MIDWAY'S

SPACE INVADERS

DELUXE

PARTS AND
OPERATING MANUAL

NO. 852 UP-RIGHT
NO. 870 COCKTAIL

MIDWAY MFG. CO.
A BALLY COMPANY
10750 WEST GRAND AVENUE
FRANKLIN PARK, ILLINOIS 60131
U.S.A.

PHONE: (312) 451-1360  CABLE ADDRESS: MIDCO  TELEX NO.: 72-1596
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### WARNING

THIS GAME MUST BE GROUNDED. FAILURE TO DO SO MAY RESULT IN DESTRUCTION TO ELECTRONIC COMPONENTS.

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FOR PERMISSION REQUESTS, WRITE: MIDWAY MFG. CO., 10750 W. GRAND AVE., FRANKLIN PARK, IL 60131
GENERAL INSTRUCTIONS FOR "DELUXE SPACE INVADERS"

INSTALLATION

1. Remove shipping cleats located on bottom of cabinet.
2. Install 4 provided leg levelers to bottom of cabinet and level cabinet.
3. The power is controlled by a switch located on top of the cabinet. Plug into A.C. only, 115 volts, 60 cycles. In low line areas (105 volts or less), a boost in the output voltage of the transformer may be obtained by removing the wire from the 115 volt tap of the transformer and rewiring it to the 105 volt position.

VOLTAGE CONTROL POTS

Located on power supply board (P.C. A082-90400-H000) and are preset at the factory. These pots should not be tampered with unless the Distributor Service Department is contacted.

MASTER VOLUME CONTROL

Located on game logic board (P.C. A064-90700-A852) controls the volume of all sounds and may be varied as desired by rotating pots.

ADJUSTMENT SWITCHES

Located on game logic board (A084-90700-A852) and may be adjusted as indicated on separate instruction sheet in back box area.

TO REMOVE CONTROL PANEL FOR SERVICE

1. Open coin box door.
2. Unplug control panel jack located to the left of coin box opening.
3. Unlatch (2) clamps located on each side of cabinet.
4. Remove control panel for service.

HIGH SCORE AND NAME DISPLAY PROGRAM

1. Place switch #2 located on Game Logic Board (P.C. A084-90700-A852) in "OFF" position.
2. Close coin switch to display one credit on screen.
3. Depress One Player Select Button, "Preset Mode" will be displayed on screen.
4. Depress One Player Select Button again to increase score until previous Hi Score is beaten.
5. Depress Fire Button to start game. When all laser bases have been destroyed, the alphabet will be displayed on the screen. A new name may now be programmed on the screen as indicated by Instructions on Control Panel.
6. Place switch #2 located on Game Logic Board (P.C. A084-90700-A852) in "ON" position to reestablish game mode.

NOTE: To reset Hi-Score (to 5000) and Name Display, depress "ON-OFF" switch.
GENERAL INSTRUCTIONS FOR DELUXE "SPACE INVADERS" COCKTAIL TABLE

INSTALLATION
1. Remove shipping cleats located on bottom of cabinet.
2. Install four (4) provided leg levelers to bottom of cabinet and level cabinet.
3. The power is controlled by a switch located on the bottom of the cabinet. Plug into A.C. only, 115 volts, 60 cycles. In low line areas (105 volts or less), a boost in the output voltage of the transformer may be obtained by removing the wire from the 115 volt tap of the transformer and rewiring it to the 105 volt position.

VOLTAGE CONTROL POTS
Located on Power Supply Board (P.C. A082-90400-H000) and are preset at the factory. These pots should not be tampered with unless the Distributor Service Department is contacted.

MASTER VOLUME CONTROL
Located on Game Logic Board (P.C. A084-90700-A852) controls the volume of all sounds and may be varied as desired by rotating pot.

ADJUSTMENT SWITCHES
Located on Game Logic Board (P.C. A084-90700-A852) and may be adjusted as indicated on separate instruction sheet in cabinet.

