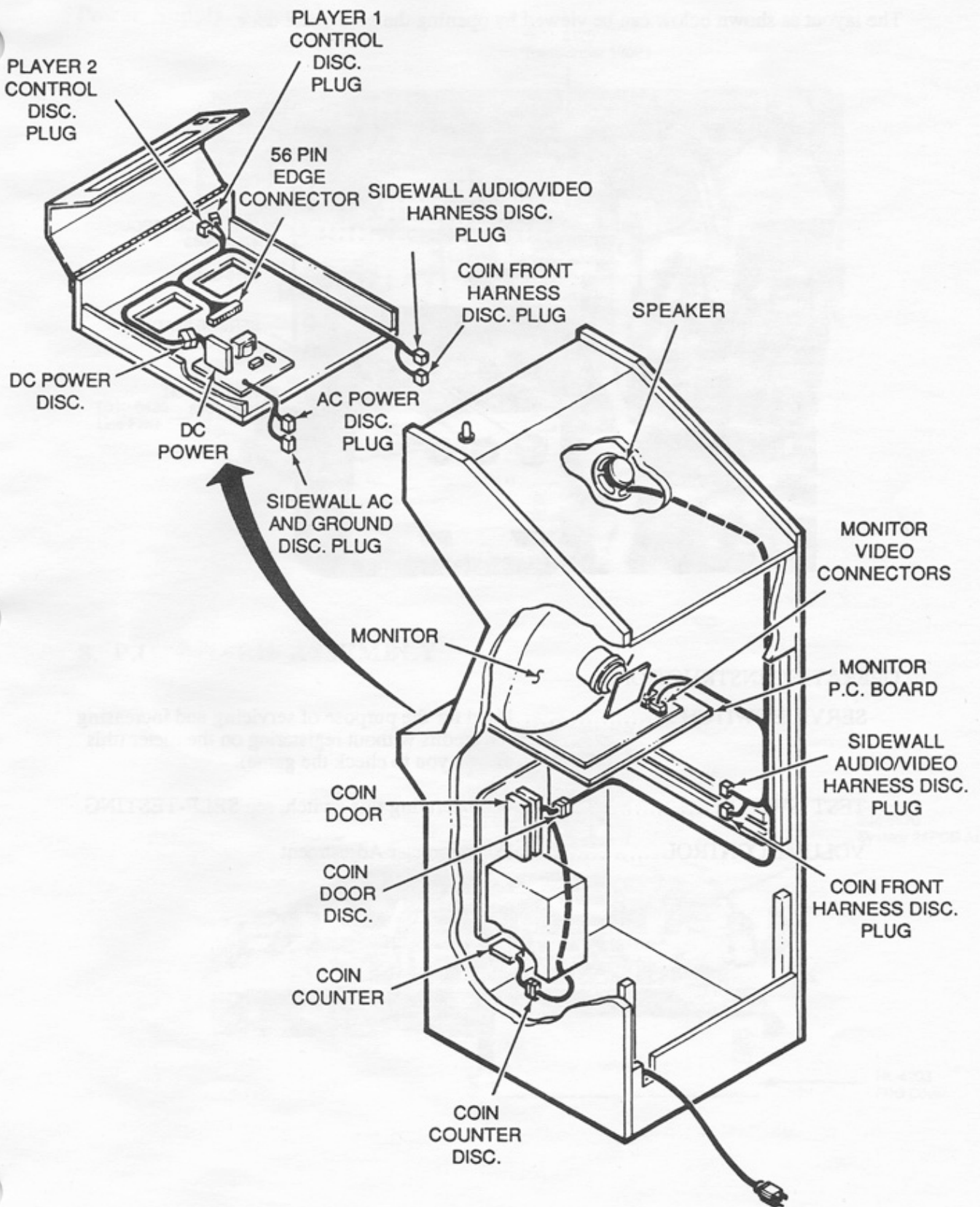
CRACKDOWN contains a revolutionary new memory system for video games. This memory system is a Floppy Disk System which is housed in the RF Cage. This system allows Sega to give you more memory at a cost effective price.

To insure that no damage occurs to this delicate system during transit, we have packaged the Floppy Disk separately which must be installed upon receipt of the game. Please follow the listed instruction for the installation of the disk.

DISK INSTALLATION

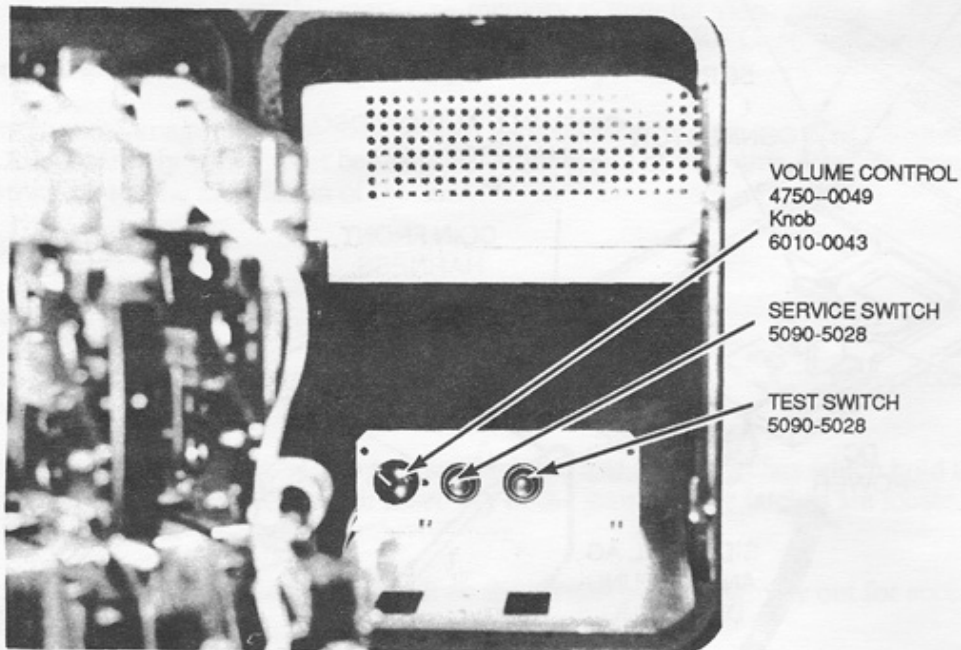
1. Open Coin Door and remove Cash Box.
2. Open Cash Box and remove Floppy Disk. (NOTE: It is housed in a plastic protection cover.)
3. Reach thru the Coin Door opening and unlatch the two spring latches which hold the front assembly securely to the rear assembly of the game. These latches are located on the right, inside of the front assembly.
4. Once the two latches are unlocked, pull on the control panel assembly out for access to PCB RF cage.
5. Remove the cover of the PCB RF Cage by removing the four sheet metal screws.
6. Remove the two screws located on the left side of the wooden base of the PCB Assembly.
7. Lift the right side of the PCB Assembly. This will allow access to the disk drive, which is located underneath the PCB.
8. Remove the disk from the plastic protection case and install it into the disk drive label side up with the metal cover protection slide installed first. The disk should slide in and snap down to indicate that it is securely inserted. Then install cover on FDD unit and secure with two phillips screws provided.
9. Replace the two screws that you removed in Step #6 to secure the Wooden PCB base to the RF Cage.
10. Replace the lid of the RF Cage using the four sheet metal screws that were removed from the assembly in Step #5.
11. Close the control panel and latch.
12. Apply power to the game and verify proper operation. This completes the Drive Assembly.
13. For protection of the disk, please remove it from the machine prior to relocation.

