

# 2011 GOLDEN TEE UNPLUGGED

## Showpiece and Kit Installation Manual & User Guide



# WARNINGS AND NOTICES

## NOTICE

- This game is intended to be operated for amusement purposes only. It is not to be operated in violation of any federal, state, or local laws or regulations. As the owner and/or operator of this game you are responsible for its operation in compliance with such laws and regulations. The factory settings for this game may require adjustment in order to comply with the laws and/or regulations in the jurisdiction where the game is located. It is the sole responsibility of the operator to determine what laws and/or regulations are applicable and to make any adjustments to the game before operating it for its intended purpose.
- This manual and the information contained within is subject to change without notice.
- The Showpiece cabinet is intended for use with the Showpiece Integrated Stand (Model 304S).

## WARNING

- Use of unauthorized parts or making any unauthorized modifications will void the warranty and may result in the game operating in an unsafe or incorrect manner.
- If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
- This cabinet is not suitable for installation in an area where a water jet would be used. The cabinet must not be cleaned by a water jet.

## WARRANTY, REPAIR, AND RETURN POLICY

- 90-day warranty on all electronic components. All warranty periods begin on the date of purchase from Incredible Technologies, Inc.
- There is a minimum \$75.00 service charge for all non-warranty repairs or returns.
- For all servicing, return to Incredible Technologies, Inc.
- ANY non-factory repair or attempted repair voids warranty.

## RETURN MERCHANDISE AUTHORIZATION

- All returned merchandise must have a Return Merchandise Authorization (RMA) number marked clearly on the outside of the package.
- You must obtain all RMA numbers from Incredible Technologies. Please have the product's Cabinet Identification Device (CID) number available when calling for an RMA number.
- Merchandise returned without an RMA number will not be accepted.
- Warranty may be void if serial number or security labels are tampered with or removed. **Opening the Nighthawk Chassis system will void your warranty.**
- Advance replacement hardware will be shipped to the customer address on file unless specified otherwise.
- Advance replacement hardware will be billed to the customer until Incredible Technologies, Inc. receives the returned merchandise, at which time a credit will be issued.
- All repairs and/or replacements will ship as soon as possible after receipt or request (subject to availability).

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- Materials sent to IT for repair must be paid for according to current price schedules and in a reasonable time. Storage fees for repaired equipment will be charged at a rate of \$50.00 (Fifty US Dollars) per calendar month or fraction thereof after 90 (Ninety) days from notice to the customer that the repairs are complete. IT reserves the right to resell repaired equipment to cover accumulated storage charges when the accumulated storage charge reaches 100% (One Hundred Percent) of the repaired items' then-current replacement cost.

- INCREDIBLE TECHNOLOGIES, INC

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## 1) Licensing Fee

The Licensing Fee ("LF") shall be as follows:

- US\$0.00 (Zero United States Dollars and zero cents.)

## 2) Term

The License shall be valid on the first date that both the LF is paid for the Update and it is installed on a GT Cabinet. If the Update has been offered or sold to you under the terms of a Term Software License, the terms of this License shall become applicable if and when the Term Software License terminates in favor of this Perpetual Software License, as set forth in the Term Software License. The term shall be perpetual and throughout the Universe for the Update on the GT Cabinet upon which it is installed at the time the LF is paid. Updates are not transferrable to any other GT Cabinet, for any reason. If a GT Cabinet with an Update is destroyed or otherwise taken out of operation, this License shall terminate.

## 3) License Rights

Licensee shall have the right to utilize the Update on authorized GT Cabinets in the normal course of business and as controlled by the Rules of ITNet, as set forth in a separate "Operator Agreement" document, the terms and conditions of which, where not conflicting with the terms and conditions herein, are hereby incorporated by reference. Updates may only be operated on GT Cabinets which are installed in commercial locations, as that term is defined by IT, and to which there is general access by all parties with a general right to enter the location where the GT Cabinet is operated.

## 4) Legal Operation

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In jurisdictions which do not allow the exclusion of implied warranties or liability for incidental or consequential damages, acceptance of this License and installation of the Update includes stipulation that the most minimal requirements of the law of those jurisdictions shall govern any additional required additional rights of Licensee.

## 9) Severability

If any provision of this License shall be held by a court of competent jurisdiction to be illegal, invalid or unenforceable, the parties nevertheless agree that the court should endeavor to give effect to the parties' intentions as reflected in the provision, and the remaining provisions shall remain in full force and effect.

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## SHOWPIECE™ AND KIT INSTALLATION MANUAL

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**NOTE**

**PLEASE RETAIN ORIGINAL SHIPPING BOX FOR SERVICE AND REPAIR.**

**The Golden Tee Unplugged KIT is designed for use in cabinets with a JAMMA cable and wiring installed.**

**If you do not have a JAMMA harness already installed in the cabinet you have selected and are wiring the cabinet yourself, refer to the JAMMA Wiring Diagram in Appendix B.**

**Do NOT perform any installation or repair when the cabinet is powered on. Make sure the cabinet is unplugged from all power sources before and during installation.**

**Some game features may not be allowed in certain state or local jurisdictions. Be sure to check your local laws before activating or allowing any features that may be questionable in your area. Adjust game settings from the System Setup Menus. Refer to this manual for details.**

**Incredible Technologies cabinets are shipped with the USB cables disconnected from the I/O Board and the Cabinet Identification Device (CID). This prevents vibrations during shipment from damaging the contacts on the connectors. These cables must be connected before operating the equipment.**

**IT recommends disconnecting these USB cables whenever transporting the unit.**

# SHOWPIECE™ CABINET

Congratulations on purchasing a Golden Tee Unplugged Dedicated Cabinet. The game comes complete and ready to plug in and start earning money.

## SHOWPIECE CABINET CONTENTS

(1) Golden Tee Unplugged Showpiece Cabinet

Shipped inside a plastic parts bag attached to the front of the cabinet:

- (1) Marquee Header
- (1) Power Cord
- (1) Game Manual
- (1) HDMI Cable
- (1) Plastic Bag of Misc. Parts

Shipped inside the cardboard sleeve on the top of the control panel:

- (2) Marquee Header Brackets

## NOT Included with your Showpiece Cabinet

You will need to supply a digital display for the game's main monitor, and an appropriate stand or wall mount. Be sure that the stand or wall mount is UL listed. Incredible Technologies recommends a 42" HDTV that supports 720p for the best presentation, game play and earnings potential. A list of Recommended Mounting Solutions can be found under Purchasing Info and Specs at the following address on the IT web site:

<http://www.itsgames.com/itsgames/Products/GoldenTee/GTUnplug2011/specs.jsp>.

## LEG LEVELER ADJUSTMENT

Once your game is in position at the location, it is necessary adjust the leg levelers. The leg levelers will help stabilize the game on an uneven floor, and help it from moving or shifting during game play. The game is shipped with the two front and two rear leg levelers installed. Adjust the levelers as necessary to level and stabilize the game.

## MOUNT MAIN SCREEN DISPLAY

Position the Showpiece cabinet in front of an HDTV. Incredible Technologies recommends 720p flat panel HDTVs from 32" or larger.

The HDTV can be mounted to a wall or to an appropriate display stand. There are many different types of wall mounts and floor stands available through retail, wholesale and Internet outlets. Be sure that the wall mount or stand you select must be UL listed. Check [www.itsgames.com](http://www.itsgames.com) for some possible options.

Be sure that the top of the Showpiece cabinet has at least 24" clearance in all directions. Insufficient clearance may result in damage to your display or player injury.

Recommended height for your display may vary depending on your location and player base. As a general rule, the minimum height of the bottom of the display viewing area should be 42" from the floor.

## INSTALL MARQUEE

Your Showpiece cabinet comes with a framed marquee header that can be easily attached to the top of your monitor. The brackets for the header are shipped inside a separate cardboard insert labeled *Parts – Do Not Discard* within the cabinet packaging. The insert is located on the top of the control panel.

First, attach the two brackets to the back of the universal mounting plate you are using for your HD display. The brackets share the same screws used to affix the display to the mounting plate, and are sandwiched between the plate and the back of the monitor. Once the brackets are in place, slide the marquee frame onto the clips on the two newly mounted brackets. Be sure the tab on the clips rest inside the channel on the marquee frame.

**⚠ WARNING: ⚠**  
Be sure top of cabinet has at least 24" or 61cm of clearance in all directions. Insufficient clearance may result in damage to monitor or player injury.

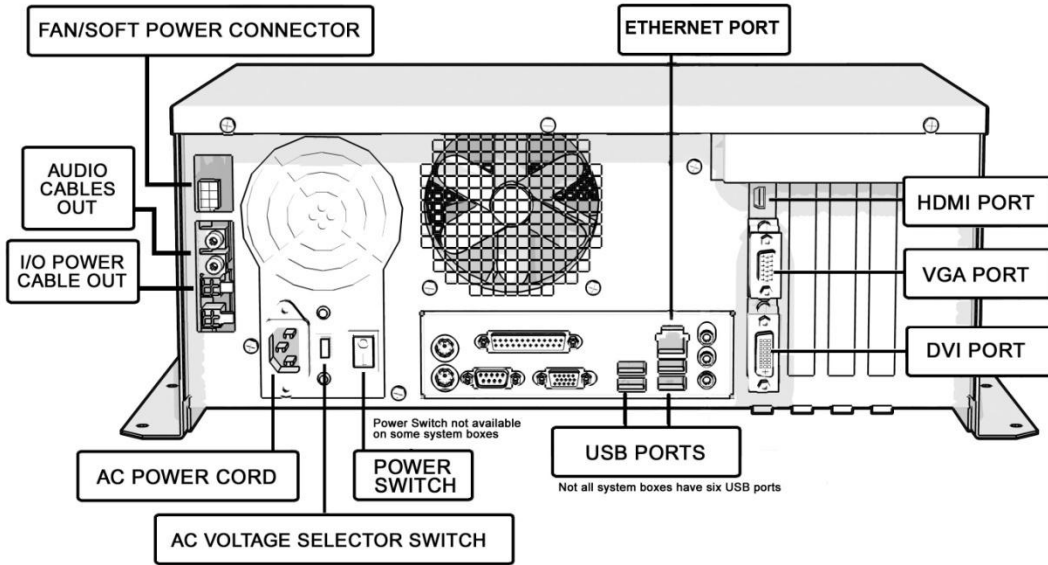




# HDTV DIP SWITCH SETTINGS AND NIGHTHAWK SYSTEM BOX

**NOTE:** Before making any Nighthawk connections, make sure the USB cables are connected for the I/O Board, CID and Card Reader. See Complete System Box Connections for details.

## Nighthawk System Box



## DIP Switch Settings for HDTVs

The DIP switch settings in your Showpiece cabinet have been factory set to accommodate a 720p HDTV connected through HDMI cables. DIP switch bank Sw201 on the I/O Board controls the video resolution for the main monitor. If using a DVI-D or VGA connection, or for different resolutions, use this chart:

# HDTV MONITOR APPLICATION

## IMPORTANT NOTE

### RESOLUTION SETTINGS

<p>1 2 3 4 OFF ON 1280 x 720 (HDMI/DVI-D) 720p DEFAULT</p>	<p>1 2 3 4 OFF ON 1280 x 720 (Component) 720p</p>	<p>1 2 3 4 OFF ON 1280 x 720 (SVGA) 720p</p>	<p>1 2 3 4 OFF ON 800 x 600 (SVGA)</p>	<p>1 2 3 4 OFF ON 640 x 480 (VGA)</p>
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I/O CARD DIAGRAM FOR ORIENTATION

Sw201 Sw200 Sw202

1 2 3 4 OFF ON

1 2 3 4 OFF ON

1 2 3 4 OFF ON

Sw200 ALWAYS ON  
Do Not Change  
Settings shown for Showpiece

### ADDITIONAL SETTINGS

<p><b>Primary Monitor</b></p> <p>1 2 3 4 OFF ON Primary Monitor has 16 x 9 Aspect Ratio DEFAULT</p> <p>1 2 3 4 OFF ON Primary Monitor has 4 x 3 Aspect Ratio</p> <p><b>System Setup</b></p> <p>1 2 3 4 OFF ON Enter System Setup Menus</p> <p>1 2 3 4 OFF ON Exit System Setup Menus DEFAULT</p>	<p><b>Secondary Monitor</b></p> <p>1 2 3 4 OFF ON Optional 2nd Monitor has 16 x 9 aspect ratio DEFAULT</p> <p>1 2 3 4 OFF ON Optional 2nd Monitor has 4 x 3 aspect ratio</p> <p>1 2 3 4 OFF ON Do Not Flip Optional 2nd Monitor DEFAULT</p> <p>1 2 3 4 OFF ON Vertical Flip Optional 2nd Monitor</p>
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### NOTES:

A reboot is required when changing resolutions

Video and audio connections to HDTVs vary, and may require additional cables not included with the Showpiece cabinet. Also, some displays may not support the resolution needed for your game. Check your display's manual for additional information.

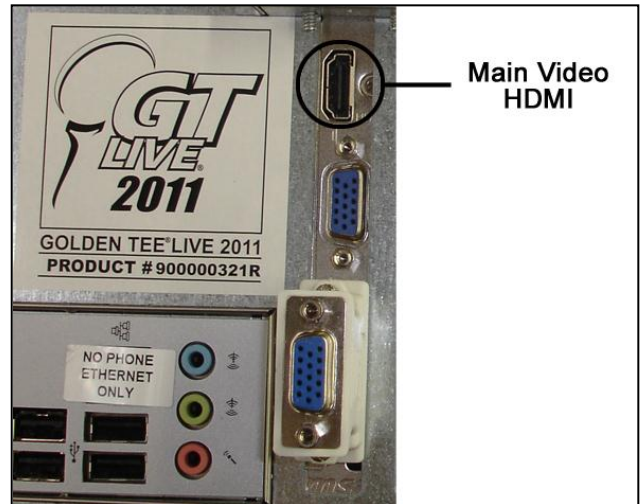
# VIDEO CONNECTIONS FOR 720P HDTV

Golden Tee Unplugged 2011 supports 720p (1280x720) resolution. Be sure your HDTV is compatible. For any questions related to Showpiece cabinet connections, see the Showpiece Connections Guide at <http://www.itsgames.com/itsgames/Products/GoldenTee/GTUnplug2011/specs.jsp>

If you plan to use a Single HDTV as your only video output, follow the instructions below.

## Connect to HDMI

Connect the HDMI cable (supplied) to the HDMI output on the Nighthawk system. Route the cable through the clip under the lock on the back wall, and down through the access panel on the back of the cabinet. Connect the other end of the HDMI cable to the proper HDMI input on your television.



**NOTE:** GT Live and Unplugged 2011 have the same port configurations.

## Set Up Your HDTV

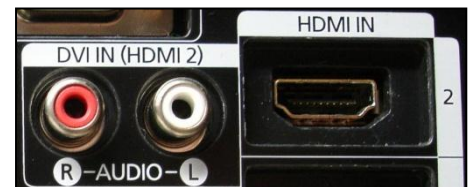
Refer to the HDTV manual to adjust the video signal to match the correct input for your game. Selecting the correct input is commonly found from a system menu accessed from the remote, or an Input Select button on the HDTV.

## Audio Connections for HDMI

The HDMI cable will also supply audio to the speakers on your HDTV.

# AUDIO CONNECTIONS FOR HDTV

In certain situations, it may not be possible to draw sound through the HDMI connection. If the HDTV has RCA audio L/R inputs associated with an HDMI Input, it is possible to use the HDTV speakers.



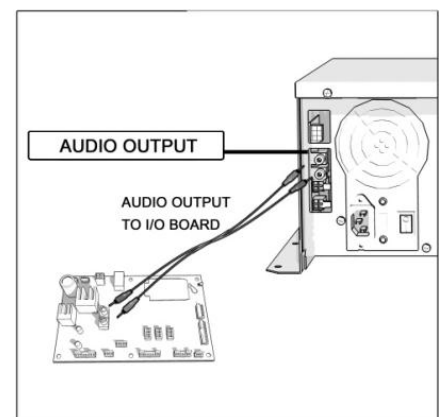
**Example of HDMI Input with RCA Inputs**

## Connection with RCA/HDMI Input

- Using a 2-wire RCA cable (red and white) connect the RCA audio outputs on the system box to the audio L/R input next to the HDMI Input on the HDTV.

## Connection with NO RCA/HDMI Input

- If the television is NOT equipped with RCA inputs designated to a HDMI input, route the RCA cables to the I/O Board RCA inputs to output sound across the cabinet speakers. (See diagram below right.)



**Route RCA cables to I/O Board if NO RCA Inputs**

Enter the System Setup Menus and adjust the volume on the game to suit your location.

# INSTALL SECONDARY MONITOR

If you plan to use Two TVs for your video outputs, follow the instructions below.

## ABOUT THE SECONDARY MONITOR

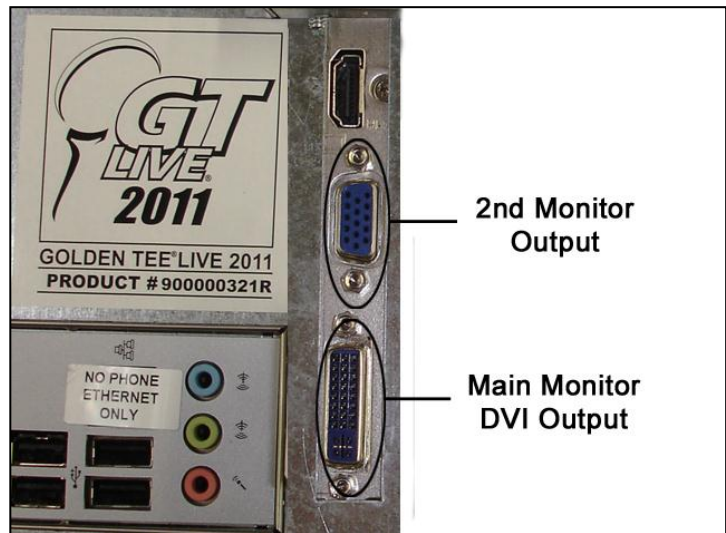
Most Incredible Technologies games, and Golden Tee Unplugged in particular, support a secondary monitor. The second monitor in Golden Tee Unplugged displays unique information, including leaderboards from worldwide contests, game replays and action, advertising screens and more. Most other games from IT support a second monitor to display the main game screen, so more of your players can see the action. Golden Tee Unplugged can also show the main display on the second monitor. See the System Setup Menus section.

