CONTENTS

- RECOMMENDED WIRING DIAGRAM
- WIRING ROUTING (MAIN HARNESS)
- WIRING ROUTING (CONTROL PANEL HARNESS)
- OPTION SWITCHES / DC POWER REQUIREMENTS
- KIT CONTENTS
CONVERSION KIT CONTENTS

- PC Board
- Generic Main Wiring Harness
- Control Panel Wiring Harness
- 8 Way Joystick Assembly
- Screws and Nuts for Joystick (4)
- Push Button Assemblies (6)
- Control Panel Overlay
- Monitor Card
- Side Decals (2)
- Plastic Marquee
- Instruction Manual
- License Seal
PREVENTION OF COUNTERFEITING AND CONVERSION

LABELING

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 1985

This signifies that this work was disclosed in 1985 and is the property of SEGA ENTERPRISES, LTD.
NOTICE WARNING

After installation of this kit, the 5 volt power supply must be checked and adjusted to make certain exactly 5 volts are present at pins 1 & 3 (1 is negative and 3 is positive) of the 44 pin edge connector. The voltage check and adjustment must be done while the PCB is plugged in to the 44 pin connector to supply the proper load. This PCB will not operate properly on voltages below 5 volts as measured at the board.
CONTROL PANEL HARNESS
### CHOPLIFTER (834 - 5795)

#### Coin / Credit Option Switch Setting vs. DIP Switch #A

<table>
<thead>
<tr>
<th>Option</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Coin 1 Credit</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>1 Coin 2 Credits</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>1 Coin 3 Credits</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>1 Coin 4 Credits</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>1 Coin 5 Credits</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>1 Coin 6 Credits</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>2 Coins 1 Credit</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>2 Coins 2 Credits</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>2 Coins 3 Credits</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>2 Coins 4 Credits</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>3 Coins 1 Credit</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>3 Coins 2 Credits</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>3 Coins 3 Credits</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>3 Coins 4 Credits</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>4 Coins 1 Credit</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>4 Coins 2 Credits</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>4 Coins 3 Credits</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>4 Coins 4 Credits</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
</tr>
</tbody>
</table>

#### Coin Switch #1 vs. Coin Switch #2

#### DIP Switches

- **DIP SW A**
  - Coin Switch #1
  - Coin Switch #2

- **DIP SW B**

### Component Side vs. Solder Side

- **Component Side**
  - GND
  - BLUE
  - RED
  - SPEAKER
  - TEST SW.
  - COIN SW. 1
  - COIN SW. 2
  - 1P LEFT
  - 1P RIGHT
  - 1P UP
  - 1P DOWN
  - NOT USED
  - 2P STRAFFING OR BOMBING
  - 2P DIRECTION CHANGE

- **Solder Side**
  - GND
  - CMP SYNC
  - GREEN
  - SPEAKER
  - NOT USED
  - 1P LEFT
  - 1P RIGHT
  - 1P UP
  - 1P DOWN
  - NOT USED
  - 2P STRAFFING OR BOMBING
  - 2P DIRECTION CHANGE

### Supply Voltages & Current

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC 5V</td>
<td>4.5 A</td>
</tr>
<tr>
<td>DC 12V</td>
<td>0.25 A</td>
</tr>
</tbody>
</table>

#### Joystick Control Directions

- **strafring or bombing**
- **direction change**

---

**Bare BD No.**

- 171-5303
- 171-5054-03