5. NAME OF PARTS (Dynamo HS5 Cabinet Assy)



6. ADJUSTMENT OF THE SERVICE SWITCH

The layout as shown below can be viewed by opening the coin chute door.

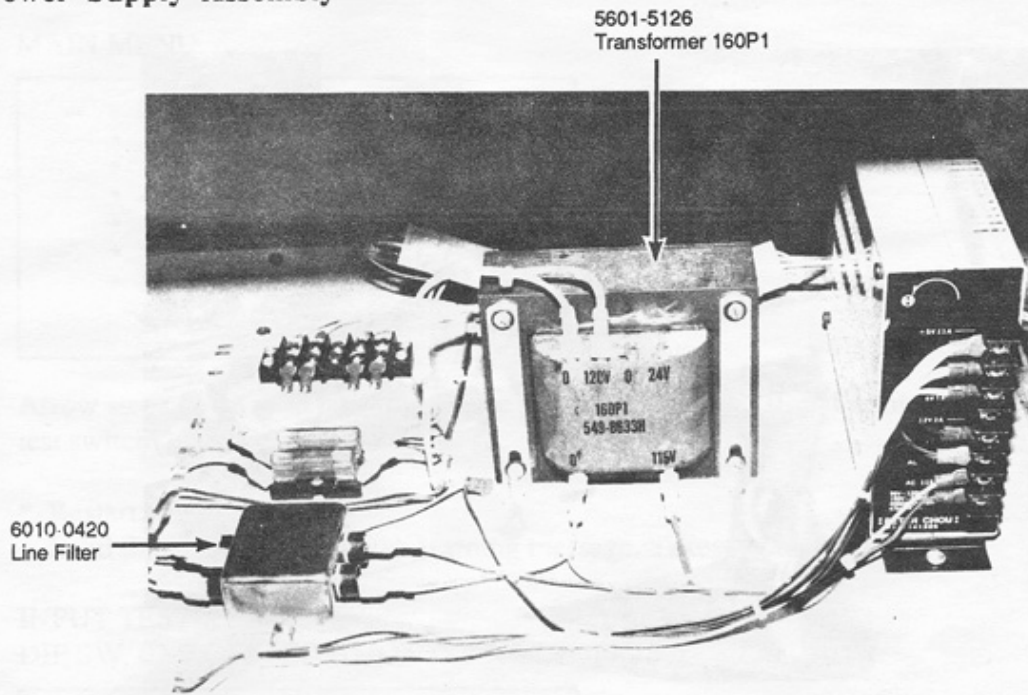


OPERATING INSTRUCTIONS

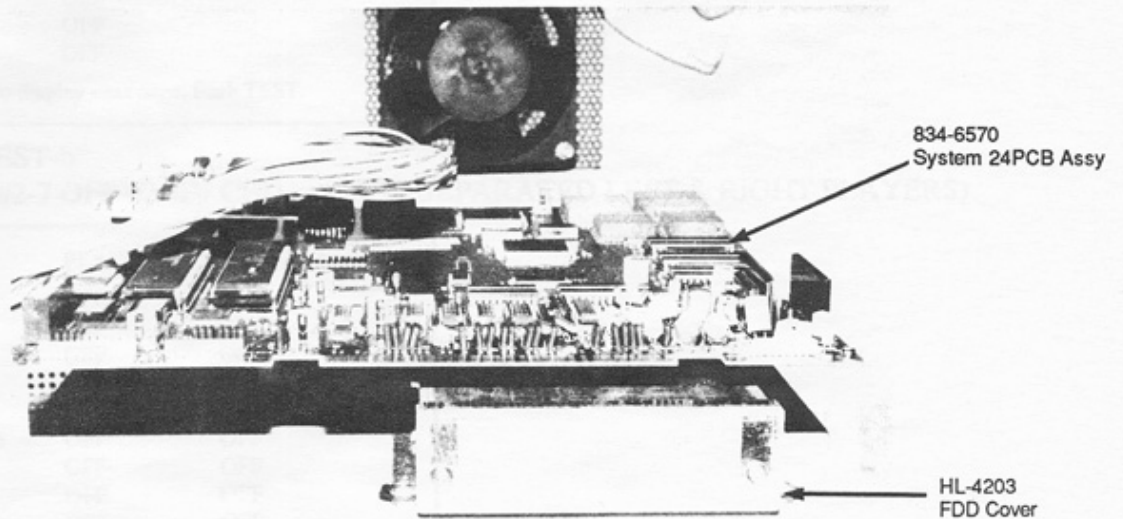
- SERVICE SWITCH Used for the purpose of servicing and increasing the credits without registering on the meter (this allows you to check the game).
- TEST SWITCH For operating this switch, see SELF-TESTING.
- VOLUME CONTROL Potentiometer Adjustment