Incredible Technologies recommends using a 16:9 computer monitor. In all cases, the second monitor requires a VGA connection from the Nighthawk system box to the digital display of your choice. See the Sw202 DIP switch settings on the previous page to adjust the display.

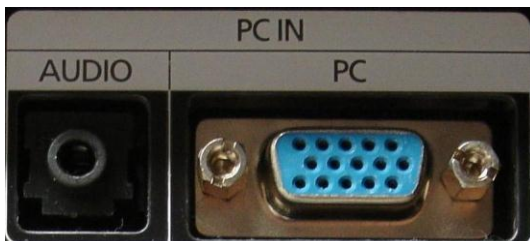
**PRIMARY VIDEO (DVI to HDMI):** To expose the DVI Output, remove the DVI to VGA Adapter from the **lower** port on the video card. Connect a DVI to HDMI Cable (or DVI to HDMI Adapter w/ a HDMI Cable) to the Main Monitor DVI Output.

## SECONDARY VIDEO (VGA)

Connect a VGA cable (not supplied) to the VGA output on the Nighthawk system (**upper** port on the video card). Route the cable through the clip under the lock on the back wall, and down through the access panel on the back of the cabinet. Connect the other end of the VGA cable to the proper input on your television. Common input label names for VGA are RGB, Computer or PC.



**NOTE: GT Live and Unplugged 2011 have the same port configurations.**



**Example of PC Input with 1/8<sup>th</sup>-inch Audio Input**

## SET UP YOUR HDTV

Refer to the HDTV manual to adjust the video signal to match the correct input that your game is connected to. Selecting the correct input is commonly found from a system menu accessed from the remote, or an input select button on the HDTV.

# FINAL CHECK

## APPLY POWER

Connect the power cable to the plug on the back of the cabinet. Then plug the cable into a 3-pronged, grounded wall socket. Locate the power switch on the back of the cabinet and turn it on.

**Note: If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.**

Watch the game carefully when you first turn it on. Look and smell for smoke (TURN IT OFF IMMEDIATELY IF ANY IS NOTICED). Make sure the fan inside the chassis is running and the LED's on the I/O board are flashing. If not, something is wrong, turn off the game.

### Check the Cabinet ID Device (CID) Number

Watch the screen during boot-up and wait for a green verification screen to appear. Note the Cabinet ID Number (CID) that appears on this screen, and verify that it matches the CID number printed on the back of the cabinet. The screen will automatically time out and boot-up will continue.

### Check the Coin Switch and Bill Validator

Try the coin switch. Drop quarters or tokens through to check the coin mechanism. Insert a dollar bill into the bill validator and listen for the credits to ring up. Make sure the game is adding credits and the correct quantity. You can use the PLAYER CONTROL TEST by pressing the System Setup button inside the coin door and entering the SYSTEM TESTS MENU. Make sure all of the controls work.

### Cabinet Temperature

The state of the art Nighthawk hardware is extremely powerful, and therefore generates a substantial amount of heat. Measures have been taken to keep the various components cool during normal use. If overheating occurs, game play and hardware longevity may be affected. Use the Check Cooling menu in the System Setup menus to monitor the temperature within your cabinet. Enter System Setup by pressing the System Setup button inside the outer door of the coin vault. Once at the main System Setup menu, use the trackball and Start button to select *Troubleshooting Shortcuts*, then *Check Cooling*.



# GENERAL CABINET MAINTENANCE

Games that are in good working condition, with clear monitors, clean control panels and working trackballs will make more money than a machine in poor condition. It is definitely worth your time and attention to protect your investment with a little common care. Each week, clean the display and wipe down the control panel to bring back that new game look. Test the trackball and buttons regularly to make sure they are playing properly. And perhaps most important, make sure the coin mechanisms and bill acceptors are in good working order.

## CARE AND CLEANING OF RUBBER BUMPER

The rubber bumper on the front of the cabinet's control panel is made from durable nitrile rubber. Clean it using a mild soap and water solution or blue window cleaner.

## NIGHTHAWK AIR FILTER

The Nighthawk Chassis comes equipped with an external electrostatic air filter. This filter is held in place by a metal bracket, attached to the chassis. The filter prevents debris from entering the chassis and damaging the electronic components. A clogged filter will impede airflow, thus building up unwanted heat which can cause damage to your hardware. Be sure to check this filter at least once a month. Remove the filter by sliding it out of its housing. Shake off excess dirt and if necessary clean it with soap and water. Be sure the filter is completely dry before reinstalling the filter.

## **TRACKBALL MAINTENANCE**

The trackball will require periodic maintenance to assure optimum performance. In most cases the inside of the trackball simply needs to be cleaned of any accumulated dust and debris.

To access the inside of the trackball, remove the 6 Phillips head screws that hold the trackball together and remove the top cover. Clean out any dust and debris inside the trackball. Polish the rollers and remove any foreign material that may be on the rollers. Do not lubricate the bearings, as this will only attract more dust. If the bearings do not spin freely it is best to replace the bearing assembly. Inspect the rollers for any nicks that may cause poor performance and replace if needed. Inspect the ball for any nicks and replace if needed. Parts can be obtained from Happ Controls and is an economical option rather than replacing the entire trackball assembly.

It is critical that the green field ground wire be properly connected to field ground. This prevents the trackball from building a static charge that can cause the game to lock up or reset. A static discharge can also damage the trackball's electronic components, as well as the main system.

## **CARE AND CLEANING OF COOLING FANS AND VENTS**

The hardware that runs Golden Tee Unplugged is quite sophisticated, and many of the chips and processors will get hot very quickly. Like your desktop PC, the Golden Tee hardware needs adequate ventilation to work properly. Dust and dirt can be a major cause to overheating and will lead to costly repairs. At least once a month, check to make sure the cabinet and chassis fans are working and free of dust and debris. Use a vacuum to clear all the ventilation holes on the cabinet at this time as well.

# SHOWPIECE CABINET REPAIR PROCEDURES

## SYSTEM CHASSIS BOX

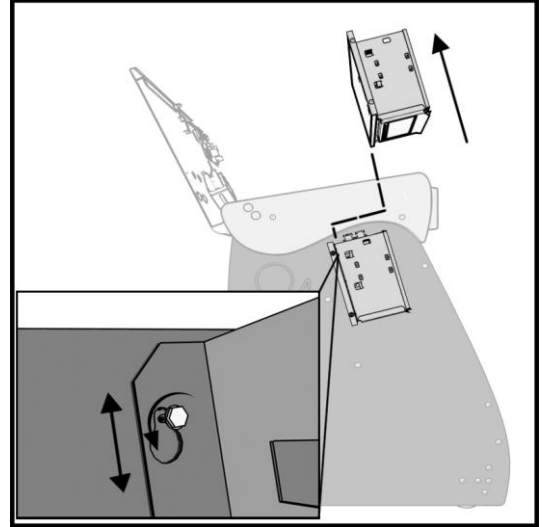
The Nighthawk Chassis houses most of the game electronics and hardware in one box that can be easily installed. As with all electronic equipment, the Chassis box should be handled with extreme care. Shock, severe temperature, or sudden impacts can damage the internal components that require costly repair.

### Note!

Turn off power to the cabinet and remove the power cord from the back of the cabinet when performing any of the following.

### System Chassis Removal

1. Unlock the control panel and open to expose the Nighthawk system box.
2. Disconnect all connections to the system box. Be sure all wires and connectors are clear and out of the way. Label the connectors for easy reconnection.
3. Loosen the 6 ¼" hex-head screws that secure the system box.
4. Carefully lift the system box off the screws and up out of the cabinet.



### System Chassis Installation

1. Unlock the control panel and open to expose the inside of the cabinet.
2. Align the system box onto the 6 mounting screws of the internal slanted panel. The connection ports face up. Once the system box is in place, tighten the 6 ¼" hex-head screws to secure the box to the panel.
3. Connect the required connections. See the Connections Diagram in the accompanying game manual for more details.

## I/O BOARD

### NOTE!

The I/O board is game title specific and is not interchangeable with other game titles produced by Incredible Technologies on this system. Dedicated and Retrofit Kit I/O boards are different and are not interchangeable.

### I/O Board Removal

First, unlock the control panel and open to expose the interior of the Showpiece cabinet. Disconnect all connections from the I/O board. Label the connectors for easy reconnection and move them safely out of the way. Next, remove the six ¼" wood screws that secure the board to the interior left side of the cabinet (as you face the game). Carefully remove the I/O board from the cabinet.

### I/O Board Installation

Place the I/O board in the proper location on the interior left side of the cabinet (as you face the control panel of the game). Be sure it is oriented properly so the cables reach the board (the USB port on the I/O board facing the top of the cabinet). Secure the I/O board to the side of the cabinet with the six ¼" wood screws. Use the factory mounting holes if at all possible. Be sure the board does not "bow" or is not stressed in any way. Once mounted, connect the appropriate connections.

## Cabinet Identification Device (CID)

This device contains a specific ID number that identifies your cabinet. The CID is a permanent number and must be connected to the main system box via the USB cable and working properly in order for the game to operate.

## CID Removal and Replacement

If for some reason you must replace the CID, disconnect the USB cable from the CID. This is the only connection to the CID. Next, remove the four ¼" wood screws that secure the CID to the interior left side of the cabinet (as you face the game). The CID is located above the I/O board. To install a CID, mount the CID in the proper location using four ¼" wood screws. The CID should be mounted so the USB port is facing the top of the cabinet and the electronics are facing the wall.

**Note!** The Cabinet Identification Device should **NEVER** be removed from the cabinet, even when replacing any of the other components. The CID is the cabinet's PERMANENT Identifier, regardless of any other components.

## CASH VAULT

The Cash Vault has been designed for optimal security. With the double-locking doors, service technicians can read meters and enter System Setup mode with no access to the cash box.

## Cash Vault Removal and Replacement

- 1) Unlock and open the outer door of the Cash Vault.
- 2) Using a T-15 Torx wrench, unscrew the card reader/button plate located on the right side by removing the four #8-32 screws located at the top and bottom of the plate.
- 3) Disconnect the connectors for the coin meter and buttons.
- 4) Remove the plate and set it aside.
- 5) Remove the coin bin and the bill validator magazine to make it easier to work inside the vault.
- 6) Unplug the bill validator cables, and push the cables for the bill validator, buttons, and coin meter through the 2 holes located in the back of the vault.
- 7) The Cash Vault is attached by upper and lower locking brackets. These are each attached with two socket-head screws located within the vault.
- 8) Locate the socket-head screws on the top and bottom locking brackets. Remove the two bottom screws using a 9/64" hex key and remove the bottom locking bracket. Make sure to note how it was installed.
- 9) Remove the two top screws and remove the top locking bracket, again noting how it was installed.
- 10) You can now pull the entire vault assembly out from the front of the cabinet. The vault is attached with foam tape, so it will need to be pried out or pushed from behind to loosen the adhesive.
- 11) Reverse the procedure to install the new door.

## Locks

The outer lock is a secure T-handle lock, commonly used in vending. To open, insert the key and turn it clockwise until the lock-handle pops out. Next, rotate the lock-handle clockwise 90 degrees to open the outer door.

The inner door has a lock installed above the System Setup button. This lock is unlocked by turning the key 90 degrees clockwise.

## Volume and Service Buttons

Mounted inside the outer door are controls for Volume and System Setup. Press the Volume Up button to increase the loudness of the sounds on the game, and press the Volume Down button to make your game quieter. Press the System Setup button to access the game's software menu system. The System Setup menus cover a variety of important areas including collections, tests, game adjustments, and optional settings.

## Bill Acceptor

The dedicated cabinet ships with a MARS AE2481 D5 bill acceptor and is mounted on the cash vault door. The default DIPswitch settings for this acceptor are ON = 1,2,4-7 and OFF = 3,8.

### Bill Acceptor Removal

Disconnect the cable to the bill acceptor. Remove the four 11/32" sized nuts from the mounting studs. Disconnect the ground wire from the one lower stud. Then gently pull the acceptor off the studs from the back side of the coin door.

### Bill Acceptor Installation

From the back side of the coin door, place the bill acceptor onto the four mounting studs. The faceplate will protrude out the front of the coin door. Place the field ground wire on a lower stud, and install the four 11/32" sized nuts on the mounting studs and tighten. Next, connect the bill acceptor cable in the cabinet to the mating cable on the bill acceptor itself.

### Stacker Removal

A blue slide switch is located at the bottom of the stacker. Engaging it allows the stacker to be removed.

## Coin Mechanism

### Coin Mechanism Removal

Loosen the two finger screws to release the securing braces. Slide the upper brace upward, and the lower brace downward. The mechanism should pull straight out.

### Meter

This 5-volt device is mounted behind the card reader plate next to the inner door of the coin vault. One lead of the meter is connected to a +5 volt source and the other lead is connected to the appropriate signal wire. An additional opening is available just below the meter, if a second meter is desired.

## CONTROL PANEL

Opening the control panel provides access to all game controls and hardware components. To open the control panel, simply use the supplied key in the lock on the back of the cabinet and lift from the back. The control panel is hinged in front and will stay open when fully extended.

### Soft Power Switch

A "soft power" switch has been added to the underside of the control panel, to assist in the update process. This switch will turn off power to the cabinet so you don't have to reach around to the main power switch located on the back of the cabinet.

#### Note!

If you turn power off using the Soft Power Switch, you **must** use this same switch when turning power back on.

### Trackball Replacement

To replace a trackball, open the control panel and remove the 4 long screws holding the trackball in place. Be careful not to lose any of the screws, washers and lock washers. Disconnect the wire harness and ground wire and remove the old trackball. Position the new trackball in the proper orientation over the existing standoffs. Make sure that the arrow on the trackball that points to the monitor is pointing up. Replace the 4 long screws and washers. Do not over tighten! Screw in until the lock washer is fully compressed. Reconnect the wiring connector and ground wire.

**Note!** The field ground wire is critical to avoid electrical problems and assure optimal performance.



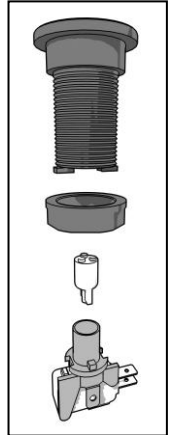
## Button Replacement

All of the buttons on the control panel require a 1 1/8<sup>th</sup> inch hole, and are pre-drilled on the dedicated control panel. To remove a button, disconnect the wires from the button assembly by sliding the wires off of the micro switch posts. Next carefully twist the micro-switch assembly off of the button posts. Finally, unscrew the nut to remove the button from the control panel.

Place the new button assembly into the hole and position the smaller side of the micro-switch housing to face the rubber bumper, angled towards the middle. Tighten the supplied nut using a pushbutton wrench. Do not over tighten. Install the micro-switch by snapping it onto the pushbutton assembly by hand. Position the assembly so the micro switch posts face the rubber bumper, angling towards the middle. Reconnect the wires by sliding the wire assembly onto the contact posts of the appropriate micro switch. See the wiring diagrams in the back of this manual.

## L.E.D. Lighted Buttons

The Help and Options buttons on Golden Tee Unplugged are Light Emitting Diode buttons. The housing for the L.E.D. snaps into the back of the button assembly. The L.E.D. must be installed properly for the light to function properly. The Anode/positive side of the L.E.D. is connected to the +5 volts, and the Cathode/negative side of the L.E.D. is connected to the appropriate signal wire. The L.E.D. slides into the housing and the housing is marked Positive and Negative. See the lamps connector J202 in the cabinet wiring diagram in Appendix D.



## Control Panel Removal

To remove the control panel from its hinge, Disconnect the trackball cable, field-ground wire, and the control panel interconnect connector to the I/O board. Remove the screw that attaches the safety cable to the control panel. Remove the four 1/4" screws holding the panel to the hinge.

## Control Panel Graphics Removal

The control panel artwork has been screened onto a solid sheet of polycarbonate, which is resistant to scratches and burns. Unfortunately long exposure to excessive situations may damage the surface over time. To remove and replace this piece, the pushbutton and trackball assemblies must first be removed. Separate the polycarbonate piece from the wood portion of the panel by starting at one corner and slowly peeling the two apart. The overlay has adhesive on the entire surface and will take some force to separate the pieces due to the adhesive. Once removed, the graphic overlay will not be able to be used again.

## Control Panel Graphics Installation

To install a new polycarbonate Graphics overlay, make sure the wood control panel surface is clean, smooth, and free from glue, dirt and debris. Remove the paper protecting the adhesive from the new artwork/cover panel. Carefully place it on the wood panel, aligning it properly. Press and smooth firmly to assure that it is secure. Replace the buttons and trackball in the correct orientation.

## SPEAKERS

The speakers are mounted in the bottom front of the cabinet, just below the coin vault. Sounds and speech are important aspects to the play experience and should be adjusted and maintained for optimal results. Make sure your speakers are in good working condition, are wired correctly, and are grounded properly to avoid buzz or hiss.

## Speaker Access

In order to reach the speakers, unlock and raise the hinged the control panel. The speakers are located just below the coin vault. Remove the 4 nuts with an 11/32" nut driver to remove the speakers from their mounting.