VOLUME CONTROL
Adj. SW.
P. C. A084-90700-A852

LINE VOLTAGE SAFETY SWITCH
A line voltage safety switch has been provided for your protection. It is located in the cabinet on the left side of the coin door. When the coin door is opened the circuit to the line voltage is interrupted. To restore power (when servicing), pull switch fully out.

TO SERVICE GAME LOGIC BOARD
The game logic board assembly is easily serviced by removing rear access door panel.

HIGH SCORE AND NAME DISPLAY PROGRAM
1. Place switch #2 located on Game Logic Board (P.C. A084-90700-A852) in “OFF” position.
2. Close coin switch to display one credit on screen.
3. Depress One Player Select Button. “Preset Mode” will be displayed on screen.
4. Depress One Player Select Button again to increase score until previous Hi Score is beaten.
5. Depress Fire Button to start game. When all laser bases have been destroyed, the alphabet will be displayed on the screen. A new name may now be programmed on the screen as indicated by instructions on Control Panel.
6. Place switch #2 located on Game Logic Board (P.C. A084-90700-A852) in “ON” position to reestablish game mode.

NOTE: To reset Hi Score (to 5,000) and Name Display, depress “ON-OFF” switch.

TO SERVICE MONITOR
1. Open coin box door.
2. Release two clamps located above coin door opening. CAUTION: NEVER RELEASE CLAMPS UNLESS THE LINE VOLTAGE IS INTERRUPTED VIA SAFETY SWITCH.
3. Rotate top panel on its hinges to an upright position.
4. Place Monitor Support Bracket (located on left cabinet wall) in provided hole in monitor chassis.
5. To restore power to monitor, pull safety switch fully out.
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<td>OFF</td>
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<tr>
<td>SW. 6</td>
</tr>
<tr>
<td>ON</td>
</tr>
<tr>
<td>SW. 7</td>
</tr>
<tr>
<td>ON</td>
</tr>
</tbody>
</table>

| COCKTAIL MODEL                            |
| OFF                                       |
| SW. 5                                     |
| OFF                                       |