7. SERVICING THE POWER SUPPLY UNIT AND FUSE

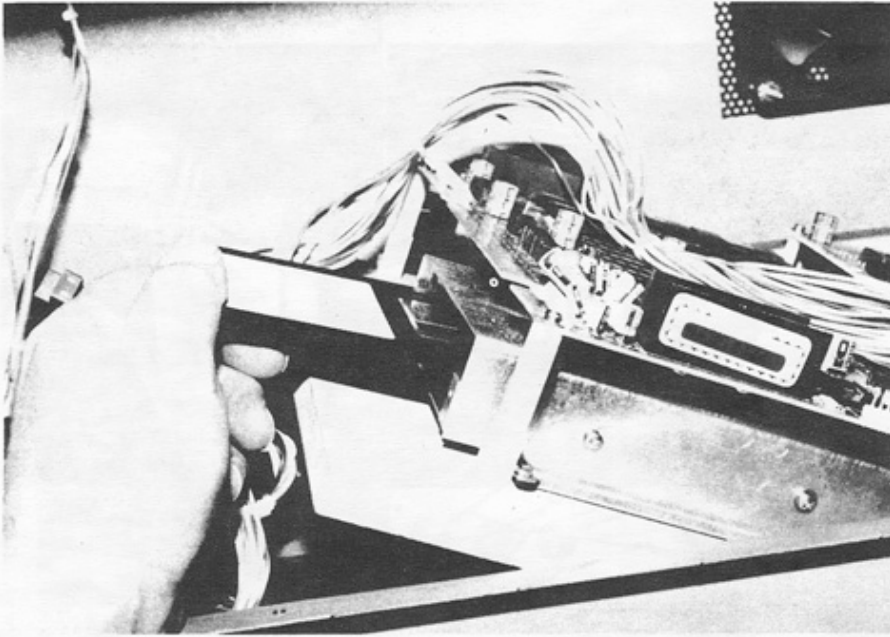
Power Supply Assembly



8. P.C. BOARD ASSEMBLY



9. SERVICING THE FLOPPY DISK



REMOVE THE LID of the SHIELD CASE. Remove the sheet metal and pull out the game board unit in a manner so that both ends of it will meet the shield case. Open the FDD (Floppy Disk Drive) LID by taking off the 2 (M3 x 8) SCREWS when replacing the FLOPPY DISK.

10. CRACK DOWN TEST MODE

To get into test mode, push test switch.

MAIN MENU

→ * RESTART
* INPUT TEST
* BOOKKEEPING
* GAME ADJUSTMENT
* PRICING CONTROL
* TEST PATTERN
* DISK READ TEST
Select by SERVICE and push TEST.

Arrow steps down with pushing service switch to execute test, put arrow at item then push test switch.

* Restart:

Load the game program with warning message. Takes approx. 1 min.

INPUT TEST-a

DIP SW. #2-7 OFF (COMMON COIN SWITCH)

| | PLAYER 1 | PLAYER 2 |
|---------|----------|----------|
| Up | OFF | OFF |
| Down | OFF | OFF |
| Left | OFF | OFF |
| Right | OFF | OFF |
| Attack | OFF | OFF |
| S. Bomb | OFF | OFF |
| Start | OFF | OFF |
| Coin #1 | OFF | |
| Coin #2 | OFF | |
| Service | OFF | |

To display next page, Push TEST.

INPUT TEST-b

DIP SW. #2-7 OFF (COIN CHUTES ARE SEPARATED LEFT & RIGHT PLAYERS)

| | PLAYER 1 | PLAYER 2 |
|-------------|----------|----------|
| Up | OFF | OFF |
| Down | OFF | OFF |
| Left | OFF | OFF |
| Right | OFF | OFF |
| Attack | OFF | OFF |
| S. Bomb | OFF | OFF |
| Start | OFF | OFF |
| Coin | OFF | OFF |
| Service | OFF | OFF |
| All Service | OFF | |

To display next page, Push TEST.

Depends on position of the DIP SW #2-7, screen a or b will be displayed

BOOKKEEPING ①

| | |
|----------------------------------|---|
| Coin Chute #1 | 0 |
| #2 | 0 |
| Service Credits | 0 |
| Total Credits | 0 |
| Number of Games | 0 |
| To display next page, Push TEST. | |

- * Maximum credit registration is "9". If credits are more than 9, game does not accept as 'credit' but will add to number of coin.

BOOKKEEPING ②

| | |
|----------------------------------|-------------|
| Total Game Time | 00H 00M 00S |
| Longest | 00H 00M 00S |
| Shortest | 00H 00M 00S |
| Average | 00H 00M 00S |
| 1 Player | 00H 00M 00S |
| 2 Players | 00H 00M 00S |
| Total Operation Time | 00H 00M 00S |
| Highest Score | Pts. |
| Lowest Score | Pts. |
| Average Score | Pts. |
| To display next page, Push TEST. | |

- * Total game time = (2P time) x 2 + (1P time)
- * Average = total game time + number of games

BOOKKEEPING ③

| | Continue Games |
|----------------------------------|----------------|
| 0 | 0 |
| 1 | 0 |
| 2 | 0 |
| 3 | 0 |
| 4 | 0 |
| 5 | 0 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 0 |
| 12 | 0 |
| 13 | 0 |
| 14 | 0 |
| 15 - OVER | 0 |
| To display next page, Push TEST. | |

BOOKKEEPING ④

| Game Times | |
|--------------|---|
| 0 - 1 MIN. | 0 |
| 1 - 2 MIN. | 0 |
| 2 - 3 MIN. | 0 |
| 3 - 4 MIN. | 0 |
| 4 - 5 MIN. | 0 |
| 5 - 6 MIN. | 0 |
| 6 - 7 MIN. | 0 |
| 7 - 8 MIN. | 0 |
| 8 - 9 MIN. | 0 |
| 9 - 10 MIN. | 0 |
| 10 - 11 MIN. | 0 |
| 11 - 12 MIN. | 0 |
| 12 - 13 MIN. | 0 |
| 13 - 14 MIN. | 0 |
| 14 - 15 MIN. | 0 |
| 15 - OVER | 0 |

To display next page, Push TEST.
To clear data, Push SERVICE.

- * If service SW is pushed to clear data, data ① to ④ will be cleared.
- * Top Score display 1st to 3rd are cleared with this function but rank under 4th are cleared always when power is off.

GAME ADJUSTMENT ①

| | | |
|------------|---------------------|-----------------|
| No Use | [OFF / ON] | (DIP SW. 2-1) |
| No Use | [OFF / ON] | (DIP SW. 2-2) |
| No Use | [OFF / ON] | (DIP SW. 2-3) |
| No Use | [OFF / ON] | (DIP SW. 2-4) |
| No Use | [OFF / ON] | (DIP SW. 2-5) |
| No Use | [OFF / ON] | (DIP SW. 2-6) |
| Coin Chute | [Common/Separate] | (DIP SW. 2-7) |
| Screen | [Normal/Flip] | (DIP SW. 2-8) |

To display next page, Push TEST.

GAME ADJUSTMENT ②

| | |
|---------------------------------|------------------------|
| Install Standard | NO |
| Continue Game | YES |
| Advertise Sound | NO |
| Destroy Each Other | YES |
| Initial Players | 3 |
| Initial M. Guns | 10 |
| Initial Cannons | NO |
| Initial S. Bombs | 1 |
| Initial GAME DIFFICULTY | 5 ✓ |
| | EASY HARD |
| Advance rate of DIFFICULTY | 2 min. for 1 level up. |
| Time Limit | 2 MIN. 30 SEC. |
| Player Extend Score | 50000 |
| Eliminate ranking every (plays) | 2000 |

To change values, push 1P ATTACK or S. Bomb.
Select by SERVICE.
To display next page, Push TEST.