**Note: Both speakers must be identically wired to work properly. For optimal sounds, both speakers must be in phase with one another. Be sure the positive wire is connected to the positive terminal of each speaker and the negative speaker wire is connected to the negative terminal of each speaker.**



## KIT INSTALLATION

### KIT CONTENTS

- (1) Golden Tee 2011 Nighthawk System Box
- (1) I/O board Assembly Golden Tee 2011
- (1) Cabinet Identification Device (CID) for Golden Tee 2011
- (1) 6' SVGA cable
- (1) Trackball cable
- (1) Help Option cable
- (1) I/O Power Cable
- (1) 6' 2 RCA to 2 RCA Audio Cable
- (2) 6' USB Cable
- (1) A.C. Power Cable
- (1) DVI to VGA Adapter
- (1) 3" Trackball, White
- (1) Trackball Plate for 3"
- (1) Card Reader Blanking Plate
- (1) Pushbutton Assy., Red
- (4) Pushbutton Assy., White
- (1) Pushbutton Assy., Blue Round Illuminated
- (1) Pushbutton Assy., Yellow Round Illuminated
- (1) Marquee, Golf Unplugged 2011
- (1) Control Panel Graphics Overlay, Golden Tee Unplugged 2011
- (1) Side Decal set, Golden Tee Unplugged
- (1) GoldenTee.com Card
- (1) Manual, Golden Tee Unplugged 2011
- (1) Quick Install Guide Golf LIVE Kit
- (1) Parts bag containing miscellaneous hardware
- (1) \*Fully-dressed Control Panel (Includes: assembled trackball, control panel overlay and buttons as a unit)

\*Fully-dressed Control Panel (Includes: assembled track ball, control panel overlay and buttons as a unit)

If any kit components are missing or damaged please contact Incredible Technologies Technical Support at 847-870-7027 x121. Replacement Parts can be found in Appendix C.

### RECOMMENDED TOOLS

Have the following tools ready before you begin to install this kit:

- ¼", 11/32" and 7/16" Sockets or Nut Drivers
- Phillips Head #2 Screw Driver
- 3/16", 7/32" and 9/32", or 5/16", 3/8", and ¾" Drill Bits
- 1 1/8" and 3 1/2" Hole Saw or Drill Bit
- Small Flat Blade Screwdriver
- Jig/Sabre Saw
- Router
- Push Button Nut Socket or Large Adjustable Pliers
- X-acto® Knife or other Sharp Knife/Razor Blade

- ❑ Wire Cutters
- ❑ Scissors
- ❑ Tape Measure
- ❑ Putty Knife
- ❑ Decal Roller/Squeegee
- ❑ Liquid Window Cleaner & Cleaning Cloth
- ❑ Vacuum Cleaner
- ❑ Any tools needed to remove parts from your existing cabinet not listed above.

## INSTALLATION PREPARATION

### BEFORE YOU START...

Before you install the Golden Tee Unplugged kit into your cabinet there are a few things you should check first:

1. Check to make sure your existing cabinet's monitor, speakers, AC power cord, lights, bill acceptor and coin mechanisms work. Replace or repair where necessary.
2. Check to make sure all the necessary parts are included in your kit. If any are missing/damaged please contact IT's Technical Support at 847-870-7027 x121.
3. Check to make sure cabinet is wired with standard earth grounded A.C. plug compatible with local building codes and/or safety requirements. If not, have a qualified electrician install one (not provided).
4. Have all the necessary tools available to install this kit. Refer to the recommended tools list to make sure you are prepared before you start.
5. Make sure any parts of the system (lights, monitor, etc.) are not plugged in. Working with any part of the system plugged in or powered on can be dangerous.
6. Keep in mind that it's been proven that the higher quality of work put into a kit installation results in a higher earning game. Make sure you have plenty of space, time, and focus to put into this kit installation.

## PREPARING THE CABINET

### CABINET SELECTION

You can choose either a new cabinet or a used cabinet for your Golden Tee Unplugged game. Reusing a cabinet is a cost-effective way to maximize the return on your initial investment. In either case, all you need to provide is the cabinet with a monitor, JAMMA harness, coin and bill acceptors, working fluorescent/marquee lights, and speakers.

When selecting a cabinet, keep in mind that a larger control panel allows you to mount the trackball farther from the monitor. This prevents players' hands from hitting the monitor glass when rolling the trackball forward, and will earn better than a smaller control panel closer to the monitor. An older-model Golden Tee Golf dedicated cabinet is ideal for this purpose.

If using a Golden Tee Fore! cabinet for this installation, consider ordering a new Control Panel from Incredible Technologies. These control panels come pre-installed with controls and graphics, and can save you considerable time and money through easy installation.

### PREPARING THE CABINET FOR INSTALLATION

Follow these steps to prepare your cabinet before installation:

1. Remove the following from the cabinet: Main Logic Board(s) (and hard drive if present), Control Panel, Monitor Viewing Glass, Marquee, and Power Supply. Now is a great time to clean both sides of the monitor viewing glass and monitor screen to ensure a clear view of the game.
2. Thoroughly clean out your cabinet. Remove all of the old buttons, joysticks, etc. **DO NOT** remove monitor and speaker wires or the wires that were previously hooked up to the control panel.
3. Remove the old graphics and adhesive from the cabinet including the control panel.
4. For a fresh look and best earnings, painting is highly recommended. Spray painting gives a better finish, but if an air brush or paint sprayer is unavailable a roller is second best. Remember to cover all exposed

surfaces not to be painted. When not installing into an existing Golden Tee Fore! dedicated cabinet, the recommended color choice is black.

5. Make sure to have the sides of the cabinet and the control panel as smooth and flat as possible to allow for a higher quality finish when applying the control panel background, labels, and side decals.
6. The "new game look" should always apply to the inside of your game as well. A few wire ties and shrink tubing on your harness, some fastening hardware on your subassemblies, and a sweep with the vacuum cleaner will help ensure that glitches do not occur.

### **Check JAMMA Harness and Wiring**

The Golden Tee Unplugged Kit comes with a special I/O Board that uses your cabinet's existing JAMMA wiring harness. Make sure your existing wires and connectors are in good working order. Check the JAMMA wiring diagram in Appendix B.

### **Check Coin Mechanisms and Bill Acceptor**

Make sure your coin mechanisms and bill acceptor are functioning properly, and your coin box and stacker are in good condition. You want to make sure your game will accept money when players are ready to play.

### **Check Coin Door Connections**

Your cabinet should already be wired correctly through the JAMMA connector. Now is a good time to make sure your game can accept money. Check the JAMMA pinout chart in Appendix B for the correct wire colors and pins. Trace the wiring to their sources and make sure they are connected properly and securely. Be sure the wires are away from the coin door where they can be pinched or crimped.

### **Check CRT Monitor (HDTV Recommended, See Page 5)**

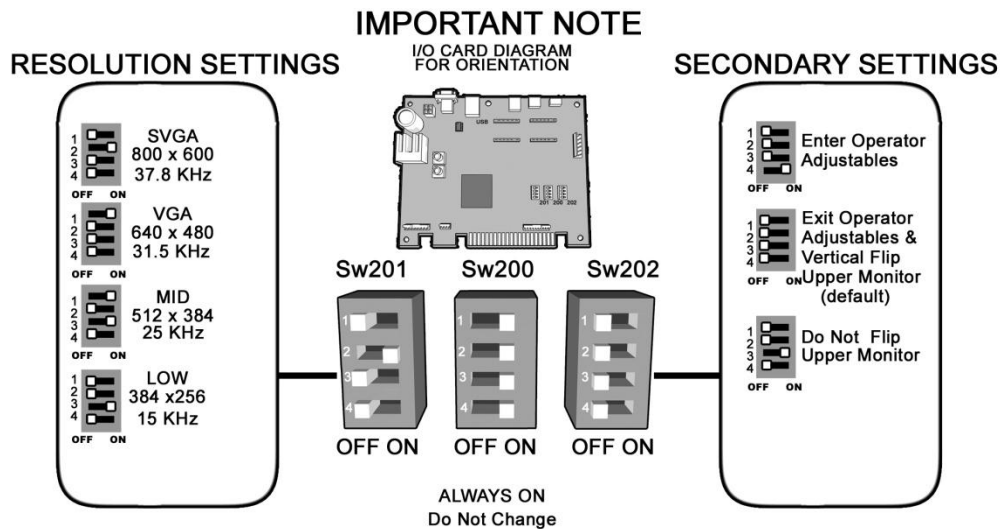
Golden Tee Unplugged has been designed to operate with SVGA (800 x 600), VGA (640 x 480), medium resolution (512 x 384) and low resolution (384 x 256) monitor systems. The factory monitors in all Golden Tee Fore! cabinets are compatible with Golden Tee Unplugged. However, to take advantage of the best and most current quality available, it is recommended to upgrade to an SVGA compatible monitor.

Operating Golden Tee Unplugged at the highest possible resolution will give your game the best results (and revenue). Many standard cabinets contain a medium-res. or VGA monitor already. If you have a low-res monitor, it may be possible to switch it to a higher resolution. If not, you should consider upgrading to a newer monitor.

Also check your monitor for a DB15 VGA connector. If your current monitor has a DB15 VGA connector, it is capable of VGA or SVGA resolutions. Check your monitor's manual on how to switch the monitor to VGA mode. Make sure the video DIP switches on the I/O board match the resolution that the monitor is expecting. Plug the video cable from the Nighthawk System box directly into the monitor. Be sure to disconnect the old composite sync video cable from the monitor.

When operating with an SVGA or VGA monitor, Golden Tee Unplugged uses the standard VGA sync timing and signals. When operating with medium resolution or low resolution monitors, which are common in Golden Tee Fore! dedicated cabinets, Golden Tee Unplugged operates with composite negative serrated sync.

# CRT MONITOR APPLICATION



**NOTE:** In all cases a horizontal mount raster scan monitor is required.

**CAUTION!** Monitors are extremely dangerous and can result in severe injury. Make sure you follow and observe all safety precautions as outlined in your monitor's manual. **ALWAYS** disconnect the power to the cabinet before working on or around the monitor.

## Check High-Definition Television (Optional)

Golden Tee 2011 supports a 720p resolution that is compatible with newer flat-panel LCD digital televisions. In addition, both 16:9 and 4:3 aspect ratios are supported. Refer to the Showpiece section of this manual for details on connecting video and audio to a 720p HDTV.

**NOTE:** Video and audio connections to these displays vary, and may require additional cables not included in the Golden Tee Unplugged kit. In addition, some televisions may not support the resolution needed for Golden Tee Unplugged. Check your television's manual for additional information.

**WARNING:** Be sure top of cabinet has at least 18" or 30cm of clearance in all directions. Insufficient clearance may result in damage to monitor or player injury.

## Remove Cabinet Graphics

Remove any decals from the cabinet. Make sure that the sides of the cabinet are as smooth and flat as possible to allow for a higher quality finish when applying the new side decals.

For a fresh look and best earnings painting is highly recommended. Spray painting gives a better finish, but if an air brush or paint sprayer is unavailable a roller is second best. Remember to cover all exposed surfaces not to be painted.

## Remove Existing Card Reader (If applicable)

If you are using a Golden Tee Fore! cabinet, the existing card reader must be removed. Golden Tee Unplugged does not require a card reader for operation. Install a metal plate to cover this opening.

## Vacuum Cabinet

The "new game look" should always apply to the inside of your game as well. A few wire ties and shrink tubing on your harness, some fastening hardware on your subassemblies, and a thorough sweep with the vacuum cleaner will help ensure that glitches do not occur.

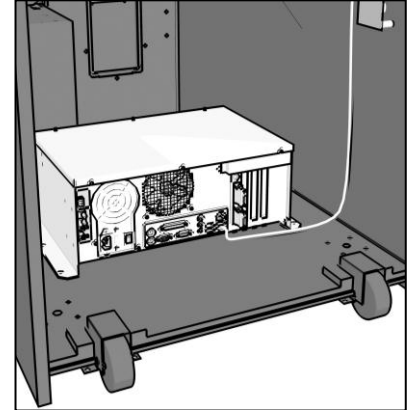
Dust and dirt can damage your hardware and cause problems with game play. Be sure that your cabinet is clean inside and out. It is highly recommended to vacuum your cabinet at least once a month, especially near the fans and vents, to avoid overheating and costly repairs.

## ELECTRONICS INSTALLATION

### INSTALL NIGHTHAWK SYSTEM BOX

The Nighthawk System box houses most of the game electronics and hardware into one box that can be easily installed. **Verify that the Nighthawk System box Power Switch is in the "ON" position.**

1. Locate the area on the floor where the system box will be placed. Make sure there is enough clearance to plug in cables.
  - ❑ The Nighthawk System box measures 19" W x 7" H x 11" D.
2. Relocate and secure any wires to make room for the system box.
3. Place the system box so it sits flat on the floor and does not pinch wires. Be sure there will be sufficient air flow to the system box. Overheating can damage your system.
4. Mount the system box with 6 - #6 x 3/4" Hex Washer Head Sheet Metal Screws.



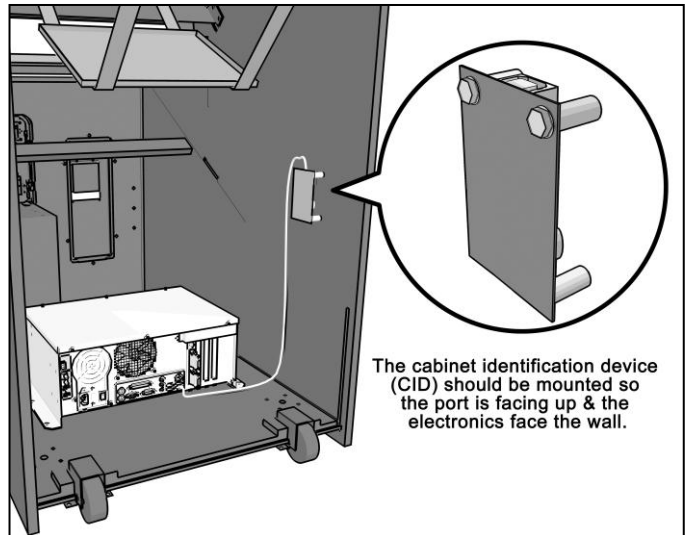
### INSTALL CABINET IDENTIFICATION DEVICE (CID)

The Cabinet Identification Device or C.I.D. is an innovative and important component. This device permanently identifies your cabinet as Golden Tee Unplugged. It should remain even if another component such as the I/O board or system box is replaced. The C.I.D. has a unique number to individualize the cabinet and is referred to as the Cabinet Identification Number.

1. Attach the C.I.D. to the inside side of the cabinet using the 2 - #6 X 1" Hex Washer Head Sheet Metal Screws. Mount so the port is facing up and the electronics face the wall.
2. Attach the USB cable from the Nighthawk System box.

- ❑ Place the included Cabinet Identification Number on the back of the cabinet for future reference. **Refer to this number to track your equipment and whenever you are calling in for service.**

- ❑ The Cabinet Identification Number is displayed in the operator menus in the lower right hand corner, and is labeled as Game ID. It is also displayed near the bottom of the initial boot-up screen.



The cabinet identification device (CID) should be mounted so the port is facing up & the electronics face the wall.

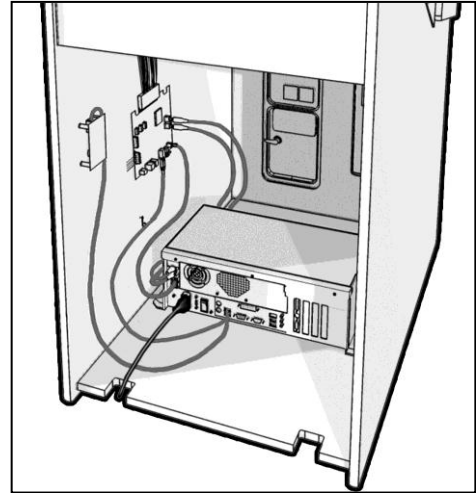
## INSTALL I/O BOARD

**NOTE: Before installing any electronics make sure cabinet power switch is in the OFF position and the cabinet power is unplugged from the wall.**

Golden Tee Unplugged comes with a specially designed I/O board that works with your cabinet's already installed JAMMA harness. The I/O board is used as a connection interface between the JAMMA and the Nighthawk System box.

Mount the I/O board inside the cabinet using 4 of the 6 x 3/4" Hex Washer Head Sheet Metal Screws, 1 in each corner. The existing JAMMA harness edge connector will attach to this board. Do not attach cables at this time.

**NOTE: Route all cables AWAY from the I/O Board. Laying cables on top of or below the I/O Board will result in unwanted noise or static during the game.**



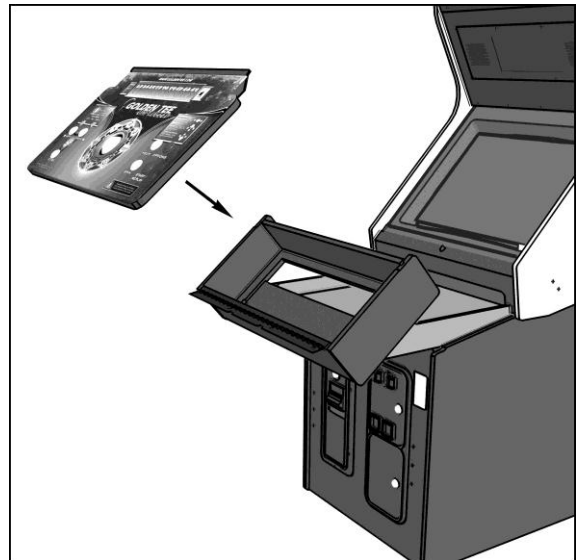
## CONTROL PANEL INSTALLATION

### INSTALL OPTIONAL CONTROL PANEL FOR EXISTING I.T. CABINETS

If you are installing your kit into an existing Golden Tee Fore! cabinet manufactured by IT, you can purchase a new, fully outfitted control panel. This will not only make your installation easier, it will make your game look and play better too. Use this section to install this control panel. For all other cabinet types, refer to the next section.

Attach the new control panel to the existing hinge on the control panel drawer. Drive the 4 Phillips screws into the holes in the bottom of the control panel. The control panel comes equipped with trackball and buttons in place. Snap the switches onto the buttons. Refer to the JAMMA wiring diagram to match up the correct wire to the correct button. The following buttons need to be connected: Left, Right, Fly-By, Help, Options, Spin and Start/Replay. Connect to the normally open post. Be sure common ground is connected to each common post.

Connect the 10-pin connector to the Control Panel connector J205 on the I/O board. Finally, connect the Trackball to the trackball connector J208 on the I/O board.