NOTE: SWS. 3 AND 8 ARE NOT USED THERE IS NO RAM/ROM TEST

M051-00352-A005
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<td>0852-00901-01XF</td>
<td>SEE THRU DISPLAY – 25-5/16&quot; x 24-7/8&quot; x 3/16&quot;</td>
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<tr>
<td>2</td>
<td>0537-00903-0015</td>
<td>GLASS CHANNEL 24-1/4&quot; LG.</td>
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<td>GLASS CHANNEL 26-1/4&quot; LG. (2 REQ'D.)</td>
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<td>0017-00104-0022</td>
<td>#8 WASHER (6 REQ'D.)</td>
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<td>0017-00103-0061</td>
<td>#8 - 32 HEX LOCKNUT SEMS. (6 REQ'D.)</td>
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<td>8</td>
<td>A739-00012-0000</td>
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<tr>
<td>9</td>
<td>A090-00002-2001</td>
<td>DOUBLE ENTRY COIN DOOR ASSY.</td>
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<td>0017-00003-0102</td>
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<td>BLK. SPEAKER GRILL W/4 1-1/2&quot; SCR.</td>
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<td>6&quot; x 9&quot; SPEAKER 8 OHM, 9W.</td>
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<td><strong>NOT SHOWN LIST</strong></td>
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<td>0017-00009-0033</td>
<td>BASSICK CLAMP (2 REQ'D.)</td>
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<td>0603-00131-0000</td>
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<td>MIRROPAKE MIRROR 24-13/16 x 23-3/4 x 1/4</td>
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<td>0739-00102-0000</td>
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<td>0739-00905-0000</td>
<td>CARDBOARD BEZEL</td>
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<td>0739-00906-0000</td>
<td>SCREEN OVERLAY 13&quot; x 4-1/2&quot;</td>
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<td>0017-00003-0225</td>
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<td>0017-00003-0212</td>
<td>19&quot; MONITOR CHASSIS W/YOKE</td>
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<td>0592-00104-0100</td>
<td>CHASSIS MTG. BRKT. – R.H.</td>
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<td>CHASSIS MTG. BRKT. – L.H.</td>
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<td>0161-00100-0000</td>
<td>T.V. MTG. WASHER (4 REQ'D.)</td>
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<td>#8 · 32 x 1-1/4 CARRIAGE BOLT (4 TUBE, 4 CHASSIS)</td>
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<td>#8 WASHER (4 TUBE, 4 CHASSIS)</td>
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<td>0624-00902-0300</td>
<td>P.C. SUPPORT BRKT. – 2-1/2&quot; (4 REQ'D.)</td>
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<td>A852-00010-0000</td>
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<td>25</td>
<td>A852-00018-0000</td>
<td>MASTER CABLE ASSY'</td>
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<td>ON-OFF SWITCH</td>
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<td>0567-00106-0100</td>
<td>SWITCH MTG. BRKT.</td>
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A BALLY COMPANY
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<td>1</td>
<td>0017-00003-0046</td>
<td>18” FLUORESCENT LAMP (BLACK LIGHT)</td>
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<td>2</td>
<td>0017-00021-0005</td>
<td>FLUORESCENT LOCKS (2 REQ’D.)</td>
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<td>3</td>
<td>0017-00031-0036</td>
<td>LAMP HOLDERS (2 REQ’D.)</td>
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<td>0017-00101-0573</td>
<td>#6 - 32 x 1/2 SLT. RND. HD. M.S. (2 REQ’D.)</td>
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<td>0017-00041-0013</td>
<td>GROMMETS (2 REQ’D’)</td>
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<td>0017-00021-0096</td>
<td>2 TERMINAL JACK – FEMALE</td>
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<td>0017-00003-0026</td>
<td>BALLAST</td>
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<td>8</td>
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<td>#8 - 32 x 1/4 PAN HD. EXT. SEMS. M.S. (2 REQ’D.)</td>
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<td>9</td>
<td>0017-00021-0079</td>
<td>STARTER HOLDER</td>
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<td>0017-00003-0019</td>
<td>STARTER</td>
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<td>0017-00101-0528</td>
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<td>13</td>
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<td>FLUORESCENT BRKT.</td>
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<td>0017-00101-0598</td>
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MIDWAY MFG. CO.
A BALLY COMPANY
# No. 852 – Space Invaders Deluxe – Push Button Assy.

**Order by Part Number Only**

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<td>0017-00009-0384</td>
<td>Button</td>
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<td>0010-00593-0000</td>
<td>Spring</td>
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<td>0017-00104-0028</td>
<td>Flat Washer (2 Req’d.)</td>
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<td>E-ring</td>
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<td>A739-00012-0000</td>
<td>Push Button Assy. (First 5 Items)</td>
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<td>Mounting Brkt.</td>
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<td>Switch Assy.</td>
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<td>9</td>
<td>0020-00202-0000</td>
<td>Switch Plate</td>
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<td>10</td>
<td>0017-00101-0526</td>
<td>#5 - 40 x 9/16 Phil. Hd. M.S. (2 Req’d.)</td>
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Note: 5 push buttons per game.
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<tr>
<th>ITEM</th>
<th>PART NO</th>
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<td>A852-00003-0000</td>
<td>LOWER BACK DOOR ASSY.</td>
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<td>A852-00004-0000</td>
<td>UPPER BACK DOOR ASSY.</td>
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<tr>
<td>A097-00001-0000</td>
<td>LOCK ASSY. (1 UPPER, 1 LOWER)</td>
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<tr>
<td>0618-00117-0000</td>
<td>VENT SCREENG (2 UPPER, 2 LOWER)</td>
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<td>A623-00013-0000</td>
<td>CASH BOX COVER ASSY.</td>
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<td>A623-00110-0000</td>
<td>CASH BOX ASSY.</td>
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<td>A624-00001-0000</td>
<td>CASH BOX GUIDE BRKT. ASSY.</td>
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<td>0624-00101-0000</td>
<td>CASH BOX SIDE CHANNEL</td>
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<td>0017-00101-0628</td>
<td>#8 - 32 x 3/4 CARRIAGE BOLTS (4 REQ'D.)</td>
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<tr>
<td>0017-00104-0022</td>
<td>#8 STEEL WASHER (4 REQ'D.)</td>
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<td>0017-00103-0061</td>
<td>#8 - 32 LOCKNUT SEMS. (4 REQ'D.)</td>
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<td>0017-00009-0009</td>
<td>TURN BUTTONS (2 REQ'D.)</td>
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<tr>
<td>M052-00190-0001</td>
<td>TRANSPARENT TAPE (ORANGE) – 13” x 1”</td>
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## NO. 870 – SPACE INVADERS DELUXE COCKTAIL – PICTURES