- * Highlight bar shows current setting
- * Green displays are default settings
- * Push service switch to select items
- * Push test switch to save data
- * Destroy each other.
Yes: players can fight each other
- * Initial players: selectable 1 to 9
- * Initial M. Guns/Initial Cannons selectable 0 to 9 (10 step)
- * Initial S. Bombs: select 0 to 4
- * Initial game difficulty: select 1 to 8 (1 easiest, 8 hardest)
- * Advance rate of difficulty: progressive difficulty each 1, 2, 3, 5, 7, 10 min, or no.

- * Time limit: select 2m 10s, 2m 20s, 2m 30s, 2m 40s, 2m 50s, or 3m.
- * Player extend score: bonus player score
- * Eliminate ranking player: number of games to clear player ranking.

PRICING CONTROL-a
DIP SW. #2-7 OFF

| Coin SW. #1 | Coin SW. #2 |
|--|--|
| DIP 1-1 OFF DIP 1-2 OFF DIP 1-3 OFF DIP 1-4 OFF | DIP 1-5 OFF DIP 1-6 OFF DIP 1-7 OFF DIP 1-8 OFF |
| 1 COIN 1 CREDIT | 1 COIN 1 CREDIT |

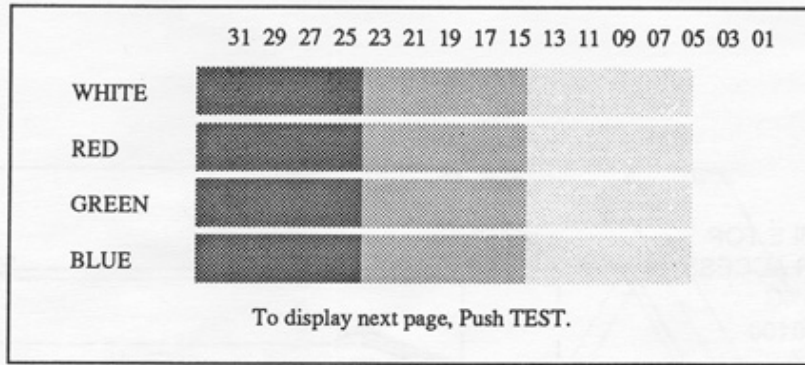
To display next page, Push TEST.

PRICING CONTROL-b
DIP SW. #2-7 ON

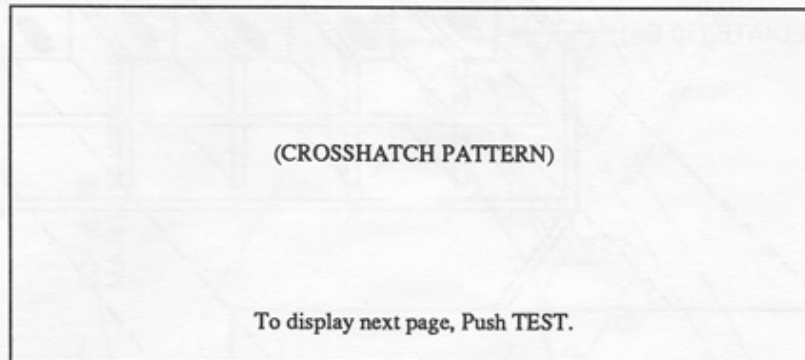
| Coin SW. | — |
|--|--|
| DIP 1-1 OFF DIP 1-2 OFF DIP 1-3 OFF DIP 1-4 OFF | DIP 1-5 OFF DIP 1-6 OFF DIP 1-7 OFF DIP 1-8 OFF |
| 1 COIN 1 CREDIT | — |

To display next page, Push TEST.