## TRACKBALL AND BUTTON PREPARATION (FOR MOST KITS)

Mounting the trackball and buttons correctly and securely is very important for the profitability and safety of your new game. This kit is designed for use in cabinets with  $\frac{3}{4}$ " thick wood control panels where proper routing of the control panel is used to create a safe playing experience. If you do not have a  $\frac{3}{4}$ " thick wood control panel, please replace your control panel or choose a cabinet with a  $\frac{3}{4}$ " thick wood control panel installed. Keep in mind that if your current control panel has many old holes in it from previous buttons, joysticks, etc. that it may be easier to start with a new solid control panel. This will give your game a better look and feel and help it to earn better.

**NOTE:** If the cabinet already has a trackball plate installed, discard and replace with the new trackball plate. The metal trackball mounting plate and trackball mounting procedure have been designed to remove all bolts from the playing surface. Routing the wood control panel is required so the metal mounting plate is flush with the panel surface. An uneven playing surface or exposed edges will affect game play and could impact your earnings.

**TIP:** Trackball and button templates can be found in Appendix G of this manual. They include:

- Trackball Orientation Diagram to orient your trackball correctly when installing.
- Trackball Mounting Template to install the trackball plate and make the appropriate routing.
- Button Set Templates to position and install control panel buttons.

### Trackball Preparation

Install the metal trackball plate by following these steps:

1. Cut out the template from Appendix G with a pair of scissors along the noted line. Tape this template to the top of the control panel as far away from the monitor as possible, making sure that the trackball will clear the cabinet beneath it. **NOTE:** Installing the trackball as far away from the monitor as possible will prevent players' hands from hitting the monitor glass when rolling the trackball forward.
2. Using a sharp object, mark the eight points shown on the template on the control panel. Using a pencil, trace the outside of the template. Remove the template.
3. Drill Holes 1-4 with a  $\frac{9}{32}$ " or  $\frac{5}{16}$ " drill bit.
4. Drill Holes 5-8 with a  $\frac{3}{4}$ " drill bit.
5. Route the crosshatched region to a depth of about .075" (about the thickness of a nickel).
6. Using a sabre saw cut out the center portion by cutting between holes 5-8.
7. Once you have cleaned up the routed area, install the trackball plate into the control panel using the  $\frac{1}{4}$ " Flat Washers and  $\frac{1}{4}$ -20 Nylon Hex Nuts. Be sure the mounting plate is flush with the top of the control panel.

**NOTE: At this time you are only installing the trackball plate, do not install the trackball yet.**

### Button Preparation

The following are the steps you should take to prepare your control panel for the installation of the button assemblies:

1. Cut out the template(s) (see Appendix G).
2. Using a tape measure, measure the specified distances from the center of the trackball hole in the trackball plate and make a mark the reference points indicated on the left and right button set templates (see Appendix G).
3. Lay each template over the appropriate reference marking point. Mark the centers of the remaining holes using a sharp object.
4. Drill a  $1 \frac{1}{8}$ " hole at each marked point.

**NOTE: Do NOT install the trackball or buttons until the control panel graphics have been applied.**

Once the installation is complete, be sure to use the System Controls test in the game's System Setup menus to ensure proper functionality of all the player controls.



## CONTROL PANEL OVERLAY INSTALLATION

Golden Tee Unplugged comes with an oversized control panel overlay that will accommodate a variety of existing game cabinets, but works best on Golden Tee Fore!, NFL® Blitz™ and EA Sports™ PGA Tour® Golf cabinets. Follow these instructions to correctly install the control panel overlay on one of these cabinets:

1. Make sure that the newly drilled control panel has a smooth, clean surface. Sand where necessary to make sure the graphics are installed on an even surface.
2. Clean the control panel to make sure it is free from dust, grease, metal filings, etc. Make sure that all residues (adhesive, overlay material, etc.) from the previous control panel graphics are removed. This will ensure a clean, easy, and beautiful application of the control panel graphics.
3. **It is very important that the trackball and control panel graphics be mounted perfectly straight.** Find the center of your trackball template and lightly draw vertical and horizontal guidelines on the control panel, marking out your centering lines.
4. Remove a small section of the protective backing from the overlay. Carefully center the overlay over the control panel by lining up the die-cut hole with the trackball template. **Be sure the graphic is positioned perfectly straight.** Line up your pencil guidelines with the lines incorporated into the art. Once in position, gently press down on the section with exposed adhesive, affixing the overlay into place. Once affixed, the overlay cannot be removed.
5. While holding down the overlay over the attached area, very carefully turn over one side and remove the exposed backing. Gently lay down the exposed overlay from the center outward, smoothing with your hands or a roller as you go. **Be sure the overlay remains straight and square.** Repeat the process with the other side of the overlay, so the entire surface is affixed to the control panel. Make sure all bubbles have been pressed out for a clean, flat surface.  
**TIP:** Liquid window cleaner can be sprayed onto the control panel before placing the overlay onto the control panel. The window cleaner will allow the overlay to be positioned with less risk of damage to the overlay or adhesive. Once in position, use a decal roller or squeegee to force any excess cleaner out. Be sure to add additional time for the liquid to evaporate.
6. Using a razor knife (or other sharp instrument) carefully cut around the edges of your control panel, trimming any excess material.
7. Find the center of each hole you've drilled out for the buttons and use the knife to poke a hole into the overlay. Make a vertical and horizontal line (like a plus sign) from the center of the hole to the edges. You should be able to place your button in later with no edges showing.

**CAUTION: If you choose to install a Plexiglas® cover over your control panel (not recommended), to ensure the safety of your players and the quality of your game make sure that all surfaces, edges and bolts that a player may come in contact with are smooth, safe and secure.**

## FINISHING THE CONTROL PANEL

1. Reattach the control panel to your cabinet adjusting any hinges or chains where necessary. Make sure not to pinch or crimp any wires while re-attaching the control panel.
2. Install the trackball into the trackball plate. The trackball must be oriented correctly in order to function properly. Refer to the diagram located in Appendix G for correct orientation. You will need the following parts in order to install the trackball correctly to the plate: 4 - 10/32 x 2½" Phillips Head Machine Screws, 4 - #10 Flat Washers and 4 - #10 Split Lock Washers **NOTE:** Do not over-tighten the trackball. It will warp and cause the trackball to not operate correctly.

**IMPORTANT!** Be sure to install your trackball securely, and maintain it regularly. Loose, worn, or incorrectly mounted trackballs can result in decreased earnings and possible injury to players.

3. Secure the trackball ground wire to the trackball plate at the 8-32 stud on one end with an 8-32 KEPS nut and the other end to the cabinet ground stud (usually located near the AC power cord inlet) using an 8-32 KEPS nut.
4. Install the buttons in the holes located on your control panel. Make sure you use the red button assembly for the Start button.
5. Attach the micro switches to your newly installed buttons and connect the wires up to the correct pins on the JAMMA harness.



**NOTE:** The post on the switch labeled COM should connect to the ground wire and the post labeled NO should connect to the signal wire. See the JAMMA pin out chart in Appendix B.

**IMPORTANT!** Trackball and trackball plate **MUST BE GROUNDED** to Earth Ground to prevent damage to the trackball or game electronics.

# COMPLETE SYSTEM BOX CONNECTIONS

Follow these procedures to correctly connect the various electronic components. Be sure the cables are connected securely and in working order. Use cable clamps, with appropriate tension, where necessary to ensure all cables stay in place during operation. Dress all cables with additional clamps and wire tie wraps where needed. Avoid loose wires or disconnected cables, as they can cause an unneeded service call.

## ATTACH I/O POWER, AUDIO, AND USB CABLES

- ◆ **I/O board power cable** Connect from the I/O board to one of the two 4-pin power output connectors on the system box.
- ◆ **Audio cables** Connect to the audio output jacks of the system box. Match the appropriate colors.
- ◆ **USB cable #1** Connect from the I/O board to any USB port on the system box.
- ◆ **USB cable #2** for Cabinet Identification Device (CID). Refer to the CID Installation Section for proper orientation and placement of the CID.

## ATTACH MAIN VIDEO CABLE

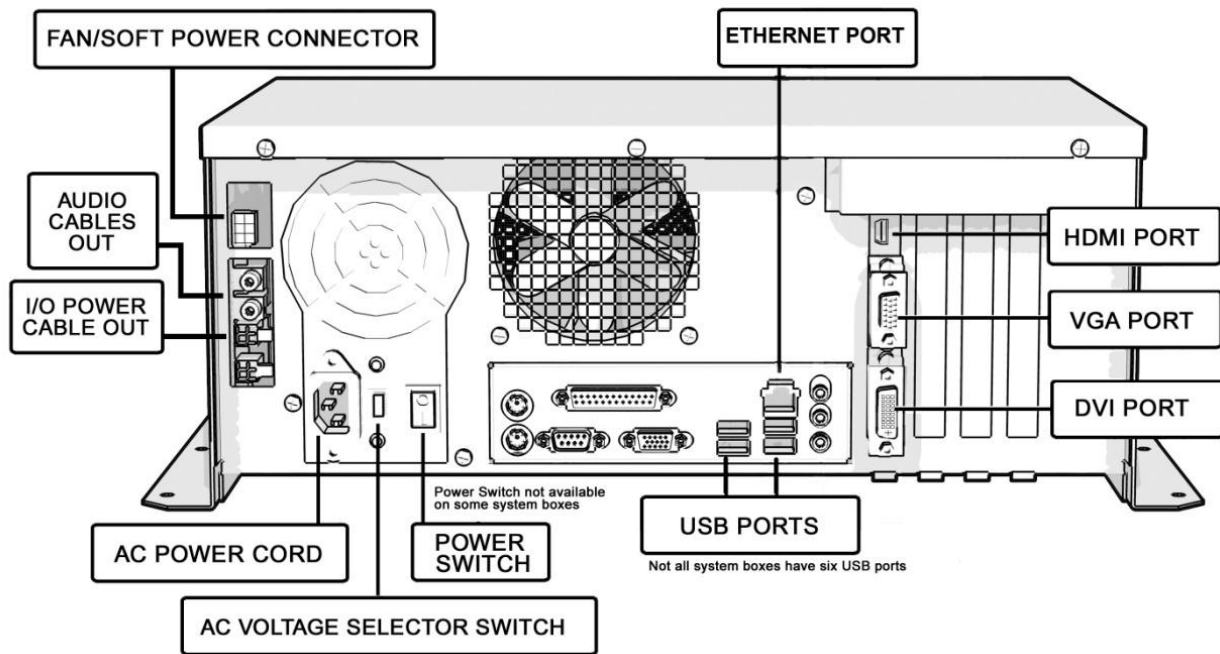
If your cabinet has a VGA or SVGA monitor, connect the video cable from the system box directly to the VGA or SVGA monitor input.

If your cabinet has Medium or Low Resolution monitor, connect the video cable from the system box to the I/O board.

Be sure to adjust your DIP Switch settings to match your monitor's resolution. Refer to Appendix D.

## ATTACH POWER CABLE

Use the AC power cord that is currently in your cabinet. The cord plugs into the System box. Have a qualified electrician do the wiring. Verify A.C. main voltage selector switch is in the proper position. In North America the setting is 115 volts AC. In some countries this should be set at 230 VAC.



# COMPLETE I/O BOARD CONNECTIONS

## CONNECT JAMMA HARNESS

Connect the JAMMA Connector to the I/O Board. Be sure it fits tightly and is oriented correctly.

## CONNECT THE CONTROL PANEL SWITCHES AND CABLE

Snap the switches onto the buttons. Connect the Control Panel wiring harness using the JAMMA wiring chart found in Appendix B.

## CONNECT COIN DOOR LAMPS

Connect the coin door lamp cable to the pigtail off the I/O Power cable. If your cabinet originally had a Golden Tee Fore! green PCB, then use the 9-pin connector. If your cabinet had a Golden Tee Fore! red PCB, then use the 4 pin connector. Find the mating connector leading to the coin door to make your connection.

## CONNECT THE TRACKBALL

Locate the Trackball Cable and connect it to the connector labeled Trackball on the I/O board. The other end will connect to the trackball. Connect the green earth ground wire to the trackball plate.

## CONNECT AUDIO CABLES

Locate the Audio Cables already connected to the system box, and connect them to the I/O board audio inputs. Inputs are color coded, so be sure to connect red to red, etc.

## CONNECT THE USB CABLE

Locate the 6 ft. USB Cable from the system box and connect it to the USB port on the I/O board.

## CONNECT MEDIUM OR LOW RESOLUTION MONITOR

If your cabinet has a Medium or Low Resolution monitor, you need to connect the video to the I/O board. Connect the SVGA Video cable from system box to the J501 connector on the I/O Board. Connect the Red, Green, Blue video outputs, the composite sync, and video ground from the JAMMA connector to the appropriate monitor inputs. To find the correct JAMMA pin outs refer to the diagram in Appendix B. Be sure to set the Video DIP Switches on the I/O Board to match your resolution. Refer to the diagram in Appendix D.

## CONNECT VGA OR SVGA MONITOR

VGA or SVGA monitors are connected directly to the system box video output. Do not connect a video cable to the I/O Board if you are using these resolutions. (See Showpiece section for HDTV Applications)

## CONNECT I/O POWER CABLE

Connect the I/O Power cable to the power input connector. Use the end with the pigtail. The other end connects to the system box.

## CHECK ALL CONNECTIONS

Go over your entire cabinet again and double-check all of the connections. Make sure that all connectors are tight and secure and in their proper place. Look for frayed, broken or exposed wiring and repair as needed. Bundle and wire-tie your wiring and secure it to the inside of the cabinet. A thorough and neat job now will save you a lot of time and trouble in the future.

# CABINET GRAPHICS INSTALLATION

Included with your Golden Tee Unplugged kit is a set of decals to place on the side of your cabinet and a brand new marquee. This will help identify your new game as Golden Tee Unplugged. By placing and installing these correctly it can help give players instant recognition, even from a distance.

## SIDE DECAL INSTALLATION

The following are the instructions on placing your side decals correctly on to the cabinet:

1. Locate the place where the side decals will be viewed best on your cabinet. Refer to the diagram included on the decal sheet and to the right of these instructions for optimal placement.

**NOTE:** Make sure to have the sides of the cabinet as smooth and flat as possible, removing all previous residue from prior decals, to allow for a higher quality finish.

**TIP:** Liquid window cleaner can be sprayed onto the sides of the cabinet before placing the decals. The window cleaner will allow the decal to be removed and re-installed without damaging the decal or adhesive. The decal roller or squeegee forces the cleaner out, leaving just the adhesive.

2. Remove the first of the new cabinet side decals from the backing.
3. Center the first decal on the location selected for your cabinet.
4. Using your hands (or a decal roller/squeegee), press down firmly starting from the center and smooth the side decal outward. Make sure all bubbles have been pressed out for a clean, flat surface.
5. Repeat for each of the remaining side decals.



## MARQUEE INSTALLATION

The following are the instructions for placing the new marquee in your cabinet:

1. Using the old marquee glass as a template, center the glass on top of your new marquee. Make sure that all the printed images are visible.
2. Using an X-acto® knife or other sharp blade, score the new marquee deeply by following the edges of the old glass as a guide.

**CAUTION:** Do not cut on table or counter top. Use a cutting board or a disposable surface.

3. Carefully break off any excess material you have cut off.
4. Be sure the light behind the marquee works.
5. Clean the glass on both sides to give players a clear view of the new marquee.
6. Install the marquee graphics and glass securely.



# FINAL CONNECTIONS

## COIN DOORS, TEST SWITCH, AND VOLUME CONTROLS

Wire the coin doors as per the JAMMA Harness Connection table in Appendix B. Connect the door lamps to the appropriate (+12Vdc or +5Vdc) supply. Some games have separate power supply outputs for the lamps. Install a test switch somewhere convenient inside the coin door area. This switch allows you to enter adjustables, run diagnostics, and see or clear audits. Make it readily accessible through the coin door. Wire it to the Test wire on the JAMMA Harness. Golden Tee Unplugged has the ability to adjust volume at any time during a game. Install two push button switches (not included) inside the coin door for easy access. Connect the switches to the JAMMA harness. Refer to the JAMMA Harness Connection table in Appendix B.

## INITIAL POWER-UP

There are several steps you should take when powering up your Golden Tee Unplugged for the first time. This is a quick checklist for you to follow when doing your first initial power-up:

- ❑ Plug in the game and turn it ON; be sure the game powers up correctly into the attract mode.
- ❑ Adjust volume levels to desired settings.
- ❑ Adjust monitor settings for best picture.  
**NOTE:** Sound and Video Tests are available through the System Tests Menu. They are beneficial when making any adjustments. Proper monitor and sound adjustment is very important.
- ❑ Try all money slots. Drop quarters or tokens through to check the coin mechanisms and insert a bill into the bill acceptor. Make sure the game is adding credits.  
**NOTE:** Golden Tee Unplugged supports most bill acceptors. Installing a bill acceptor is highly recommended and will increase your earnings. Refer to your bill acceptor's manual for installation specifications. The bill acceptor can be wired to coin door 3 on the JAMMA.
- ❑ Test all of the player input controls. You can use the PLAYER CONTROL TESTS in the SYSTEM SETUP MENU.
- ❑ Upon initial power-up the game is set to factory default settings. These settings affect game elements such as number of credits per coin, volume settings, etc. The SYSTEM SETUP MENUS section will describe how to alter these settings for your location.

**Congratulations! You have finished installing  
Golden Tee Unplugged!**

# SYSTEM SETUP MENUS

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## NAVIGATING THE MENU SYSTEM

The System Setup menus cover a variety of important areas including collections, tests, game adjustments, and optional settings. You should familiarize yourself with these menus, as they are designed to optimize your game for your location and your business. Pay particular attention to the Collection menus, as they will detail how much money to give to your location and help you maximize your investment.

## ENTERING SYSTEM SETUP MODE

There are two ways to enter System Setup. Open the coin door and press the Test button to access the game's System Setup software menu system. Or, from the I/O board, move the DIP switch SW202 position 4 to the ON position. This switch needs to be moved back to OFF to exit the System Setup menus. Refer to the diagram in Appendix D for all DIP switch settings.

## SELECTING A MENU

A menu option can be selected at any time by rolling the trackball up or down or by pressing the Left or Right buttons.

## CHOOSING A MENU/OPTION

A menu option can be chosen at any time by pressing the Start Button.