**ORDER BY PART NUMBER ONLY**

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<td>0870-00990-00XF</td>
<td>GLASS TOP</td>
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<td>0775-00104-00XF</td>
<td>GLASS CLIPS (8 REQ'D.)</td>
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<td>0017-00101-0742</td>
<td>#8 x 1/2 PHIL. TRUSS HD. S.M.S. (16 REQ'D.)</td>
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<td>4</td>
<td>0851-00906-0000</td>
<td>PLEXI SCREEN OVERLAY</td>
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<td>0870-00901-0000</td>
<td>RED - YELLOW - GREEN SCREEN OVERLAY</td>
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<td>0017-00102-0000</td>
<td>T.V. BEZEL (CARDBOARD)</td>
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<td>MAIN ESCUTCHEON</td>
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<td>ESCUTCHEON -- R.H.</td>
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<td>SHELF PLATE ASSY. (2 REQ'D.)</td>
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<td>10</td>
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<td>LIGHT SHIELD (2 REQ'D.)</td>
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<td>BRKT. DECAL (2 REQ'D.)</td>
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<td>SHELF BRKT. (4 REQ'D.)</td>
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<td>LAMP 14V. (4 REQ'D.)</td>
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<td>LIGHT SOCKET (4 REQ'D.)</td>
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<td>#6 x 1/2 HEX HD. WD./W S.M.S. (8 REQ'D.)</td>
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<td>A090-00058-0000</td>
<td>FRONT DOOR ASSY. W/COIN METER</td>
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<td>0870-00002-0TBK</td>
<td>FRONT DOOR FRAME</td>
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<td>MONITOR &amp; CHASSIS ASSY.</td>
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<td>TUBE BRKT. (4 REQ'D.)</td>
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<td>#10 x 3/4 HEX HD. S.M.S. (8 REQ'D.)</td>
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<td>LEG LEVELERS (4 REQ'D.)</td>
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<td>23</td>
<td>0017-00103-0026</td>
<td>LEG LEVELER NUTS (4 REQ'D.)</td>
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<td>PROP (ORANGE SUPPORT BRKT.)</td>
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<td>25</td>
<td>A084-00000-L852</td>
<td>MOTHER BOARD ASSY.</td>
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<tr>
<td>26</td>
<td>A084-09700-A852</td>
<td>GAME BOARD ASSY.</td>
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**NOT SHOWN LIST**