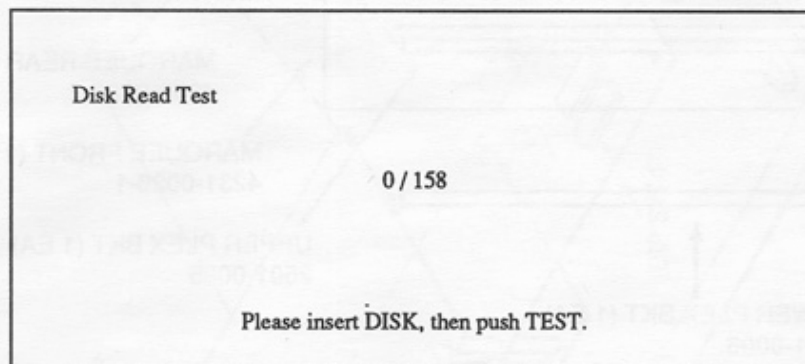
TEST PATTERN ①



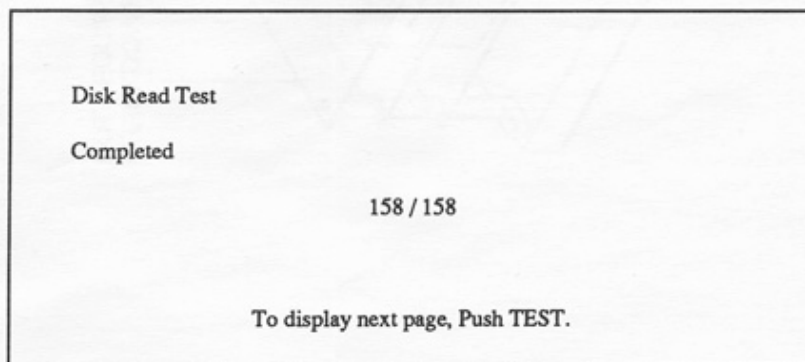
TEST PATTERN ②



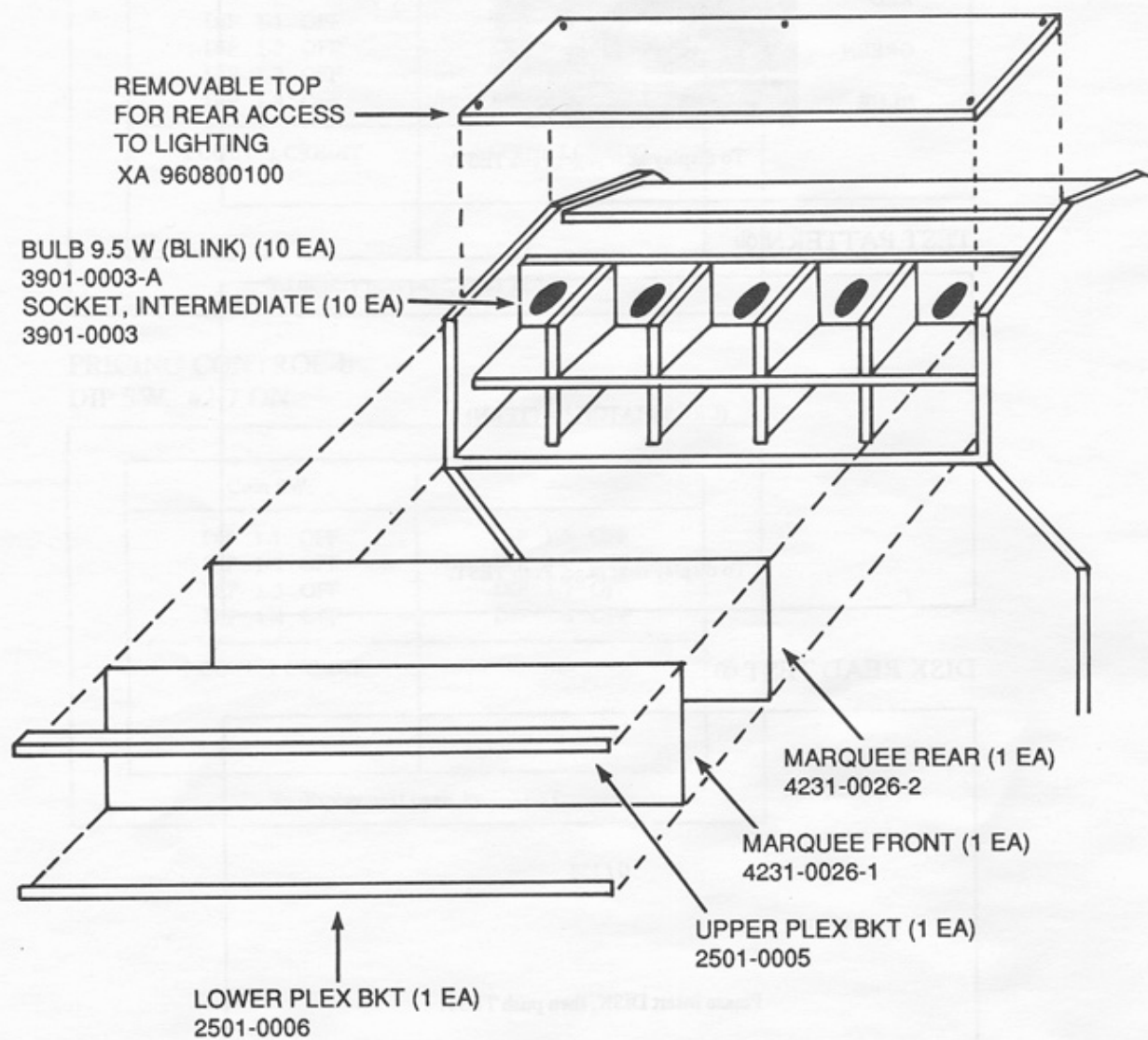
DISK READ TEST ①



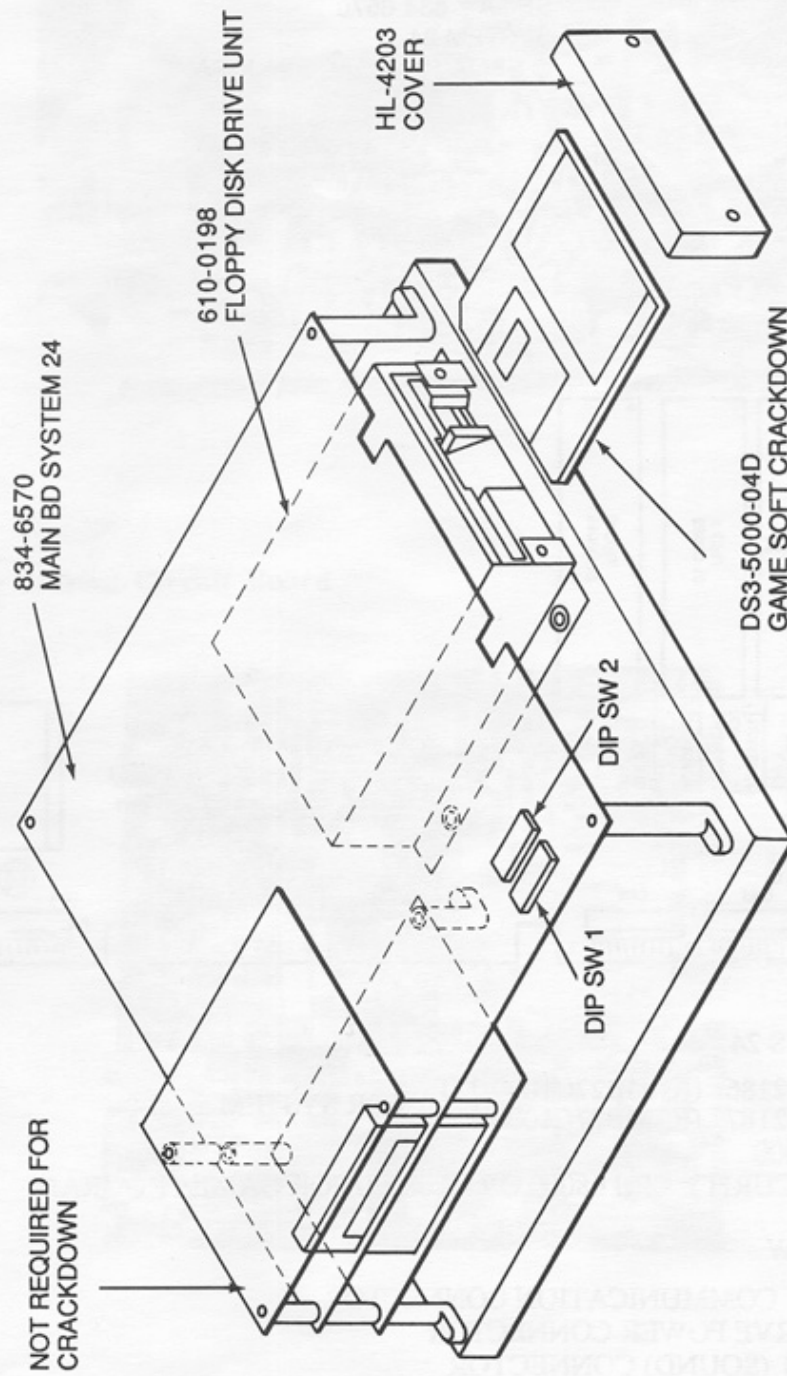
DISK READ TEST ②



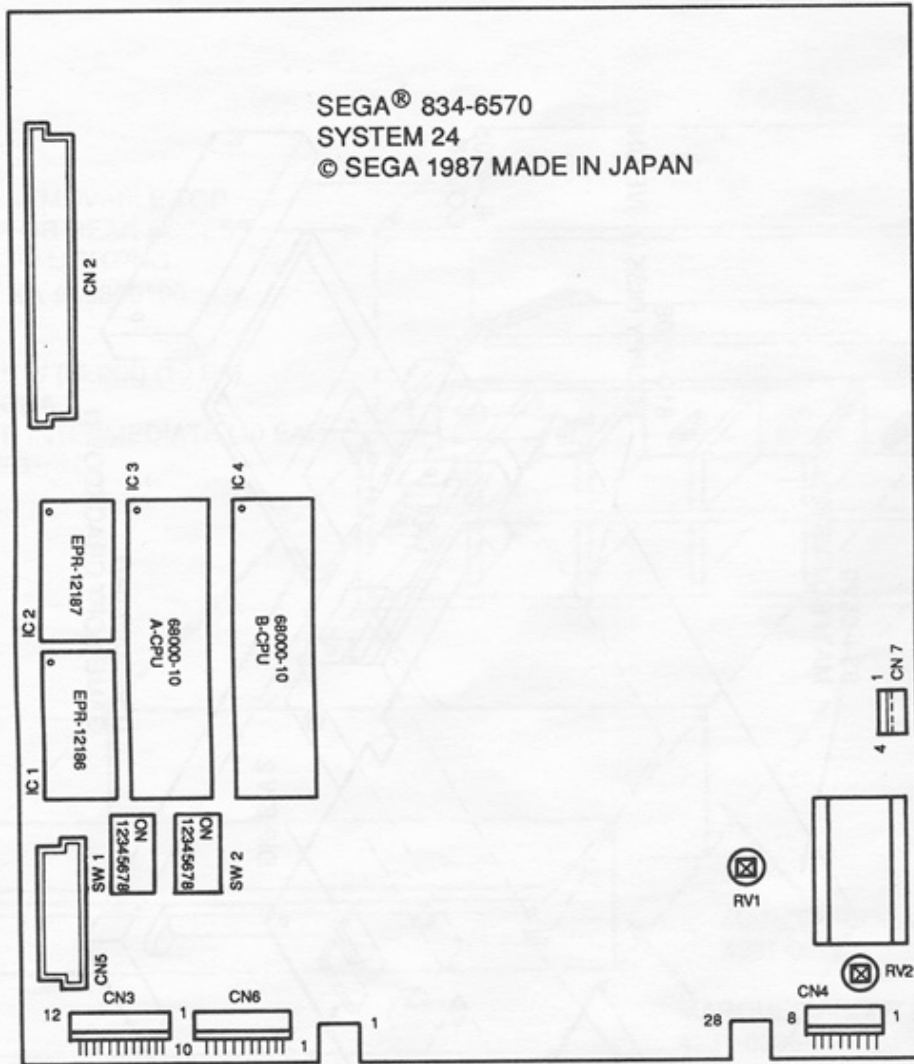
MARQUEE LIGHTING



11. DRAWING OF PC ASSEMBLY



12. PC BOARD COMPONENT LOCATIONS



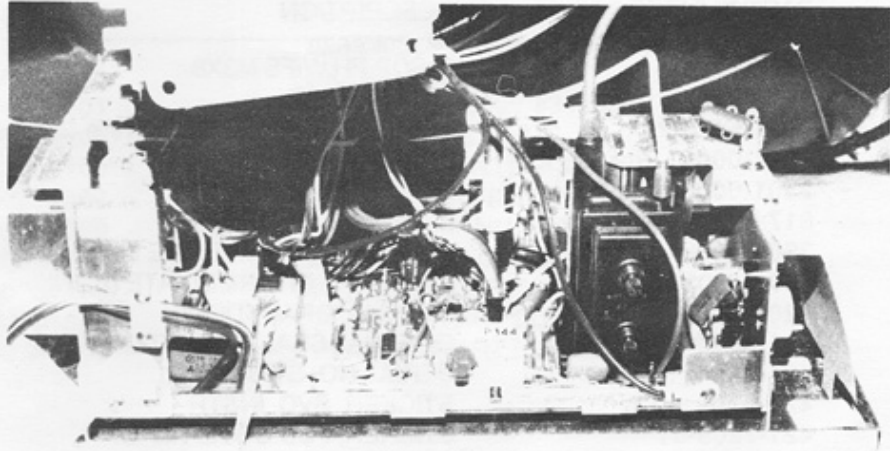
MAIN BD SYS 24