## CHANGING A VALUE

A value can be changed at any time by rolling the trackball left or right.

## MAIN MENU

The Main Menu displays five main areas that make up System Setup mode. Please familiarize yourself with these areas, as they will help you maximize your earnings potential.

### Collections & Earnings – See Page 28

This section displays your machine's monetary activity, and details the various areas for income and expenses. This section should be reviewed during every collection, to make sure you manage your split correctly.

### General Settings – See Page 29

This area allows you to change operator adjustables, perform system tests, and reset your game back to factory settings.

### Troubleshooting Shortcuts – See Page 40

This section presents a variety of tests and menus that will help you troubleshoot any problems you may be having with your game. The available sections are also accessible through the other main sections.

### Golden Tee Settings & Audits – See Page 40

This area allows you to adjust settings specific to Golden Tee Unplugged including the player cost schedule, game features, and game audits.

### ITNet Settings (Not available on Unplugged)

Golden Tee Unplugged is an offline product. The ITNet menu is not available.

### Exit

This will exit the System Setup menus and take you back into the game's attract mode.



# COLLECTIONS & EARNINGS MENU

This menu allows you to perform a collection or view various earnings and fees.

## Do Collection

This section is used when making a collection. The various screens will detail the cost breakdowns and show you how much of the cash box is to be paid to the location. Please take some time to familiarize yourself with this section. Using it wisely can save you money.

## Clear Unused Cash

Sometimes when you go to make your collection, there is money in the game that has not been played yet. Use this setting to clear the unused cash from the screen, so your future collections will reconcile with game play.

## Add Free Cash

Use this setting if you wish to add money to the game for free plays that do not advance the hard meter.

## Back

This will take you back to the **Main Menu**.



# DO COLLECTION

This screen is the main collection screen. There is a lot of helpful information displayed that will help you with your collection. It is highly recommended that you view this screen with every collection, and reset it when your collection is complete.

This screen displays the following helpful information:

## Collection Date Range

The displayed dates are from your last collection until today.

## Days In Operation

The number of days the machine was active and available for play since the last collection.

## Reset

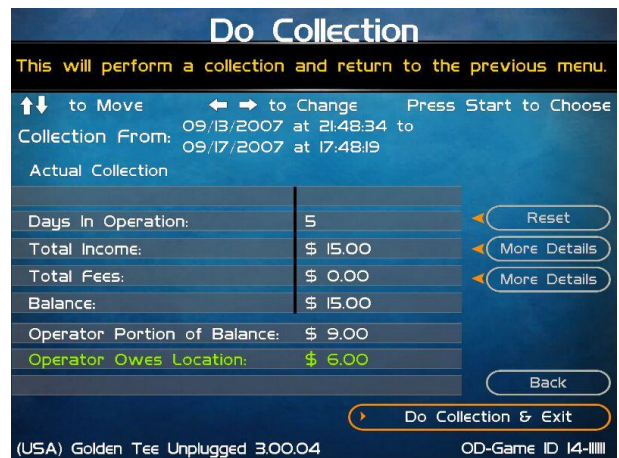
Highlight this to reset the number of days in operation field.

## Total Income

The total income your machine made for this time period.

## More Details

This brings up a second menu that further details income amounts.





## Total Fees

The total of the various fees that need to be set aside before making your split.

## More Details

Select this to display a breakdown of the various fees, including Hardware Upgrade fees and tax splits.

**Note! Hardware Upgrade Fees are included for your convenience, to help you cover the costs of owning and operating your equipment.**

## Balance

The total income minus the total fees.

## Operator Portion of Balance

The amount of the collection that the operator keeps.

## Operator Owes Location

The amount of the collection that you pay your location.

## Back

If you do NOT wish to perform a collection and reset the audits, highlight Back to exit this screen and return to the **Collections & Earnings** menu.

## Do Collection and Exit

If you wish to perform a collection and reset the audits (recommended), highlight Do Collection and Exit and press Start. This will set all the fields in the Do Collection screen to zero. Be sure to empty your cash box at the same time, so these screens will match the money at your next collection.

## GENERAL SETTINGS

The General Settings menu houses various adjustable settings relating to the cabinet, and is divided into three sections.

### Operator Adjustables

This area allows you to adjust options like volume, attract mode sounds, collection settings and money slot settings.

### System Tests

This area allows you to perform diagnostics including video adjustments, input tests, and sound tests.

### Back

This will take you back to the **Main Menu**.



## OPERATOR ADJUSTABLES

This menu contains adjustable settings that pertain to you and your business. Please familiarize yourself with this section, as it can help you maximize the game's earning potential.

### General Adjustments

This area allows you to adjust options like coin message and money modes.

### Money Slot Adjustments

This area allows you to adjust the settings of your various money slots on your cabinet.

### Sound Adjustments

This area allows you to adjust the various sound settings including attract mode sounds, game volume, and stereo setup.

### Collection Settings

This important area allows you to adjust various fees and splits for your collections.

### Reset To Factory Settings

This option allows you to reset all the settings found in the Operator Adjustables section to factory defaults.

### Back

This will take you back to the **General Settings** menu.



## GENERAL ADJUSTMENTS

### Coin Message

The default is set to Insert \$.

### Accept Credit Card (Not available)

This selection is not available on Golden Tee Unplugged.

### Game Mode

This lets you toggle between money/free play. **The default is set to Money Play.**

### 2<sup>nd</sup> Monitor Mode

You can add an external monitor to your dedicated or kit game by connecting it to the appropriate video output on the Nighthawk Chassis. Use this setting to select from SVGA and S-Video signals.

### 2<sup>nd</sup> Monitor Output

A second monitor can be added to clone the main monitor output.

### Reset Values

This resets all values to their default value located on this page.

### Back

This will take you back to the **Operator Adjustables** menu.



## MONEY SLOT ADJUSTMENTS

### Money Slot 1 (all machines)

This adjusts how much one pulse equals for Money Slot 1. **The default is set to \$0.25.**

### Money Slot 2 (kits only)

This adjusts how much one pulse equals for Money Slot 2. **The default is set to \$0.25.**

### Money Slot 3

This adjusts how much one pulse equals for Money Slot 3. **The default is set to \$0.25.**

### Credit Card (Not available)

This selection is not available on Golden Tee Unplugged.

### Reset Values

This resets all values to their default value located on this page.

### No

This will not perform the reset and take you back to the previous menu.

### Yes

This will perform the reset and take you back to the previous menu.

### Back

This will take you back to the Operator Adjustables menu.



## SOUND ADJUSTMENTS

### In Game Volume

This option lets you adjust the In Game volume from OFF to 100%. **The default is set to 30%.**

### Attract Volume

This option lets you adjust the Attract Mode Volume from OFF to 100%. **The default is set to 30%.**

### Attract Mode Sounds

This adjusts how often sounds are played in the attract mode: Never, Rarely, Sometimes, Often, and Always. **The default is set to On - Sometimes.**

### Stereo/Mono

This option is where you select stereo or mono setup. **The default is set to Stereo.**

### Reset Values

This resets all values to their default value located on this page.

### Back

This will take you back to the **Operator Adjustables** menu.

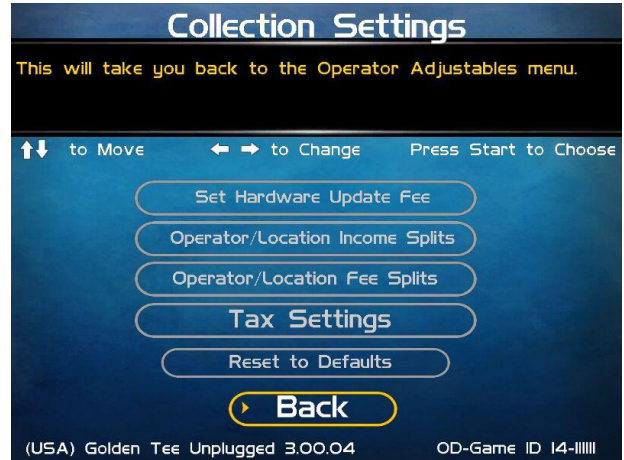


## COLLECTION SETTINGS

Golden Tee Unplugged allows you to adjust costs and percentages for the various income types that are received. Use this menu to determine how much you want your location to help you pay for these charges and services.

### Set Hardware Update Fee

This menu allows you to adjust the Hardware Update Fee. This fee is included for your convenience, as a method to have the location pay for part of your equipment. The default value for 2011 machines is \$0.00 per week. Adjust this value to an appropriate amount for your location.



**Note!** Hardware Update Fees are included for your convenience. No income is sent to IT on Golden Tee Unplugged.

### Operator/Location Income Splits

Use this menu to fine-tune your splits for any generated income. The default settings are displayed on the accompanying screen.

The adjustable settings refer to income generated from:

**Cash**

**Player Account (Not available)**

**Credit Card (Not available)**

**ITNet Money Card (Not available)**

**Operator Money Card (Not available)**

Golden Tee Unplugged takes cash only.



### Operator/Location Fee Splits

Use this menu to determine how you wish to split the various fees with your location. For example, since there is a fee associated with credit card usage, you may want to adjust the split in your favor to help cover the costs of the transaction fees.

**ITNet Fees (Not available)**

**Prize Fund Fees (Not available)**

**Credit Card Fees (Not available)**

**Communication Fees (Not available)**

**Software Update Fees (Not available)**

**Hardware Update Fees**

Golden Tee Unplugged is an offline product and has no fees or income from online sources.

Hardware Update Fees are added for your convenience if you wish to have the location help pay for your equipment.



## Tax Settings

Many states require special taxes or license fees that affect your bottom line. Use this menu to separate these costs from your collection before making your normal split.

### Set Tax Rate

This menu allows you to adjust your current tax rate percentage.

### Set Tax Type

This menu helps you determine what part of the collection is taxed, and who pays for these taxes.

### Set Tax Split

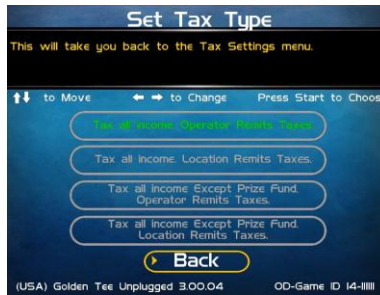
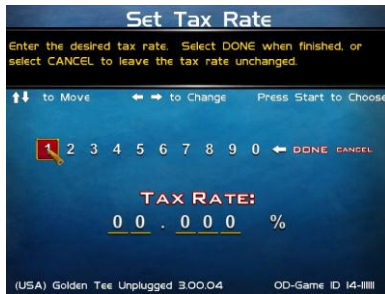
This menu allows you to split the tax fees with the location.

### Reset to Defaults

This menu will set all of the collection settings to their factory default values. A verification screen will display to make sure you agree to the change.

### Back

This will take you back to the **Collection Settings** menu.



## RESET TO FACTORY SETTINGS

This menu will reset ALL settings in the Operator Adjustments section to their default values. A verification screen will display to make sure you agree to the change.

### Please Note:

This process may take several minutes to complete.



## SYSTEM TESTS

This area allows you to perform diagnostics including video adjustments, input tests, and sound tests.

### Video Tests

This area has tests that will help you to adjust your game's color, contrast, and screen size.

### Sound Tests

This area has tests that will help you adjust your game's audio setup by playing a stored sound, a streaming sound, and testing the speaker(s).

### Player Control Tests

This option allows you to test all inputs including trackball, buttons, and money slots.

### Mechanical Meter

This test makes the hard meter adjust by one to make sure it is functioning properly.

### Hardware Tests

This area includes a series of diagnostic screens and tests to help you make sure your game is functioning correctly.

### Back

This will take you back to the **General Settings** menu.



## VIDEO TESTS

The Video Tests section has a variety of tests that will help you adjust your monitor.

### Color Test

This area will take you to a series of tests to adjust your monitor's RGB settings to have each color display properly.

### Contrast Test

This area will take you to a series of tests to adjust your monitor's brightness/contrast so the game displays properly.

### Screen Size Adjustments

Use this screen to align your monitor so that all the circles appear as circles and the boundary line appears on the edge of each side of the screen.

### Back

This will take you back to the **System Tests** menu.



## COLOR TEST

### Color Grid Adjustment

Adjust your monitor to have each colored box display properly.

### Red Screen

Adjust your monitor to have red display properly.

### Green Screen

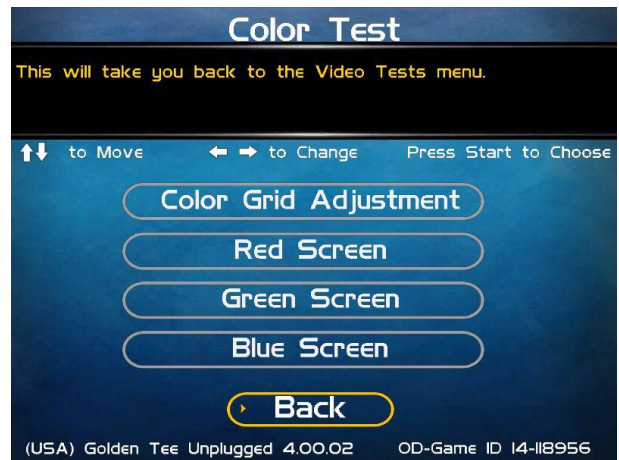
Adjust your monitor to have green display properly.

### Blue Screen

Adjust your monitor to have blue display properly.

### Back

This will take you back to the **Video Tests** menu.



## CONTRAST TEST

### White Screen

Adjust your monitor to have white display properly.

### 50% White Screen

Adjust your monitor to have 50% white display properly.

### 25% White Screen

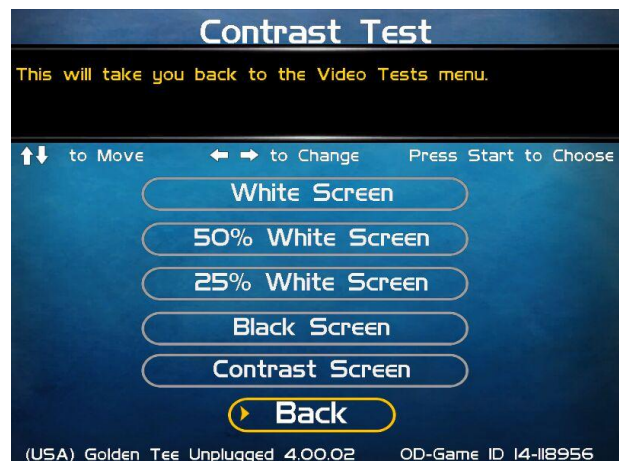
Adjust your monitor to have 25% white display properly.

### Black Screen

Adjust your monitor to have black display properly.

### Contrast Screen

This option is a test you can use to adjust your monitor's contrast and brightness settings to have the boxes displayed properly.



**Note:** *May not work on older or often used monitors.* If you have a monitor that's old or has been used often you may not be able to adjust the contrast and/or brightness levels accordingly. In this case adjust the monitor for best performance while getting close to the recommended settings.

### Back

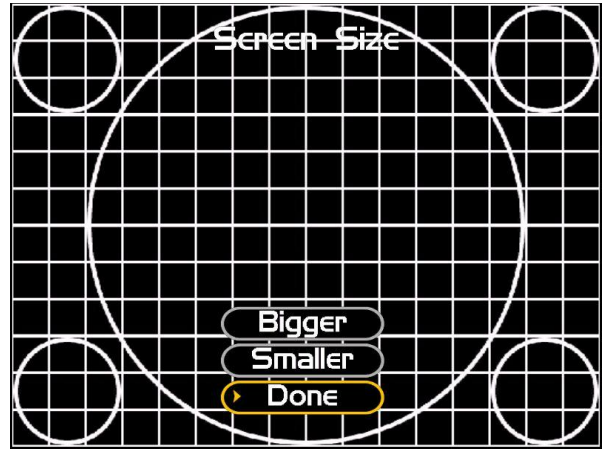
This will take you back to the **Video Tests** menu.

## SCREEN SIZE ADJUSTMENT

Use this screen to adjust the size and aspect ratio of your picture. Press the Start button to exit.

If you are using an HDTV display, you may need to adjust this screen to see the complete image. Use the trackball to highlight BIGGER or SMALLER and press the Start button to adjust the screen image. Press DONE to exit.

**NOTE: Adjusting the screen size will prompt a reboot upon exit of this menu.**



## SOUND TESTS

### Stored Sound

This will play a stored sound so you can make sure your audio setup is functioning properly.

### Streaming Sound

This will play a streaming sound so you can make sure your audio setup is functioning properly.

### Speaker Test

This test will say MONO if you have your game set to Mono or LEFT and RIGHT if you have it set to stereo so you can make sure your audio setup is functioning properly.

### Back

This will take you back to the **System Tests** menu.

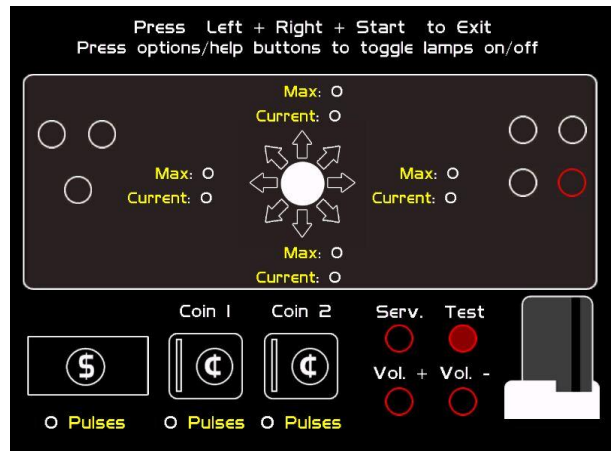


## PLAYER CONTROL TESTS

Use this screen to test all of the inputs, including the trackball, buttons, and money slots. When an input is active the appropriate graphic image will light. Press the Left, Right and Start buttons simultaneously to exit this test screen.

When testing the trackball, the Current value will change depending on the direction the ball is spinning. The Max value will display the largest number reached during the test. There is no exact number to determine whether a trackball is malfunctioning, but in general the Max number should be close to the same when spinning up and down, and close to the same when spinning left and right.

When testing coin and bill acceptor switches, the number of pulses read will be displayed below the appropriate image.





