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GAME INSTRUCTIONS

GAME DESCRIPTION:

U.S. CLASSIC is a vertical video game and may be played by one or two players alternately. After inserting the proper coinage and starting a one or two player game, the screen displays the conditions for the first hole. This would include the wind velocity, yardage and direction of the green. The screen also displays a complete set of clubs, from the putter and pitching wedge to the 1 wood. The screen points to a suggested club based on wind conditions, terrain and distance which affect each shot. If the player agrees with the suggestion, he simply presses the SELECT button. If the player prefers a different club he may select one by simply rolling the track-ball left or right until the pointer rests on the club he wants. He then presses the SELECT button to enter his choice.

After the club choice is made, the screen displays the player's position on the course together with the distance in yards and wind direction and velocity. Displayed at the right margin of the screen is a complete map of the course showing the player's location and direction to the green. Also displayed is the hole number and whether that particular hole is IN or OUT. The first 9 holes are IN and the last 9 holes are OUT. A 9 hole course is always played on the OUT or last 9 holes.

As the player tees off, his concern is with wind direction, wind velocity and location of the green. In which direction and with how much force to roll the track-ball is dependant on these important factors.

HOW TO PLAY:

* USE BALL CONTROL TO SELECT "9 HOLE" OR "NORMAL."

* FOR EACH HOLE UNDER PAR, ONE ADDITIONAL HOLE IS AWARDED.

* FOR EACH "HOLE IN ONE", TWO ADDITIONAL HOLES ARE AWARDED.

* IF SCORE ON HOLE IS DOUBLE PAR, A "GIVE UP" DISPLAY FLASHES.

* PLAYER MAY CONTINUE GAME WHILE THE CONTINUE OPTION IS DISPLAYED.

* CLUB SELECTION - Use Ball Control To Select Club.
  Press Select Button To Enter Selection.

<table>
<thead>
<tr>
<th>Club</th>
<th>Yards</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1</td>
<td>248</td>
</tr>
<tr>
<td>W3</td>
<td>235</td>
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<tr>
<td>W4</td>
<td>216</td>
</tr>
<tr>
<td>W5</td>
<td>205</td>
</tr>
<tr>
<td>13</td>
<td>205</td>
</tr>
<tr>
<td>14</td>
<td>194</td>
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<tr>
<td>15</td>
<td>183</td>
</tr>
<tr>
<td>16</td>
<td>172</td>
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<tr>
<td>17</td>
<td>156</td>
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<tr>
<td>18</td>
<td>139</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>PW</td>
<td>117</td>
</tr>
<tr>
<td>SW</td>
<td>85</td>
</tr>
</tbody>
</table>

19 - 128 YARDS

Press Select Button To Enter Selection.
This manual will guide you in the conversion of your color monitor upright video game into a "U.S. CLASSIC" game. We strongly urge you to read through the instructions carefully before beginning the conversion.

WARNINGS AND NOTICES

For safety and reliability, Taito America Corporation does not recommend nor authorize any substitute parts or modifications of Taito America Corporation equipment. In addition, any substitute parts or equipment modifications may void FCC compliance.

Use of non-Taito America parts and/or modifications of game circuitry may adversely affect game performance and safety.

Since "U.S. CLASSIC" is protected by Federal copyright, trademark and patent laws, unauthorized altered versions of this game are illegal under Federal Law. This also applies to unauthorized facsimiles of Taito America equipment, logos, designs, publications, assemblies and/or games (or features not deemed to be in the public domain) whether manufactured with Taito America components or not.

NOTICE

Certain parts salvaged from your old game are required to complete your kit. These salvaged parts MUST operate properly to insure the performance and safety level of this game. Always repair circuit board malfunctions and cabinet damage before conversion is attempted.

Check the parts supplied in this kit against the parts list included in this manual.