- IC 1 EPR-12186 (IC MB27C1000-15) FOR SYSTEM
- IC 2 EPR-12187 (IC MB27C1000-15) FOR SYSTEM
- IC 3 IC 68000
- IC 4 IC SECURITY CPU 68000 OR IC 68000 FOR GAME PROGRAM

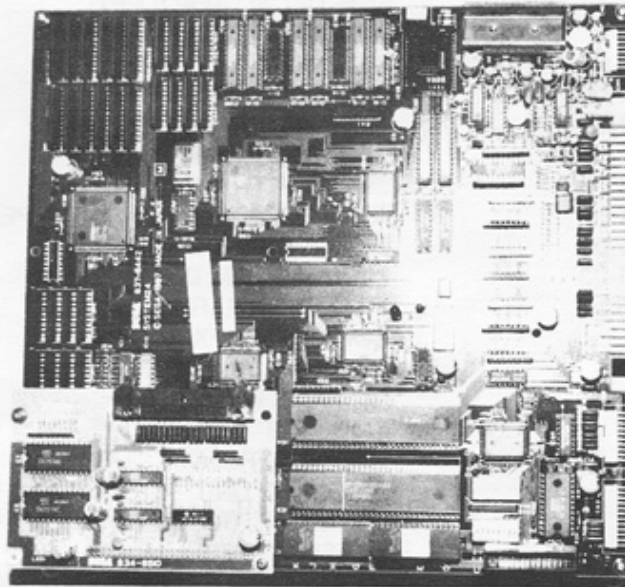
- SW 1 DIP SW
- SW 2 DIP SW
- CN 3 DATA COMMUNICATION CONNECTOR
- CN 6 RESERVE POWER CONNECTOR
- CN 7 INPUT (SOUND) CONNECTOR
- CN 8 HEADPHONE OUTPUT CONNECTOR
- RV 1 MAIN SOUND VOLUME
- RV 2 HEADPHONE SOUND VOLUME