## MECHANICAL METER TEST

### Click Meter

This test makes the hard meter adjust by one to make sure it is functioning properly.

### Back

This will take you back to the **System Tests** menu.



## HARDWARE TESTS

This area includes a series of diagnostic screens and tests to help you make sure your game is functioning correctly.

### Hardware/Software

This area has options to view your system, USB and version info.

### Check Hard Drive

This test checks the integrity of your hard drive's data. **Note:** *This test can take several minutes.*

### Check Cooling

This test helps you make sure your game is functioning at the proper temperature and all fans are working.

### Check Card Reader (Not used on Unplugged)

This selection is not available on Golden Tee Unplugged.

### Back

This will take you back to the **System Tests** menu.



## HARDWARE/SOFTWARE

### System Info

This is a list of your game's current basic system info.

### USB Info

This is a list of your game's current USB devices.

### Version Info

This is a list of your game's software version information.

### Back

This will take you back to the **Hardware Tests** menu.

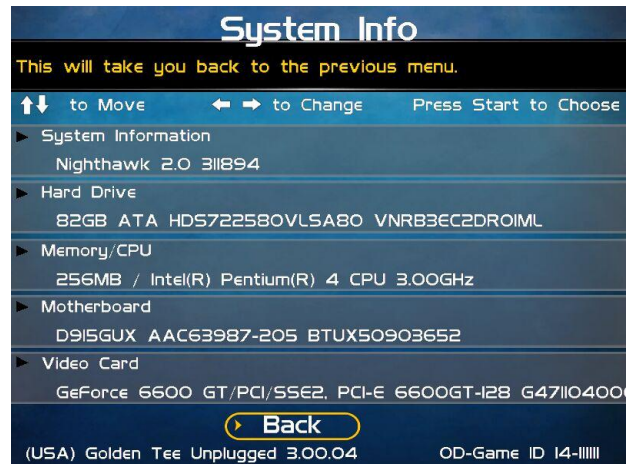


## SYSTEM INFO

This is a list of your game's current basic system information, including Hard Drive, CPU and Video Card.

### Back

The Back button takes you back to the **Hardware/Software** menu.



## USB INFO

This is a list of your game's current USB devices.

### Back

The Back button takes you back to the **Hardware/Software** menu.

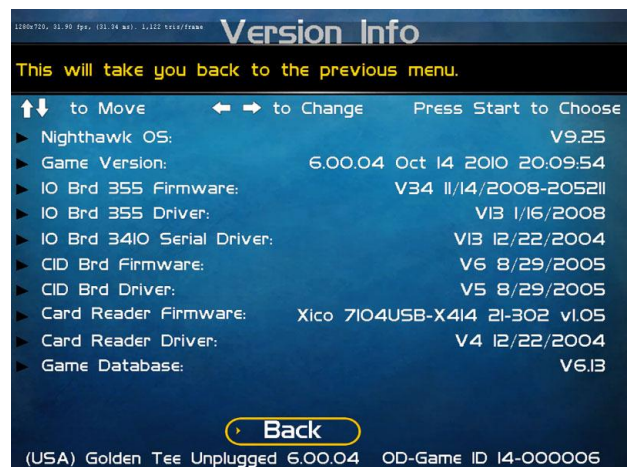


## VERSION INFO

This is a list of your machine's software versioning.

### Back

The Back button takes you back to the **Hardware/Software** menu.



## CHECK HARD DRIVE

### Check File Data

This test checks the integrity of your hard drive's data.

Select **Begin Test** to initiate the process.

**Note: This test can take up to 3 hours to complete.**

If this test succeeds you will see the message: **Status: Hard Drive Functioning Properly.** If this test fails, you will see the message: **Hard Drive Error (#)**

Select **Back** to skip the test and return to the **Check Hard Drive** menu.

### Check File System

This test REBOOTS YOUR GAME and performs a low level systems check of the integrity of your hard drive.

**Note: This can take several minutes.**

### Back

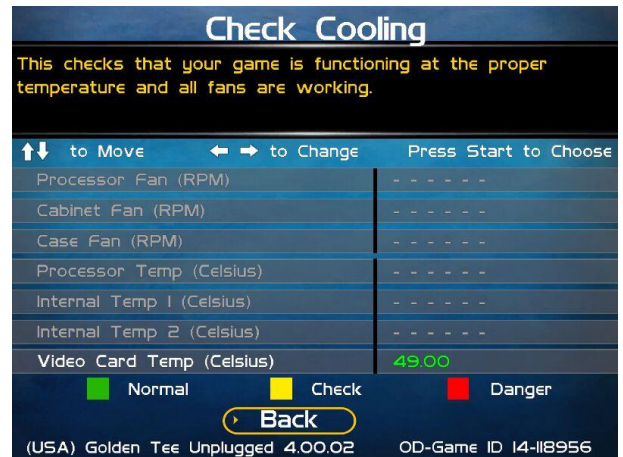
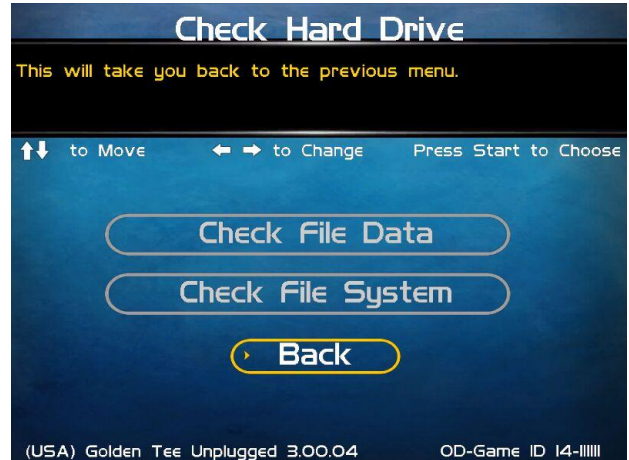
This will take you back to the **Hardware Tests** menu.

## CHECK COOLING

This checks that your game is functioning at the proper temperature and all fans are working. The current status is color-coded for easy viewing. If the results are displayed in green, your cabinet is at normal settings.

### Back

The Back button takes you back to the **Hardware Tests** menu.



## TROUBLESHOOTING SHORTCUTS

This section gathers many of the commonly used tests and menus into one convenient area. Check here first when troubleshooting problems or questions about the integrity of your machine.

The tests that are available in this section are:

- Check Card Reader** (Not available on Unplugged)
- Check Cooling**
- Check Hard Drive**
- Screen Size Adjustments**
- Communications Settings** (Not available on Unplugged)
- Player Control Tests**
- System Tests**

Descriptions of each of these tests and sections can be found elsewhere in this manual.

### Back

This will take you back to the **Main Menu**.



## GOLDEN TEE SETTINGS & AUDITS

### Golden Tee Settings

This section allows you to make custom adjustments to certain features on your machine, such as the delay of game timer.

### Golden Tee Audits

This area allows you to view your money audits, game purchase audits, and reset audits.

### Player Cost Schedule

This option allows you to adjust the amount of money it costs a player to play various game types.

### Change Classic Courses

Golden Tee Unplugged 2011 offers a total of 10 courses to players, five 2010 courses and a selection of 5 of 15 "classic" courses from previous years. Use this setting to select the 5 preferred courses for your location. The default for the "classic" courses is all five 2010 courses.

### Reset Leaderboards & Records

This area allows you to clear any or all local Leaderboards and high score screens. Note: This process may take several minutes to complete.

### Back

This will take you back to the **Main Menu**.



# GOLDEN TEE SETTINGS

## LIVE Prizes (Not available)

Prize play is not available on offline games.

## Delay of Game Timeout

Adjust the timer that senses activity between shots.

## Closest To The Pin LIVE (Not available)

Live play is not available on offline games.

## Operator CTP

Activate the ability for the game to enter Closest to the Pin (CTP) mode. This version of CTP does not display any sponsored or branded game elements.

## Activate Sponsored CTP (Not available)

Sponsored CTP is not available on offline games.

## Hole-N-Win (Not available)

Hole-N-Win is not available on offline games.

## More

Selecting More brings you to a second page of Golden Tee settings.

## Locked Conditions (Not available)

Locked Conditions are not available on offline games.

## Free Holes in Attract Mode (Not available)

This feature is not available on offline games.

## Difficulty

You can set the difficulty of the courses, to adapt the game to the needs of your specific location. Difficulty settings can be adjusted from 1 (easiest) to 5 (hardest). The default setting is 2.

## Quirky Screens in Attract

Golden Tee Unplugged 2011 displays a series of quirky and entertaining screens in the attract mode, designed to capture the attention of potential players and entice them to try the game. If for some reason you wish to turn off these attract screens, you can do so here.

## Mulligans

Mulligans allow casual game players to retake a bad shot during their game. To disable this feature select OFF.

## Reset Values

This will reset all Golden Tee Settings to their factory defaults.

## Back

This will take you back to the **Golden Tee Settings & Audits** page.



## GOLDEN TEE AUDITS

This section displays various counts and totals for a variety of areas of interest. The following values are based on the last reset, the date of which is shown at the top of the screen.

**Number of 18 Hole Purchases**  
**Number of 9 Hole Purchases**  
**Number of 1 Hole Purchases**  
**Number of Skins Play Purchases**  
**Mulligans Purchased**  
**Coin Slot 1**  
**Coin Slot 2**  
**Bill Acceptor**  
**Lifetime Money In**

This field shows how much total money your machine has made. This field is cumulative and is not affected by resetting the audits on this screen.

Golden Tee Audits	
This selection will take you back to the previous menu.	
↑↓ to Move	← → to Change Press Start to Choose
Audits were last reset on at 18:00:00	
Number of 18 hole purchases	2
Number of 9 hole purchases	0
Number of 1 hole purchases	0
Number of skins play purchases	72
Mulligans purchased	0
Coin Slot 1	\$ 4.00
Coin Slot 2	\$ 0.00
Bill Acceptor	\$ 4.25
Lifetime Money In	\$ 8.25
Reset Audits	
Back	
(USA) Golden Tee Unplugged 5.00.03 OD-Game ID I4-000070	

### Reset Audits

This will reset the fields on this screen to zero, and update the date of the last audit reset. The Lifetime Money In field will not be affected by this function.

### Back

Select this to return to the **Golden Tee Settings & Audits** menu.

## PLAYER COST SCHEDULE

This screen details the costs of various play selections. The player cost is shown as a total, with the Operator Portion and the ITNet Portion broken out.

### Play Golf (18 Holes)

This option lets you adjust how much it costs a player to play an 18-hole game. **The default is set to \$3.00.**

### Play Golf (9 Holes)

This option lets you adjust how much it costs a player to play a 9-hole game. **The default is set to \$2.00.**

### Play Golf (1 Hole)

This option lets you adjust how much it costs a player to play a single hole of Golf. **The default is set to \$0.25.**

### Mulligans

This option lets you adjust how much it costs a player buy a Mulligan and repeat his shot in Casual Play mode. **The USA default is set to \$0.25.**

### Skins (3 Holes)

This option lets you adjust how much it costs a player to play 3 holes in Skins Play mode. **The default is set to \$0.75.**

### Skins (9 Holes)

This option lets you adjust how much it costs a player to play 9 holes in Skins Play mode. **The default is set to \$2.00.**

### Skins (18 Holes)

This option lets you adjust how much it costs a player to play 18 holes in Skins Play mode. **The default is set to \$3.00.**

Player Cost Schedule				
This will take you back to the Golden Tee Settings menu.				
Adjustable Costs	Operator Portion	ITNET Portion	Total To Player	Default Value
Play Golf (18 Holes)	\$ 3.00	\$ 0.00	\$ 3.00	\$ 3.00
Play Golf (9 Holes)	\$ 2.00	\$ 0.00	\$ 2.00	\$ 2.00
Play Golf (1 hole)	\$ 0.25	\$ 0.00	\$ 0.25	\$ 0.25
Mulligans	\$ 0.25	\$ 0.00	\$ 0.25	\$ 0.25
Skins (3 Holes)	\$ 1.50	\$ 0.00	\$ 1.50	\$ 0.75
Skins (9 Holes)	\$ 2.00	\$ 0.00	\$ 2.00	\$ 2.00
Skins (18 Holes)	\$ 3.00	\$ 0.00	\$ 3.00	\$ 3.00
View Fixed Costs				
Reset Defaults				
Back				
(USA) Golden Tee Unplugged 5.00.03 OD-Game ID I4-000070				

## View Fixed Costs

This menu is not available on Unplugged.

## Reset Values

This resets all values to their default value located on this page.

## Back

Select this to return to the **Golden Tee Settings & Audits** menu.

## CHOOSE CLASSIC COURSES

Golden Tee Unplugged 2011 offers a total of 15 selectable courses to players. The five 2010 courses are always available, and a selection of five of the fifteen "classic" courses from previous years can be manually set to add variety to your location.

Use this screen to select the 5 preferred courses for your location. The default setting is all five 2010 courses.

To change a course, move the trackball left or right to highlight one of the course logos displayed in the five boxes. Then roll the trackball up or down to select the new course.

When finished, roll the trackball to the right to highlight DONE, and press the Start button to exit. The courses you selected from this menu will now be available to players.



## RESET LEADERBOARDS & RECORDS

Use this menu to reset various machine-specific Leaderboards.

### Reset Leaderboards

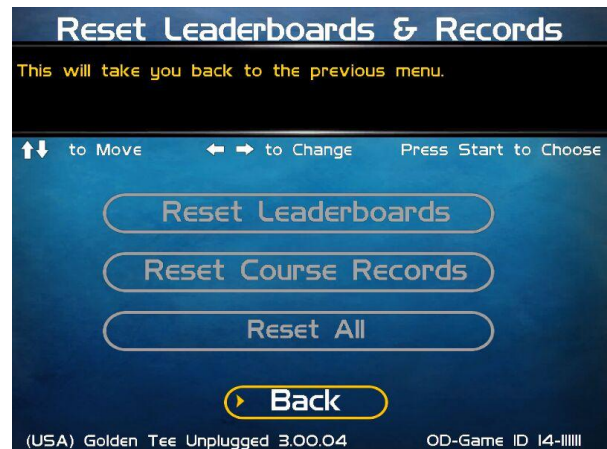
This leaderboard is displayed after every hole during a game. Use this setting to clear the current play data.

### Reset Course Records

Course records, such as best score on each course, are displayed on various screens during a game and in the attract mode, and replayed in the game's attract mode. Use this setting to clear all course records and game highlights.

### Reset All

Use this setting to clear all Leaderboards, course records and game highlights.



## APPENDIX A

### TROUBLESHOOTING GUIDE

<b>Video Problems</b>		
<b>Symptom</b>	<b>Probable Cause</b>	<b>Solution</b>
No picture on the 27" Monitor	I/O Board DIP Switch settings are wrong.	Adjust DIP Switch settings to match the resolution of the monitor you are using. Refer to I/O DIP Switch Settings in Appendix D.
	Incorrect video connection configuration.	Be sure the video connections are correct according to the type of monitor you are using. Refer to the diagrams in Appendix D.
	Monitor does not have a proper A.C. voltage input.	Verify A.C. power to the Nighthawk System box. Verify monitor is working on a known good system.
	Monitor is defective.	Repair or replace.
	Nighthawk System box is defective	Go to Nighthawk System box troubleshooting section.
No picture but game sounds are heard	Incorrect video connection configuration.	Verify video is connected to the system correctly. Refer to the diagrams in Appendix D.
	Since you hear game sounds the system is working.	Review no picture troubleshooting section above.
Scrambled Picture	I/O board DIP Switch settings are set wrong.	Adjust DIP Switch settings to match the resolution of the monitor you are using. Refer to DIP Switch Settings in Appendix D.
	Incorrect video connection configuration.	Be sure the video connections are correct according to the type of monitor you are using. Refer to the diagrams in Appendix D.
Entire picture is not seen on the screen or it does not fill the entire screen	Misadjusted monitor.	Adjust the monitor width and height. Use video screen adjustment in system tests. Refer to the monitor manual.
Missing or washed out colors	Bad Video connections	Verify continuity from the monitor to the video out on the I/O board. Red, Green, Blue video signal. <i>Mid. and Low resolution monitors only.</i>
	Contrast and brightness on the monitor needs to be adjusted.	Refer to the monitor manual to make adjustments.
	Defective Monitor.	Verify by connecting a known good monitor to the system.



<b>Sound Problems</b>		
<b>Symptom</b>	<b>Probable Cause</b>	<b>Solution</b>
No Sound	Audio Cable between the I/O board and the Nighthawk system box are not connected.	Verify audio cables are connected. Refer to Appendix D.
	Speakers are not connected properly.	Verify continuity from the I/O board speaker output pins to the speakers. Refer to Appendix D.
	Volume is set to the lowest level.	Adjust the volume to an audible level.
	Attract mode sounds may be set to all off. You will have sounds when playing the game.	Choose one of the 5 Attract Mode sound options in Sound Adjustments.
	Defective I/O board.	Verify on a known working system. Replace if necessary.
	Defective Nighthawk system box.	Be certain all other possibilities are explored before replacing the Nighthawk system box.
Distorted or scratchy game sounds	Bad speaker.	Replace blown speaker.
	Loose speaker or grill cover is causing vibration.	Verify all components are installed properly and securely.
	Loose/defective audio cables from the Nighthawk system box to the I/O board.	Check the audio cable connections. Replace cable.
	Defective I/O board.	Verify on a known working system. Replace if necessary.
	Defective Nighthawk system box.	Be certain all other possibilities are explored before replacing the Nighthawk system box.

<b>Nighthawk Chassis Problems</b>		
<b>Symptom</b>	<b>Probable Cause</b>	<b>Solution</b>
No video and no green lights on the I/O board. Fans are not heard on the Nighthawk Chassis.	No A.C. power to the Nighthawk Chassis.	Verify A.C. voltage is connected to the Nighthawk Chassis.
	Power switch on the Nighthawk Chassis is off.	Flip the Nighthawk Chassis power switch to on.
	Main cabinet power switch is off.	Be certain the main cabinet switch is set to on.
	Soft Power Shutdown	Press the Soft Power button with the power turned on. Or, short the top 2 pins of the 6-pin connector on the system box. See Appendix D.
	Defective Nighthawk Chassis.	Be certain all other possibilities are explored before replacing the Nighthawk Chassis.
No video and no green lights on the I/O board. Fans are heard on the Nighthawk Chassis.	DC power cord not connected from Nighthawk Chassis to I/O board.	Connect the DC power cord from the Nighthawk Chassis to the I/O board.
	Defective I/O board.	Try it on a known good system. Verify by disconnecting all cables from the I/O board except the DC power and USB cable to the Nighthawk Chassis. No green lights, replace the I/O board.