- SPEAKER ASSY.
- SPEAKER (1 REQ'D.)
- SPEAKER GRILL (1 REQ'D.)
- SPEAKER GASKET (1 REQ'D.)
- SPEAKER BEZEL (1 REQ'D.)
- #8 .32 x 1-1/2 CARRIAGE BOLTS (4 REQ'D.)
- #8 .32 HEX NUT SEMS. (8 REQ'D.)
- VENT GRILL (1 REQ'D.)
- #8 .32 x 1-1/4 CARRIAGE BOLTS (4 REQ'D.)
- FAN ASSY.
- FAN
- FAN PLATE
- VENT SCREEN
- #6 .32 x 1/2 PHIL. R.H.M.S. SEMS. (4 REQ'D.)
- #6 EXT. WASHER (4 REQ'D.)
- #6 .32 HEX NUT (4 REQ'D.)
- GASKICK CLAMP (2 REQ'D.)
- #8 .32 HEX HD. S.M.S. (4 REQ'D.)
- STRIKE (2 REQ'D.)
- #8 .3/4 HEX HD. S.M.S. (4 REQ'D.)
- HINGE (TOP ASSY.) (2 REQ'D.)
- #10 .3/4 HEX HD. S.M.S. (4 REQ'D.)
- #6 .7/8 OVAL HD. WD. SCR. (2 REQ'D.)
- INTERLOCK SWITCH ASSY.
- #8 .3/8 HEX HD. S.M.S. (3 REQ'D.)
- ON-OFF SWITCH ASSY.
- #6 .3/2 HEX HD. S.M.S. (6 REQ'D.)

**MIDWAY MFG. CO.**

A BALL COMPANY
# NO. 870 - SPACE INVADER DELUXE COCKTAIL - CONTROL SHELF ASSY.

ORDER BY PART NUMBER ONLY

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<th>ITEM</th>
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<tr>
<td>1</td>
<td>A775-00003-0000</td>
<td>SHELF PLATE ASSY.</td>
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<td>0775-00106-00XF</td>
<td>EUCUTCHION - MAIN</td>
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<td>0775-00107-00XF</td>
<td>EUCUTCHION - R.H. PLAYER 2</td>
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<td>#6 - 32 x 5/16 PHILLIPS Pan HD. M.S. (2 REQ'D.)</td>
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<td>0017-00103-0005</td>
<td>#6 - 32 HEX NUT (2 REQ'D.)</td>
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<td>0017-00021-0002</td>
<td>#6 SOLDER LUG</td>
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<td>#5 - 40 x 1/4 SLOT PAN HD. M.S. (2 REQ'D.)</td>
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<td>8</td>
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<td>#6 EXT. LOCK WASHER (2 REQ'D.)</td>
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<td>TENSION LEAF, 010 (2 REQ'D.)</td>
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<td>A775-00005-0000</td>
<td>SWITCH ASSY. (2 REQ'D.)</td>
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<td>0020-00202-0000</td>
<td>SWITCH PLATE (3 REQ'D.)</td>
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<td>#5 - 40 x 9/16 SLOT RD. HD. M.S. (4 REQ'D.)</td>
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<td>A669-00006-0000</td>
<td>KNOB &amp; SHAFT ASSY.</td>
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<td>1/2 E-RING (2 REQ'D.)</td>
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<td>0775-00701-00XF</td>
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<td>5/32 E-RING</td>
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<td>#10 - 32 x 3/4 SOCKET HD. CAP SCREW</td>
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<td>21</td>
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<td>PAL NUT 5/8 - 11</td>
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<td>0017-00104-0028</td>
<td>FLAT WASHER (2 REQ'D.)</td>
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<td>PUSH BUTTON ASSY. (ITEMS 19-24)</td>
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<td>PUSH BUTTON SWITCH ASSY.</td>
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<td>#5 - 40 x 7/16 SLOT RD. HD. M.S. (2 REQ'D.)</td>
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<td>SHELF MTG. BRKT. (2 REQ'D.)</td>
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<td>31</td>
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<td>#6 x 1/2 SLOT HEX HD. M.S. (5 REQ'D.)</td>
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<td>32</td>
<td>0017-00031-0044</td>
<td>LAMP SOCKET (2 REQ'D.)</td>
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<td>33</td>
<td>0017-00032-0051</td>
<td>LAMP #194 14V, 27A WEDGE (2 REQ'D.)</td>
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<td>0017-00032-0051</td>
<td>BUTTON SWITCH (MAIN CONTROL ONLY) (2 REQ'D.)</td>
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**MIDWAY MFG. CO.**