13. MONITOR ADJUSTMENT AND GAME BOARD SERVICING

Monitor Adjustment



Crackdown Printed Circuit Board



834-6570
SYS 24 PCB

14. PARTS LIST

SEGA SUPPLIED COMPONENTS

| PART NUMBER | DESCRIPTION | QTY |
|--------------|--------------------------------------|-----|
| 000-0308-FS | M SCR PH W/FS M3X8 | 10 |
| 117-5123 | NAME PLATE | 1 |
| 2001-5125-24 | MONITOR, 25" MED RES (Wells-Gardner) | 1 |
| 2501-0005 | UPPER PLEX BKT, SS | 1 |
| 2501-0006 | LOWER PLEX BKT, SS | 1 |
| 317-0058-4D | IC SECURITY, 68000 | 1 |
| 3901-0003 | SOCKET, INTERMEDIATE L MOUNT | 10 |
| 3901-0003-A | BULB 9.5W INTERMEDIATE (BLINK) | 10 |
| 4201-0006 | MANUAL, CRACKDOWN | 1 |
| 421-5800-98 | ORIGINAL SEAL, CRACKDOWN | 1 |
| 421-6594 | SERIAL NO. STICKER | 1 |
| 421-6709 | STICKER, SVC. INSTR | 1 |
| 421-7209-01 | STICKER, FDD COVER ENG. | 1 |
| 4211-0004 | STICKER, SW UNIT (KRO-1721) | 1 |
| 4211-6120 | STICKER, SEGA USA | 1 |
| 4231-0026-1 | MARQUEE, CRACKDOWN (FRONT) | 1 |
| 4231-0026-2 | MARQUEE, CRACKDOWN (REAR) | 1 |
| 4231-0027 | MONITOR CARD, CRACKDOWN | 1 |
| 4231-0028-1 | CONTROL PANEL OVERLAY CD | 1 |
| 4231-0028-2 | DECAL, CONTROL PANEL (LEFT) | 1 |
| 4231-0028-3 | DECAL, CONTROL PANEL (RIGHT) | 1 |
| 4231-0029-A | SIDE DECAL, TOP (LEFT) | 1 |
| 4231-0029-B | SIDE DECAL, TOP (RIGHT) | 1 |
| 4231-0029-C | SIDE DECAL, CENTER | 2 |
| 4231-0029-D | SIDE DECAL, BOTTOM | 2 |
| 4231-0029-E | SIDE DECAL, CRACKDOWN | 2 |
| 4750-0049 | RHEOSTAT, 100 OHM 10W | 1 |
| 5090-5028 | SWITCH, PB MOM. | 2 |
| 5091-0001 | JOY STICK 8 WAY (SPRING TYPE) | 2 |
| 5091-0005-01 | PUSHBUTTON, RED (MS) | 2 |
| 5091-0005-03 | PUSHBUTTON, BLU (MS) | 2 |
| 5601-5126 | TRANSFORMER, 160P1 | 1 |
| 600-5661 | CONN, FEM 4PX2 | 1 |
| 600-5672 | ASSY, FEM/FL CA 34P | 1 |
| 601-6073 | RUBBER GROMMET | 4 |
| 6010-0043 | KNOB, 1/8" SHAFT | 1 |
| 6010-0420 | LINE FILTER, 5A | 1 |
| 610-0198 | ASSY, FDD UNIT | 1 |
| 834-6570 | GAME PCB, SYSTEM 24 | 1 |
| 839-0141 | FILTER BOARD | 1 |
| DS3-5000-04D | GAME SOFTWARE, CRACKDOWN | 1 |
| HL-4202 | FDD BASE | 1 |
| HL-4203 | FDD COVER | 1 |
| HL-4204 | FDD LID | 1 |
| HL-4205 | SASH RUBBER 110 | 1 |
| HL1-4101 | SHIELD CASE | 1 |
| HL1-4102 | SHIELD LID | 1 |
| KRO-1721 | SERVICE SWITCH BRKT | 1 |

DYNAMO SUPPLIED COMPONENTS

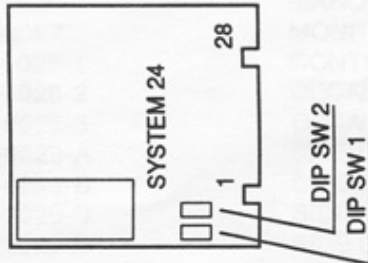
| PART NUMBER | DESCRIPTION | QTY |
|-------------|--------------------------------|-----|
| XA800001300 | COVER, SPEAKER | 1 |
| XA800801800 | PANEL, CONTROL HS5 (CRACKDOWN) | 1 |
| XA880000201 | POWER SUPPLY 5V 11A, 12V 2A | 1 |
| XA880000301 | HOLDER, FUSE #S-8202-2 | 1 |
| XA880000501 | FUSE, 7 AMP 250V #312007 | 1 |
| XA880000600 | SPEAKER, 5" 8 OHMS | 1 |
| XA880001100 | HOUSING, COIN (10-1397-09) | 1 |
| XA890001500 | LEVELER, LEG (331517) | 4 |
| XA911500100 | GLASS, TEMP NM 1/4X25.75X25.75 | 1 |
| XA990001400 | ASSY, POWER CORD | 1 |
| XA880301400 | SWITCH, ON/OFF | 1 |
| XA860301600 | 1 PLAYER START BUTTON | 1 |
| XA860301700 | 2 PLAYER START BUTTON | 1 |

CRACKDOWN (834-6570-04~)

COIN/CREDIT OPTION SWITCH SETTING

| OPTION | DIP SW #1 | | | | | | | |
|-----------|-----------|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 COIN | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| 2 CREDITS | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| 3 CREDITS | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF |
| 4 CREDITS | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF |
| 5 CREDITS | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF |
| 6 CREDITS | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF |
| 1 CREDIT | ON | ON | ON | ON | ON | ON | ON | ON |
| 2 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 3 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 4 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 2 COINS | ON | ON | ON | ON | ON | ON | ON | ON |
| 4 COINS | ON | ON | ON | ON | ON | ON | ON | ON |
| 1 COIN | OFF | OFF | ON | ON | ON | ON | ON | ON |
| 2 COINS | OFF | OFF | ON | ON | ON | ON | ON | ON |
| 3 COINS | OFF | OFF | ON | ON | ON | ON | ON | ON |
| 4 COINS | OFF | OFF | ON | ON | ON | ON | ON | ON |
| 5 COINS | OFF | OFF | ON | ON | ON | ON | ON | ON |
| 6 CREDITS | OFF | OFF | ON | ON | ON | ON | ON | ON |
| 1 CREDIT | ON | ON | ON | ON | ON | ON | ON | ON |
| 2 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 3 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 4 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 5 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 6 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 1 CREDIT | ON | ON | ON | ON | ON | ON | ON | ON |
| 2 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 3 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 4 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 5 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 6 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 1 CREDIT | ON | ON | ON | ON | ON | ON | ON | ON |
| 2 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 3 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 4 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 5 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| 6 CREDITS | ON | ON | ON | ON | ON | ON | ON | ON |
| FREE PLAY | ON | ON | ON | ON | ON | ON | ON | ON |

BARE BD NO.
171-5553 ~



OPTION SWITCH SETTING

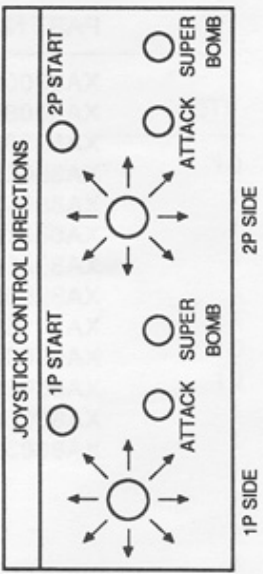
| OPTION | DIP SW #2 | | | | | | | |
|------------|-----------|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| NOT USED | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| COIN CHUTE | SINGLE | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| | | ON | ON | ON | ON | ON | ON | ON |
| MONITOR | NORMAL | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| | | ON | ON | ON | ON | ON | ON | ON |

★ Set the game difficulty levels, etc., in the TEST MODE.