CAUTION

FOR SAFE OPERATION IT IS STRONGLY RECOMMENDED THE CABINET BE PROPERLY GROUNDED. THIS GAME IS EQUIPPED WITH A THREE CONDUCTOR POWER CABLE. THE THIRD PRONG (round in shape) WILL AUTOMATICALLY GROUND THE GAME WHEN PLUGGED INTO A PROPERLY GROUNDED THREE PRONG RECEPTICAL. IF IT BECOMES NECESSARY TO USE AN ADAPTOR, THE GROUNDING LUG OR WIRE ON THE ADAPTOR MUST BE PROPERLY GROUNDED TO ASSURE SAFE OPERATION.

NOTICE

This kit is not intended for use with X-Y monitors. Suitable monitors are the horizontal or vertical raster-scan with inputs for red, green and blue video as well as composite negative sync. (These should be compatible with TTL logic levels.)

Note: "U.S. CLASSIC" USES A COLOR MONITOR IN THE VERTICAL POSITION.
NOTICE

Be sure the power supply from your old game is capable of +5 vdc regulated at 7A and +12vdc regulated at 2A. These operating voltages are necessary for your kit. Please note the enclosed warning with the PC Board Assembly.

**TAITO AMERICA CORPORATION KIT PARTS PROVIDED**

<table>
<thead>
<tr>
<th>QTY.</th>
<th>DESCRIPTION</th>
<th>REF NO.</th>
<th>PART NO.</th>
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<tbody>
<tr>
<td>1</td>
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</tr>
<tr>
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<td>MONITOR BEZEL</td>
<td></td>
<td>145-208002</td>
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<tr>
<td>1</td>
<td>CONTROL PANEL OVERLAY</td>
<td></td>
<td>145-908004</td>
</tr>
<tr>
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<td>TRACK-BALL MOUNTING PLATE</td>
<td></td>
<td>145-201037</td>
</tr>
<tr>
<td>1</td>
<td>TRACK-BALL ASSEMBLY (3 INCH WHITE)</td>
<td></td>
<td>145-201015</td>
</tr>
<tr>
<td>2</td>
<td>BUTTONS (WHITE ULTIMATE)</td>
<td>53010011</td>
<td>145-901012</td>
</tr>
<tr>
<td>1</td>
<td>BUTTON (YELLOW ULTIMATE)</td>
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<td>145-901033</td>
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<tr>
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</tr>
<tr>
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<td>OPERATING MANUAL</td>
<td></td>
<td>145-908007</td>
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<td>145-908013</td>
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<tr>
<td>1</td>
<td>PACKING CARTON</td>
<td></td>
<td>145-299002</td>
</tr>
</tbody>
</table>

**TOOLS AND SUPPLIES REQUIRED**

- [ ] Screwdriver
- [ ] Pliers
- [ ] Hex Driver
- [ ] Grease Pencil Or Marker
- [ ] Soldering Iron And Solder
- [ ] Hacksaw, Jigsaw Or Tablesaw With Carbide-Tipped Blade
- [ ] Phillips Screwdriver
- [ ] Wire Cutters
- [ ] X-Acto Knife
- [ ] Electric Drill W/Bits
- [ ] 180-Grit Sandpaper
- [ ] Electrical Tape Or Heat-Shrink Tubing
** TABLE GAME KIT ONLY **

TAITO AMERICA CORPORATION KIT PARTS PROVIDED

<table>
<thead>
<tr>
<th>QTY.</th>
<th>DESCRIPTION</th>
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<th>PART NO.</th>
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</thead>
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<tr>
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<td>CONTROL PANEL OVERLAYS</td>
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<td>145-908004</td>
</tr>
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<td>2</td>
<td>TRACK-BALL MOUNTING PLATES</td>
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<td>145-201037</td>
</tr>
<tr>
<td>2</td>
<td>TRACK-BALL ASSEMBLIES (3 INCH WHITE)</td>
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<tr>
<td>2</td>
<td>BUTTONS (WHITE ULTIMATE)</td>
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<td>145-901012</td>
</tr>
<tr>
<td>2</td>
<td>BUTTONS (YELLOW ULTIMATE)</td>
<td>53010015</td>
<td>145-901033</td>
</tr>
<tr>
<td>1</td>
<td>SET OF BUTTON LABELS (4 PCS.)</td>
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<td>145-901016</td>
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<td>ADHESIVE GAME INSTRUCTIONS</td>
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<td>OPERATING MANUAL</td>
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<td>R.F. CAGE FOR F.C.C. COMPLIANCE</td>
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<tr>
<td>1</td>
<td>PACKING CARTON</td>
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<td>145-299002</td>
</tr>
</tbody>
</table>
All games require a certain amount of maintenance to remain in good operating condition. A periodic check of mechanical controls would be beneficial to guarantee your game will be profitable.

