INSTRUCTION MANUAL

FOR HORIZONTALLY MOUNTED MONITOR

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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.
CHOPLIFTER WIRE ROUTING
CONTROL PANEL HARNESS
### CHOPLIFTER (834 - 5795)

#### Coin / Credit Option Switch Setting

<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>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>1 Coin 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>1 Coin 6 Credits</td>
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<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>1 Coin 8 Credits</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>2 Coins 1 Credit</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>2 Coins 2 Credits</td>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>2 Coins 3 Credits</td>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
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<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>2 Coins 4 Credits</td>
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<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
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<tr>
<td>2 Coins 6 Credits</td>
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<td>ON</td>
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<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>2 Coins 8 Credits</td>
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<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
</tbody>
</table>

#### Dip Switch #A

- Dip SW A
- Dip SW B

#### Dip Switch #B

- Dip SW A
- Dip SW B

#### Component Side

- GND
- BLUE
- RED
- SPEAKER
- SERVICE SW.
- TEST SW.
- COIN SW. 2
- COIN SW. 1
- IP START
- IP LEFT
- IP RIGHT
- IP UP
- IP DOWN
- NOT USED
- IP STRAFING OR BOMBING
- IP DIRECTION CHANGE
- NOT USED
- +12V
- COIN METER 1
- +5V
- COIN METER 2
- GND

#### Connector P = 3.96mm

#### Solder Side

- GND
- CMP SYNC
- GREEN
- SPEAKER
- NOT USED
- NOT USED
- IP START
- IP LEFT
- IP RIGHT
- IP UP
- IP DOWN
- NOT USED
- NOT USED
- NOT USED
- NOT USED
- NOT USED
- NOT USED
- NOT USED
- NOT USED
- NOT USED

#### Joystick Control Directions

- STRAFING OR BOMBING
- DIRECTION CHANGE

#### Supply Voltages & Current

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC5V</td>
<td>4.5 A</td>
</tr>
<tr>
<td>DC12V</td>
<td>0.25 A</td>
</tr>
</tbody>
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BARE BD No. 171-5303

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BARE BD No. 171-5054-03