<b>Control Problems</b>		
<b>Symptom</b>	<b>Probable Cause</b>	<b>Solution</b>
Button does not work.	Switches Common post is not connected to digital ground.	Verify continuity to digital/power supply ground.
	Signal wire is not connected to the Normally Open post of the switch.	Verify continuity from the I/O board to the Normally Open post of the switch.
	Switch is defective.	Replace defective switch.
Button always indicates closed in the player control test. Pressing it will show it is not depressed.	Signal wire is connected to the Normally Closed post of the switch.	Connect signal wire to the Normally Open post of the switch.
Button always indicates closed in player control test even with the switch disconnected entirely.	Defective I/O board.	Test on a known good system. Replace if necessary.
Trackball is not functioning in any direction.	Trackball is not connected to the I/O board properly.	Verify the trackball is connected to J208 labeled trackball on the I/O board.
	Defective trackball Interconnect cable.	Verify continuity on the trackball Interconnect cable.
	Trackball is defective.	Replace trackball.
	I/O board is defective	Replace I/O board. Try it on a known good system.
Trackball does not work in a certain direction.	Trackball cable is defective.	Verify continuity on the trackball cable. Repair or replace if needed.
	Trackball is defective.	Repair or replace the trackball. Try it on a known working system.
	I/O board is defective.	Repair or replace the I/O board. Try it on a known working system.
Trackball works intermittently.	Inside of the trackball is dirty.	Clean the inside of the trackball.
	Rollers are worn.	Replace the rollers and bearings.
	Trackball is over-tightened.	Do not over-tighten the trackball. Tighten just enough to flatten the lock washers.

<b>HDTV Video Problems</b>		
<b>Symptom</b>	<b>Probable Cause</b>	<b>Solution</b>
There is no picture during boot up.	Incorrect video cable configuration.	Be sure you are using the proper cable connections. Refer to the HDTV connections configurations.
	Connected to the wrong output on the system box	Refer to the HDTV connections configurations.
	Connected to the wrong input on the HDTV	HDTVs usually have more than 1 input for a certain input type. Examples are Component 1 & 2; HDMI 1 & 2.
	Incorrect input selected on the HDTV	Be sure the correct input is selected from the HDTV input menu. Example: If using HDMI 1 that input must be selected from the HDTV video input menu.
	DIP switch setting SW 201 on the I/O board set incorrectly.	Sw201 on the I/O board must be configured to match the method of video you are using.

<b>Symptom</b>	<b>Probable Cause</b>	<b>Solution</b>
No picture after boot up	Normal black screen is displayed for a period of time just before 3D graphics are displayed.	This is normal operation. Be sure to wait at least two minutes after LOADING GAME is displayed to see if video appears.
	Your VGA cable is connected to the second monitor output.	Connect the VGA connector to the main output port.
	Incompatible video mode	Many monitors will not accept SVGA 720p or 800 X 600. 640 x 480 usually works. A commercial grade HDTV will usually work.
Distorted or fuzzy picture	Improper cable connection	Be sure the video cables are securely connected at the computer video card and at the HDTV. This is especially critical if using a component video cable.
Picture is too big for the screen or does not fill the entire screen.	Incorrect DIP switch configuration.	Be sure Sw201 is configured to match the desired video.
	Increase or decrease screen size in games adjustments.	Location is in General Settings>Operator>System Tests>Video Screen Settings>Screen Size Adjust

### HDTV Audio Problems

No Audio	RCA audio cable is not connected to the system box or HDTV	Connect the RCA audio cable to the system box and then to the proper input on the HDTV.
	RCA audio cable is connected to the wrong audio input of the HDTV	You must connect the audio cable to the matching video input selected. For example: If you are using Component 1 the audio must go to Component 1.
	HDTV audio is muted	Turn the mute off in the HDTV menu.
	Volume is turned down on the monitor or game sounds are set too low.	Adjust the volume on the game to 75% and then adjust the game volume to your desired level.
Low volume	Volume is turned down on the monitor or game sounds are set too low.	Adjust the volume on the game to 75% and then adjust the game volume to your desired level.
Scratchy or distorted audio	Poor cable connection RCA cable	Be sure the RCA audio cable is securely and entirely connected the mating connectors.

<b>Flash Code Messages</b>		
<b>Flash Code (I/O Diode D102)</b>	<b>Code Description</b>	<b>Solution</b>
Flash Code 2	Possible IO board failure	First Check Connections. Turn off game, wait 10 seconds, turn game on. If Problem persists call IT tech support.
Flash Code 3	Info: Last reboot due to Watchdog time out.	Turn off game, wait 10 seconds, turn game on. If Problem persists call IT tech support.
Flash Code 4	Error When updating CID to latest Version	Typically CID failure. Turn off game, wait 10 seconds, turn game on. If Problem persists call IT tech support.
Flash Code 5	Updated USB CID was detected. This is not an error but a notification.	Turn off game, wait 10 seconds, turn game on. If Problem persists call IT tech support.
Flash Code 6	Disconnected Cabinet ID Device (CID) was detected.	Check USB connection. Turn off game, wait 10 seconds, turn game on. If Problem persists call IT tech support.
Flash Code 7	CID Malfunction. Typically CID is defective.	Turn off game, wait 10 seconds, turn game on. If Problem persists call IT tech support.
Flash Code 10	Error When updating USB IO board to latest version. Typically an IO board failure	Turn off game, wait 10 seconds, turn game on. If Problem persists call IT tech support.
Flash Code 11	Updated USB IO board to latest version. This is not an error but a notification.	Turn off game, wait 10 seconds, turn game on. If Problem persists call IT tech support.
Flash Code 12	A disconnected IO board was detected.	Turn off game, Check USB and power connections, turn game on. If Problem persists call IT tech support.
Flash Code 13	IO board malfunction. Typically IO board has failed.	Turn off game, wait 10 seconds, turn game on. If Problem persists call IT tech support.
Flash Code 14	Game is incompatible with USB IO board.	This usually means the wrong type of IO board. It does not match the system box software. Try turning off game, wait 10 seconds, turn game on. If problem persists call IT tech support.

<b>Miscellaneous Problems</b>		
<b>Symptom</b>	<b>Probable Cause</b>	<b>Solution</b>
Unable to exit Operator Menus.	DIPswitch SW202 position 4 is in the on position.	Set position 4 of SW202 to off. Press start to exit.
	Test switch wired from the I/O board is closed.	Verify satellite test switch is not closed.
No fluorescent light	No 120 volts A.C. power going to the light fixture.	Verify A.C. voltage to the light fixture.
	Defective fluorescent light.	Replace fluorescent light.
	Defective starter	Replace the starter.
	Defective ballast.	Replace the ballast.
Coin Meter is not working	Defective Coin Meter	Replace with a known good one.
	Not wired properly	Connect one lead to +5 or +12 volts depending on device. The other lead to count 1 on the JAMMA connector.
	Defective I/O board	Replace with a known good board.

# APPENDIX B

## JAMMA, TRACKBALL, AND I/O POWER CONNECTIONS

For Standard Online Kit and Deluxe Retrofit Kit.

### JAMMA Harness Connection

SOLDER SIDE			PARTS SIDE	
WIRE COLOR	FUNCTION		FUNCTION	WIRE COLOR
	*	A	1	*
	*	B	2	*
	*	C	3	*
	*	D	4	*
		E	5	
	*	F	6	*
KEY		H	7	KEY
		J	8	Coin Counter 1
		K	9	
Yellow-Green	Left Speaker (-)	L	10	Left Speaker (+)
White-Green	Right Speaker (-)	M	11	Right Speaker (+)
Green-Black	Video Green	N	12	Video Red
White	Video Sync	P	13	Video Blue
Orange-Black	Service Button	R	14	Video GND
		S	15	System Setup Button
Green-Red	Coin 2	T	16	Coin1
		U	17	Start 1
		V	18	Options Button
		W	19	Help Button
		X	20	Spin Button
		Y	21	Flyby Button
		Z	22	Turn Left Button
		a	23	Turn Right Button
Orange-Yellow	Volume Down	b	24	Volume Up
		c	25	Coin 3 (Bill)
		d	26	
Black	GND	e	27	GND
Black	GND	f	28	GND

**\*NOTE: Power is NOT routed through the JAMMA connector.**

### Trackball Harness Connector Pin Outs

I/O Board Connector	Trackball Connector
PIN WIRE #6 - Black	PIN WIRE #1 - Black
PIN WIRE #1 - Red	PIN WIRE #2 - Red
PIN WIRE #2 - Yellow	PIN WIRE #3 - Yellow
PIN WIRE #3 - Green	PIN WIRE #4 - Green
PIN WIRE #5 - Blue	PIN WIRE #5 - Blue
PIN WIRE #4 - Purple	PIN WIRE #6 - Purple

### I/O Power Cable Pin Outs

Pin Number	Wire Color	Function
1	Yellow	+ 12 Volts DC
2	Black	Ground
3	Red	+ 5 Volts DC
4	Black	Ground

### Control Panel XJ203 Connector Pin Outs

Pin	Color	Function
1	Green-White	Options
8	Blue-White	Help
10	Black	GND

### Lamps J202 Connector Pin Outs

Pin	Color	Function
1	Red-Black	Lamp Power
5	Red-Yellow	Help Lamp
6	Red-Green	Options Lamp

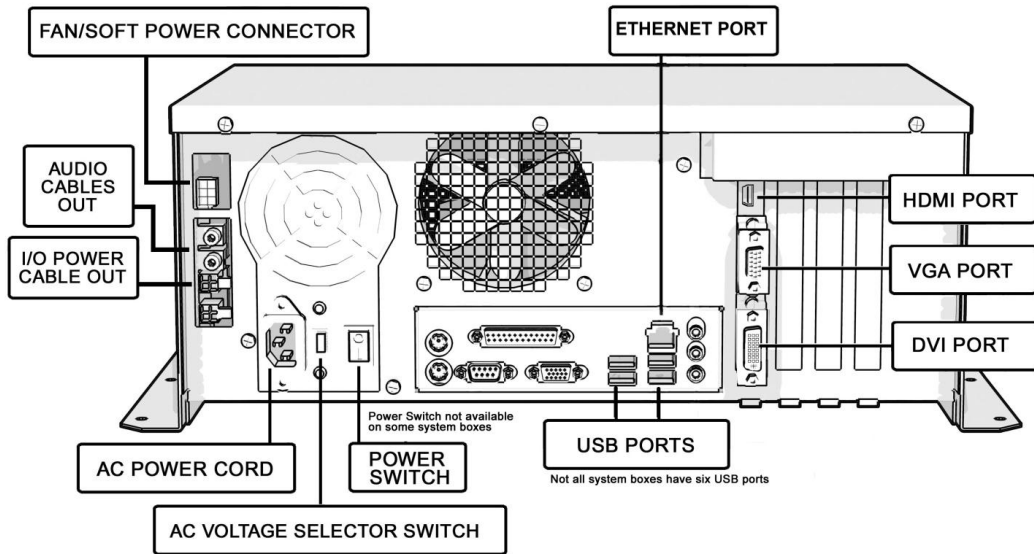
## APPENDIX C REPLACEMENT PART NUMBERS

*Please refer to these IT part numbers when placing orders.*

Part Number	Description
925000322P	SHOWPIECE CABINET, US GT UNPLUGGED 2011 COMPLETE UNIT
900146007R	CABINET IDENTIFICATION DEVICE, GOLF
915000285R	CABLE ASSY, AUDIO CABLE, 6 FT 2RCA PLUG TO 2RCA PLUG
915250304R	CABLE ASSY, I/O POWER FOR KITS
915000745	CABLE ASSY, POWER CORD. A.C.
915000315R	CABLE ASSY, SVGA, 6 FT. DB15HD M-M
915000310R	CABLE ASSY, USB CABLE, 6 FT.
915000173R	CABLE ASSY, TRACKBALL/GUN INTERFACE
915015400R	CABLE ASSY, HDMI, 15 FT.
999000060R	CARD READER BLANKING PLATE
938291715	CASH VAULT COMPLETE ASSEMBLY W/ \$1-5 DBA
845000294K	CONTROL PANEL, DIECUT PLEXI W/ADHESIVE SQUARE FOR GT4 CABINETS
845000294R	CONTROL PANEL PLEXI FOR GT UNPLUGGED DEDICATED ONLY
825100294R	CONTROL PANEL OVERLAY GRAPHIC, DIECUT WITH CONTROL LABELS/TB HOLE
753000250	CONTROL PANEL RUBBER BUMPER FOR GT UNPLUGGED DEDICATED
999000288	DBA, MARS \$1-5 BILL ACCEPTOR FOR IT CASH VAULT ONLY MODEL AE2481D5E
900900322R	I/O BOARD FOR GT UNPLUGGED 2011 DEDICATED
900100322R	I/O BOARD FOR GT UNPLUGGED 2011 KIT
840500250R	GT.COM LOGO CARD FOR NON-TOURN. CABINETS
925000322	KIT – GT UNPLUGGED 2011
815000322	MANUAL, GT UNPLUGGED 2011
820000322R	MARQUEE, GT UNPLUGGED 2011
850000001R	PUSHBUTTON ASSY, RED WITH VERTICAL MOUNTED SWITCH
850000003R	PUSHBUTTON ASSY, WHITE WITH VERTICAL MOUNTED SWITCH
840250100	QUICK INSTALL GUIDE, GOLF
830000294R	SIDE DECAL, GT UNPLUGGED
900000321R	SYSTEM BOX, GT 2011
753000500R	SYSTEM BOX FILTER
752259500R	SYSTEM BOX FILTER BRACKET
880000030R	TRACKBALL ASSY, 3" WHITE
885000030R	TRACKBALL PLATE FOR 3" TRACKBL WITH STANDOFFS

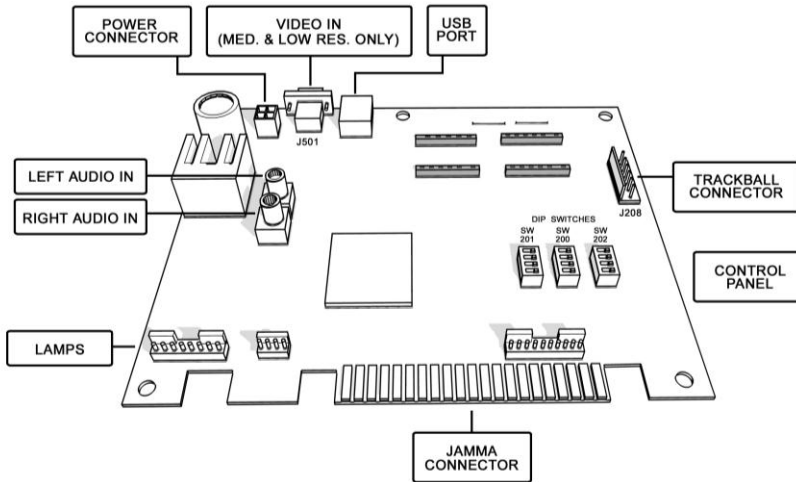
# APPENDIX D NIGHTHAWK COMPONENT DIAGRAMS

## Nighthawk System Box Diagram

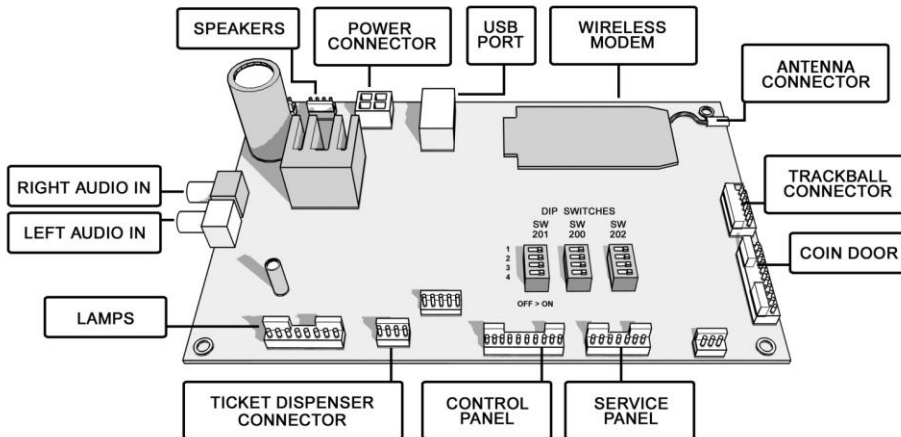


## Kit I/O Board Diagram

This I/O Board accepts a JAMMA connector.



## Dedicated I/O Board Diagram



# CRT MONITOR APPLICATION

## IMPORTANT NOTE

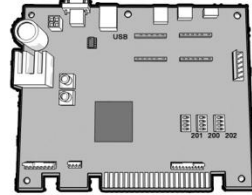
### RESOLUTION SETTINGS

Resolution settings for CRT monitors:

- SVGA**: 800 x 600, 37.8 KHz
- VGA**: 640 x 480, 31.5 KHz
- MID**: 512 x 384, 25 KHz
- LOW**: 384 x 256, 15 KHz

Each setting is controlled by a 4-position DIP switch (1-4) with OFF and ON indicators.

### I/O CARD DIAGRAM FOR ORIENTATION



Sw201 Sw200 Sw202

Each switch has four positions (1-4) and OFF/ON indicators.

ALWAYS ON  
Do Not Change

### SECONDARY SETTINGS

Secondary settings for CRT monitors:

- Enter Operator Adjustables**
- Exit Operator Adjustables & Vertical Flip**
- Upper Monitor (default)**
- Do Not Flip Upper Monitor**

Each setting is controlled by a 4-position DIP switch (1-4) with OFF and ON indicators.