15. ADJUSTMENT INSTRUCTION SWITCH SETTING CHART

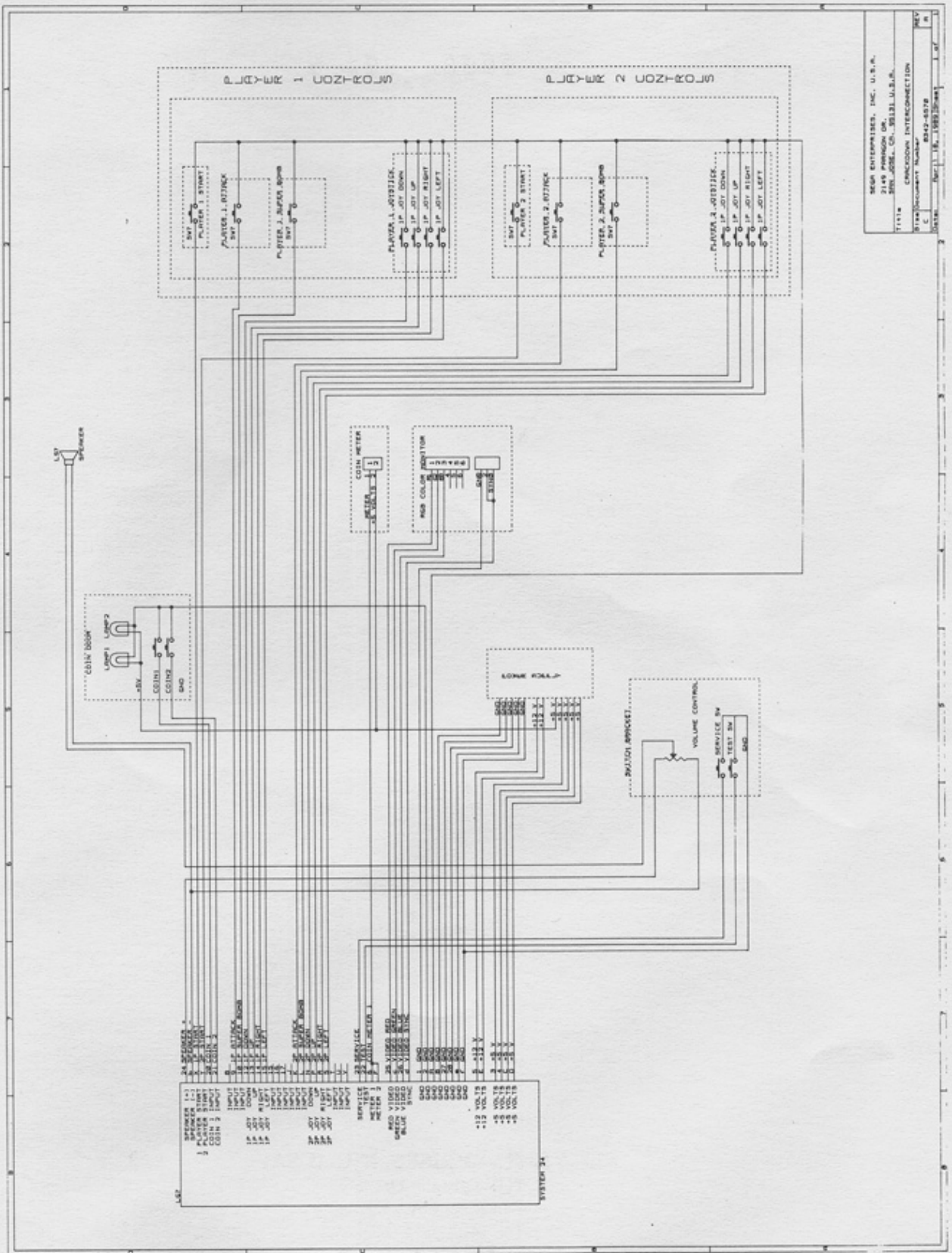
| PIN ASSIGNMENT | COMPONENT SIDE | SOLDER SIDE |
|----------------|----------------|---------------|
| 1 | GND | GND |
| 2 | GND | GND |
| 3 | +5V | +5V |
| 4 | +5V | +5V |
| 5 | +12V | +12V |
| 6 | COIN METER 1 | COIN METER 2 |
| 7 | (NOT USED) | (NOT USED) |
| 8 | (NOT USED) | (NOT USED) |
| 9 | 1P ATTACK | 2P ATTACK |
| 10 | 1P SUPER BOMB | 2P SUPER BOMB |
| 11 | (NOT USED) | (NOT USED) |
| 12 | 1P DOWN | 2P DOWN |
| 13 | 1P UP | 2P UP |
| 14 | 1P RIGHT | 2P RIGHT |
| 15 | 1P LEFT | 2P LEFT |
| 16 | (NOT USED) | (NOT USED) |
| 17 | (NOT USED) | (NOT USED) |
| 18 | (NOT USED) | (NOT USED) |
| 19 | (NOT USED) | (NOT USED) |
| 20 | COIN 1 | 1P START |
| 21 | COIN 2 | 2P START |
| 22 | TEST | (NOT USED) |
| 23 | SERVICE | (NOT USED) |
| 24 | SPEAKER (+) | SPEAKER (-) |
| 25 | RED | GREEN |
| 26 | BLUE | CMP. SYNC |
| 27 | GND | GND |
| 28 | GND | GND |

56P P : 3.96mm



421-7441--01

16. SCHEMATIC DIAGRAM



SEGA ENTERPRISES, INC. U.S.A.
 2149 PAVANON DR.
 BELLEVILLE, O. 45311 U.S.A.
 TITLE: COIN-O-MATIC INTERCONNECTION
 DRAWING NUMBER: 8242-8578
 DATE: DEC. 18, 1982

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