**GAME PREPARATION**

**CLEANING**

The exterior of the game, all metal parts and all plastic parts can be cleaned with non-abrasive cleaner. Caution should be used when cleaning the plastic. A dry cloth can cause scratches and result in a foggy worn appearance. Plexiglas cleaner on a soft cloth is suggested to maintain and keep your monitor crt cover looking new.

Inspect your cabinet for any gouges or items stuck on the cabinet like chewing gum. Remove all foreign objects and fill in the gouges with any type of quick hardening wood putty. Sand to ensure the surface is smooth. Wipe the outside of the old cabinet clean. Remember the reason you are converting your old game is to have the increased earnings of a new game. Making your game look like a new game will spark new player-interest.

**NOTICE**

Please make sure you clean the coin mechanisms. It is important that you service them in order for this game to achieve the maximum possible earnings.

**CONVERSION INSTRUCTIONS**

Remove the new "U.S. CLASSIC" Marquee (UPRIGHT GAME KIT ONLY) from the kit. This new Marquee provided with your kit is specifically designed for ease of handling. Place and center the old Marquee on top of the new Marquee. Place masking tape on the area where you intend to cut the new Marquee. Using an X-Acto knife, score the new Marquee and simply break at this score. If your old Marquee is made of glass, remove the paint of the old Marquee and attach the new Marquee behind this glass. If your old Marquee is made of Plexiglas, it is recommended that new clear Plexiglas be used to best provide the brilliance of your new Marquee.

Remove the new "U.S. CLASSIC" monitor bezel from the kit. Place the bezel around the existing monitor. Using an X-Acto knife trim the new monitor bezel to neatly fit around the monitor.

**CONTROL PANEL**

Remove the old control panel lexan decal, buttons and joysticks. Refer to the template provided in this kit to design the best possible positioning for your track-ball(s), buttons and control panel instructions.
Leave your 1 and 2 player start buttons where they are on the old control panel. (Use the enclosed 1 and 2 player button labels if needed.) Drill holes as needed for installation of the track-ball and other buttons. Clean any burrs from around holes. Any hole that is no longer needed we suggest plugging with wood putty or epoxy.

NOTE: A metal plate has been provided for mounting the track-ball to your existing control panel. Use this plate as a template to mark the mounting holes, cut-out, etc. See illustration on page 11.

Cut the new "U.S. CLASSIC" lexan to the appropriate size needed to cover the panel. Leave enough lexan to wrap a small lip around the top and bottom of the panel.

Remove the backing from the "U.S. CLASSIC" lexan and apply it over the old control panel being careful to avoid air pockets.

After the lexan is securely applied, cut the holes on the control panel with an X-Acto knife or razor blade. Install the new track-ball, buttons and button labels and any hardware that might have been removed on the control panel and tighten them down.

WIRING PROCEDURES

INSTALLING INTERBOARD WIRING

This game comes with a color-coded cable for easy installation. Refer to the wiring diagram included in this manual for quick connections.

Disconnect the old wiring harness from the old cpu board and carefully remove old circuit boards and FCC cages from the game.

Using the diagrams from your old game, carefully note the function of each wire.

Leaving several inches of wire from the old wiring harness at each connector, cut the wires near the game's coin door, monitor, control panel, power supply and speaker wires. Install the new wiring harness to those points following your wiring diagram. Use electrical tape or heat-shrink tubing to insulate all splices.

Install your FCC cage where the old board set was.