A BALLY COMPANY
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<thead>
<tr>
<th>ITEM</th>
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<td>A097-00001-0000</td>
<td>LOCK ASSY.</td>
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<td>A749-00003-0000</td>
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<td>A627-00052-0000</td>
<td>CASH BOX COVER ASSY.</td>
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<td>0625-00117-0000</td>
<td>CASH BOX GUIDE</td>
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<td>A625-00024-0000</td>
<td>CASH BOX GUIDE BRKT. ASSY.</td>
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<td>#8 - 32 x 3/4 CARRIAGE BOLTS (4 REQ'D.)</td>
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<td>0017-00103-0008</td>
<td>#8 - 32 HEX NUT (4 REQ'D.)</td>
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<td>GAME BOARD P.C. ASSY.</td>
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<td>MOTHER BOARD P.C. ASSY.</td>
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<td>POWER SUPPLY ASSY.</td>
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<td>A749-00004-0000</td>
<td>TRANSFORMER BOARD ASSY.</td>
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<td>P.C. SUPPORT BRKT. — 12” (4 REQ'D.)</td>
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<td>P.C. SUPPORT BRKT. — 6-1/2” (2 REQ'D.)</td>
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<td>P.C. SUPPORT BRKT. — 4” (6 REQ'D.)</td>
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<td>P.C. SUPPORT BRKT. — 2-1/2”</td>
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<td>0017-00009-0419</td>
<td>PIN EXTRACTOR TOOL (PIN POPPER) (MOLAX JACKS ONLY)</td>
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*Midway Mfg. Co.*

A Bally Company
NOTES

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<td>#6 - 32 x 1/4 CARRIAGE BOLT (2)</td>
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<td>0090-00117-03XF</td>
<td>COIN ENTRY PLATE (25¢)</td>
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<td>0090-00906-0000</td>
<td>PLASTIC START BUTTON</td>
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<td>DOOR LOCK &amp; KEY WITH SCREW &amp; NUT</td>
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<td>421 N.S. CAM</td>
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<td>ACCEPTOR FRAME ASSY.</td>
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<td>TRIP WIRE</td>
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<td>0017-00101-0507</td>
<td>#4 - 36 x 3/4 SCREW</td>
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<td>SWITCH BRKT. – DOOR TILT</td>
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<td>OPTIONAL - ANTI-SPRING DEVICE ASSY. (REPLACES ITEM NO. 30)</td>
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<td>TRANSFORMER – 60 CYCLE – DOMESTIC (OR)</td>
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<td>MT00-00059-0000</td>
<td>TRANSFORMER – 50 CYCLE – FOREIGN</td>
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<td>0017-00101-0017</td>
<td>#6 x 1/2 SLT. HEX HD. WD. SCR. (2 REQ’D.)</td>
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<td>3</td>
<td>0017-00101-0637</td>
<td>#8 – 32 x 1” CARRIAGE BOLT (2 REQ’D.) WITH</td>
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<td>0017-00103-0008</td>
<td>#8 – 32 HEX NUT (2 REQ’D.)</td>
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<td>0720-00001-0200</td>
<td>2 POSITION FUSE BLOCK</td>
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<td>0017-00003-0103</td>
<td>FUSE 1 AMP</td>
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<td>FUSE 3 AMP</td>
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<td>0017-00101-0018</td>
<td>#6 x 3/4 SLT. HEX HD. SCREW (5 REQ’D.)</td>
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<td>0017-00003-0064</td>
<td>16 FT. LINE CORD – NOT SHOWN</td>
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