Mount the "U.S. CLASSIC" PCB assembly with the mounting blocks provided in the center of the FCC cage. Plug the wiring harness onto the PCB and close the cage securely. The board cage in this kit must be properly installed and terminated to ground.

Check and clean the input jack on the power supply board. Replace any burned or damaged pins.
DIP SWITCH SETTINGS

The following option switch settings were designed to allow the customizing of U.S. CLASSIC's various game features to suit different environments. If used wisely, the flexibility they offer can maximize game performance and increase potential earnings.

<table>
<thead>
<tr>
<th>FUNCTION</th>
<th>SETTING</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>
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<tbody>
<tr>
<td>GAME STYLE</td>
<td>TABLE</td>
<td>OFF</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td>UPRIGHT</td>
<td>ON</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>SCREEN INVERSION</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>INVERTED</td>
<td>ON</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TEST MODE</td>
<td>*NORMAL</td>
<td>OFF</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>TEST</td>
<td>ON</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADJUSTMENT FOR FLYING</td>
<td>*NORMAL RATE</td>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
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<tr>
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<td>ON</td>
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<td>ON</td>
<td>ON</td>
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<tr>
<td></td>
<td>NORM. + 10Y</td>
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<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>NORM. + 20Y</td>
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<td>ON</td>
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<td>ON</td>
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<tr>
<td></td>
<td>NORM. + 30Y</td>
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<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
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<td>OFF</td>
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<td>ON</td>
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<td>ON</td>
<td>ON</td>
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<tr>
<td></td>
<td>NORM. + 50Y</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
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<tr>
<td></td>
<td>NORM. + 60Y</td>
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<td>NOT USED</td>
<td>MUST REMAIN IN &quot;OFF&quot; POSITION</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*= FACTORY RECOMMENDED SETTINGS

CABINET STYLE - ADJUST THIS SWITCH TO CORRESPOND WITH THE CABINET STYLE BEING CONVERTED.

SCREEN INVERSION - THIS SWITCH ALLOWS YOU TO INVERT THE IMAGE ON THE SCREEN, WITHOUT HAVING TO REMOUNT YOUR COLOR MONITOR.

CLEARING THE BACK-UP RAM

TURN THE POWER TO THE GAME OFF. WITH BOTH THE 1 PLAYER AND 2 PLAYER START BUTTONS DEPRESSED, TURN THE POWER BACK ON. "BKUPRAM CLEARED" WILL BE DISPLAYED. ALL NAMES AND HIGH SCORES WILL RETURN TO THEIR DEFAULT SETTINGS.
### DIP SWITCH SETTINGS (cont.)

<table>
<thead>
<tr>
<th>FUNCTION</th>
<th>SETTING</th>
<th>1</th>
<th>2</th>
<th>3</th>
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<th>5</th>
<th>6</th>
<th>7</th>
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<tbody>
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<td>Guaranteed 9 Holes</td>
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<tr>
<td></td>
<td>3 Coins</td>
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<td>Holes Per Play</td>
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<tr>
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<td>1 Hole</td>
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<td>4 Holes</td>
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<td></td>
<td>1 CO = 2 PL</td>
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<td>2 CO = 1 PL</td>
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<td></td>
<td>2 CO = 3 PL</td>
<td>ON</td>
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<tr>
<td>Play Pricing Coin B</td>
<td>1 CO = 1 PL</td>
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<tr>
<td></td>
<td>1 CO = 2 PL</td>
<td>ON</td>
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<td></td>
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<td></td>
</tr>
<tr>
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<td>2 CO = 3 PL</td>
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* = Factory Recommended Settings

### Wiring Diagram for Track-Ball Harness Assembly

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<td>RIGHT</td>
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<td>5</td>
<td>ORG</td>
<td>LEFT</td>
</tr>
<tr>
<td>6</td>
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SUGGESTED CONTROL PANEL LAYOUT

IF POSSIBLE, DO NOT OBSTRUCT ARTWORK

1.125 DIA.

2 PLAYERS

.25" DIA.

CUT-OUT 7.25"

PLATE 8.25"

CUT-OUT 5"

PLATE 6"

SELECT