## Sw201 & Sw202 DIP Switch Settings for HDTVs

# HDTV MONITOR APPLICATION

## IMPORTANT NOTE

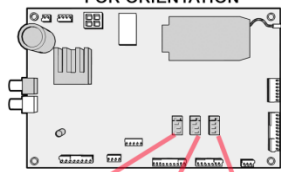
### RESOLUTION SETTINGS

Resolution settings for HDTV monitors:

- 1280 x 720 (HDMI/DVI-D) 720p**: DEFAULT
- 1280 x 720 (Component) 720p**
- 800 x 600 (Component)**
- 1280 x 720 (SVGA) 720p**
- 800 x 600 (SVGA)**
- 640 x 480 (VGA)**

Each setting is controlled by a 4-position DIP switch (1-4) with OFF and ON indicators.

### I/O CARD DIAGRAM FOR ORIENTATION



Sw201 Sw200 Sw202

Each switch has four positions (1-4) and OFF/ON indicators.

Sw200 ALWAYS ON  
Do Not Change  
Settings shown for Showpiece

### ADDITIONAL SETTINGS

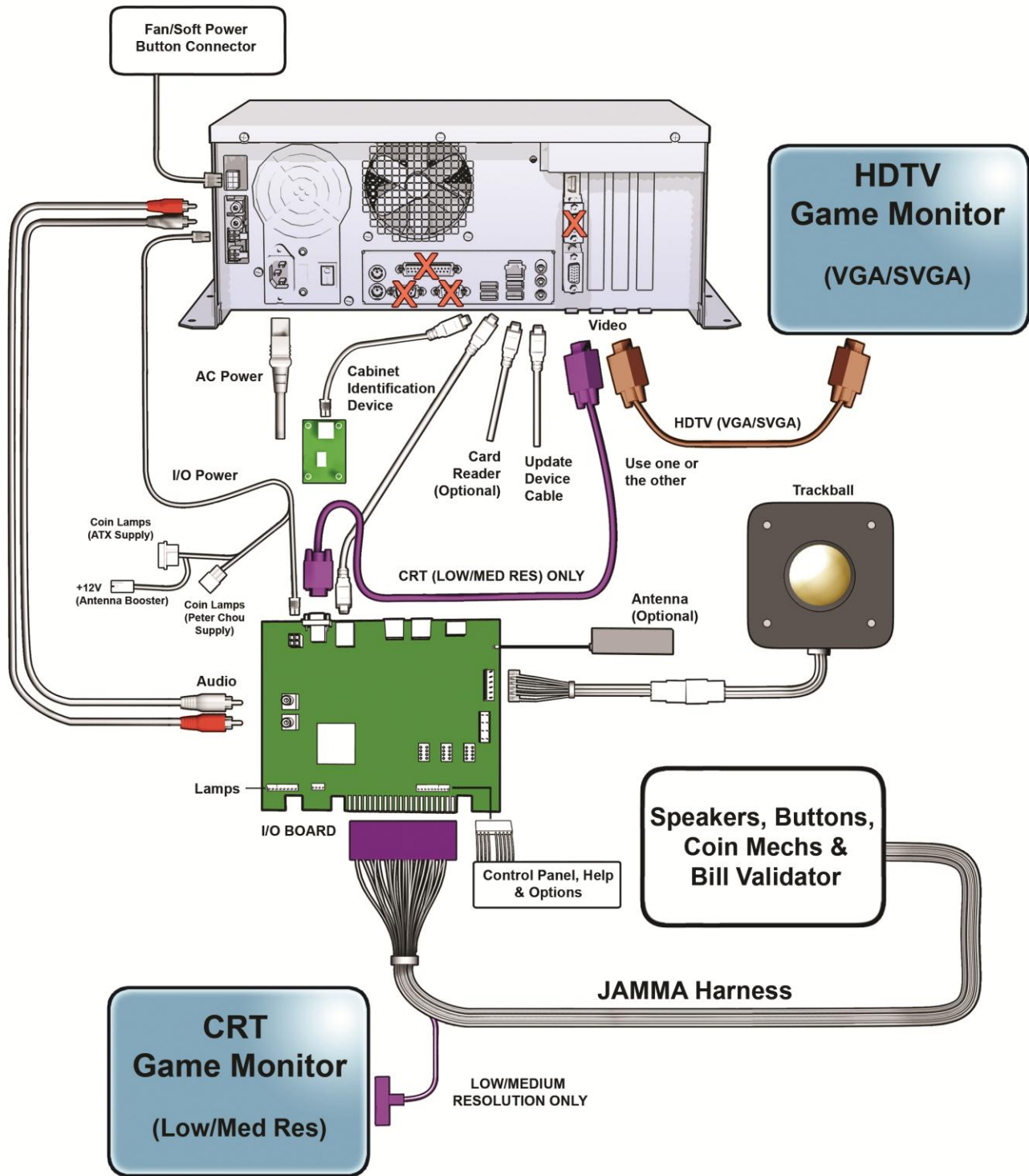
Additional settings for HDTV monitors:

- Primary Monitor**
  - Primary Monitor has 16 x 9 Aspect Ratio
  - Primary Monitor has 4 x 3 Aspect Ratio
- Secondary Monitor**
  - Optional 2nd Monitor has 16 x 9 aspect ratio
  - Optional 2nd Monitor has 4 x 3 aspect ratio
- System Setup**
  - Enter System Setup Menus
  - Exit System Setup Menus
- Do Not Flip Optional 2nd Monitor**
- Vertical Flip Optional 2nd Monitor**

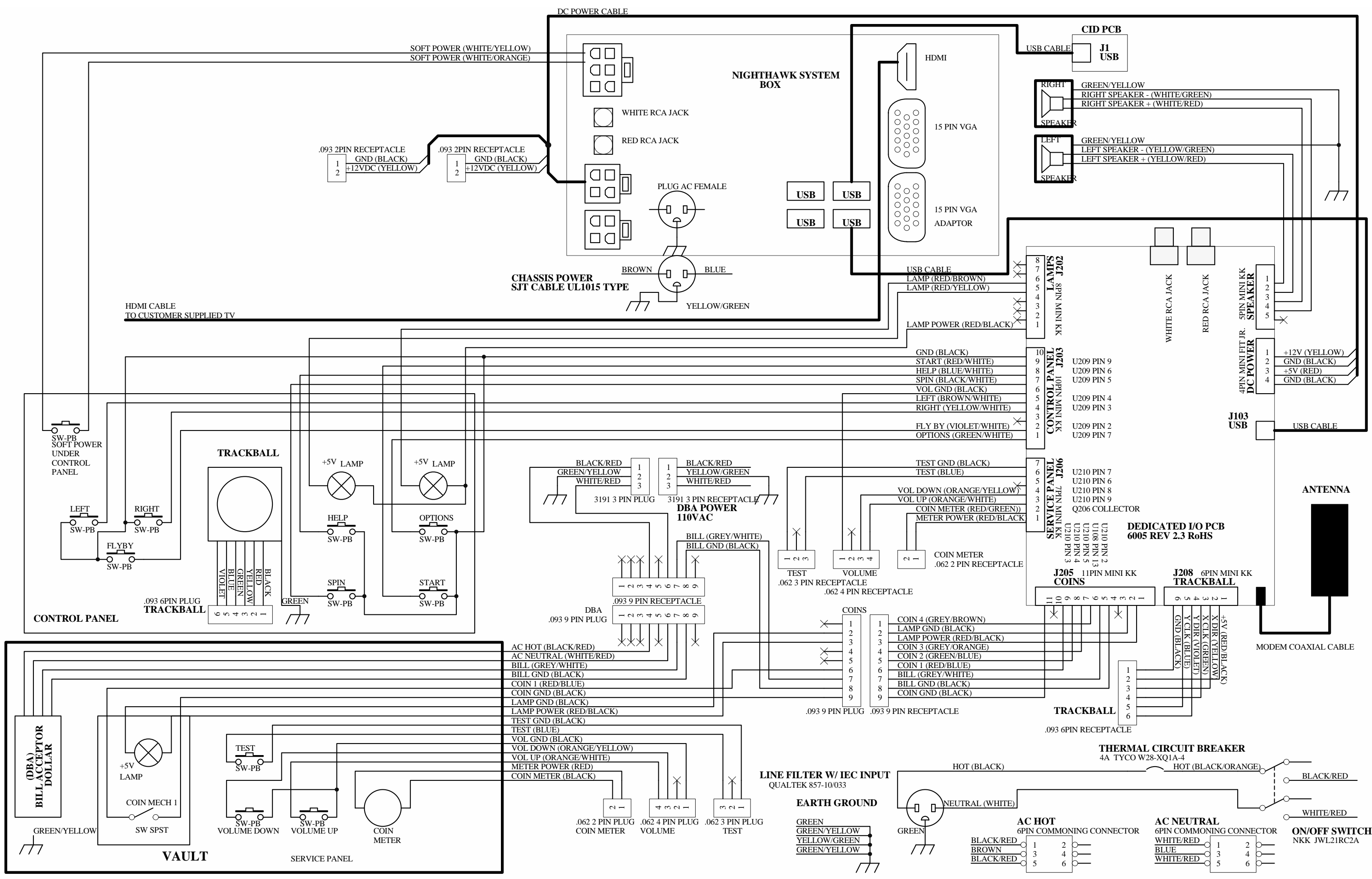
Each setting is controlled by a 4-position DIP switch (1-4) with OFF and ON indicators.



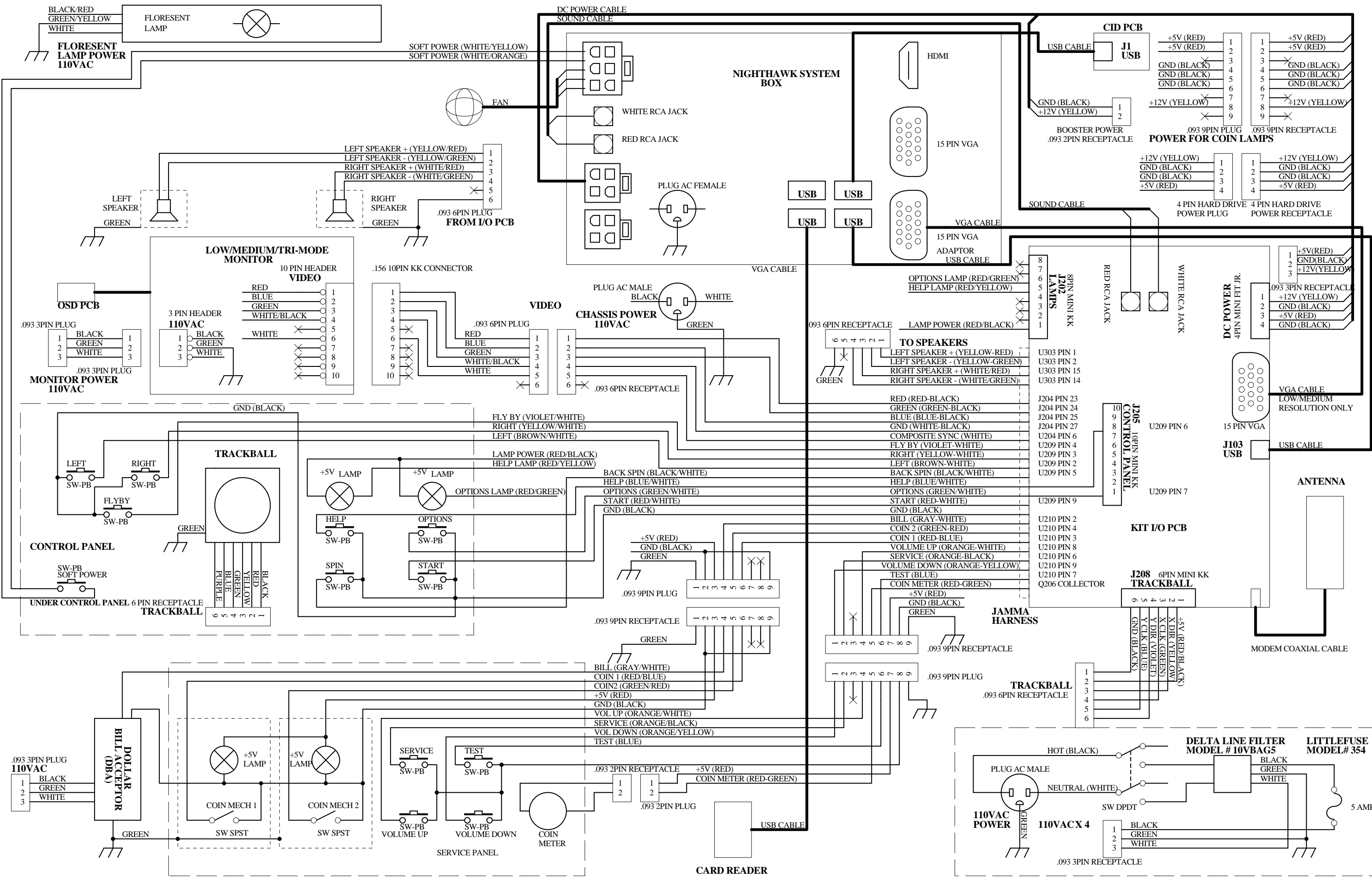
# Detailed Cable Connection Diagram for Kits













# APPENDIX E

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## APPENDIX F MENU NAVIGATION SHORTCUTS

### Change Collection Settings

- Push the red System Setup button inside the coin door
- Select **General Settings** menu
- Select **Operator Adjustables** menu
- Select **Collection Settings** menu
- Select the menu that you want changed

### Add Operator Free Cash

- Push the red System Setup button inside the coin door
- Select **Collection and Earnings**
- Select **Add Free Cash**
- Move the trackball left/right to select the desired dollar amount

## GAME ICON DESCRIPTIONS

### Cooling Icon

The cooling icon (pictured right) will appear in the game's attract mode to warn you that a fan is not operating at minimum recommended standards. If the fans do not operate at suggested levels it may cause your game to overheat and fail.

Call Incredible Technologies Technical Support at 847-870-7027 x121 for assistance.





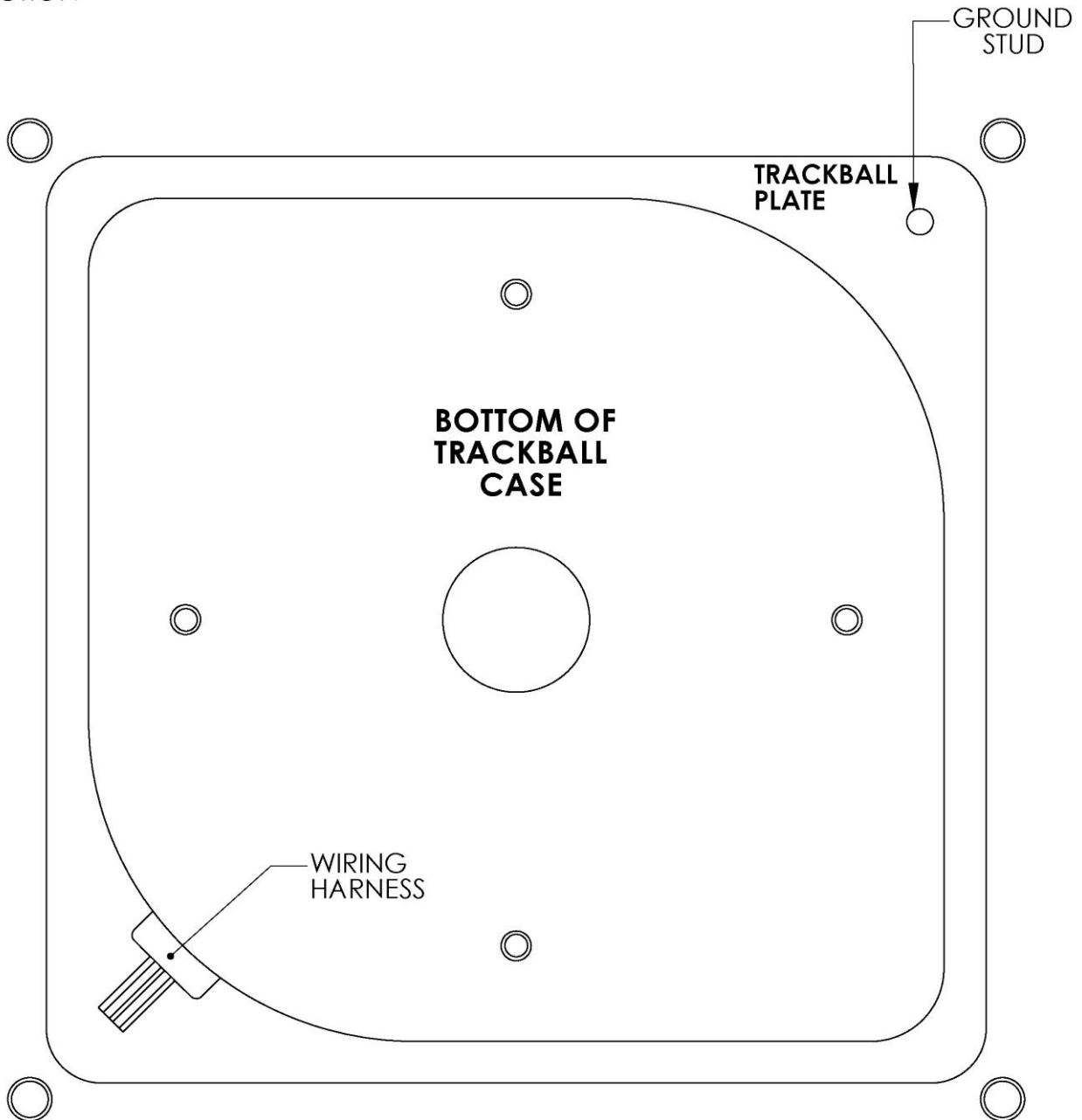
**APPENDIX G  
MOUNTING TEMPLATES**



MONITOR  
DIRECTION

**TRACKBALL ORIENTATION DIAGRAM**

(VIEWED FROM UNDERSIDE OF CONTROL PANEL)



**INSTALLATION NOTES:**

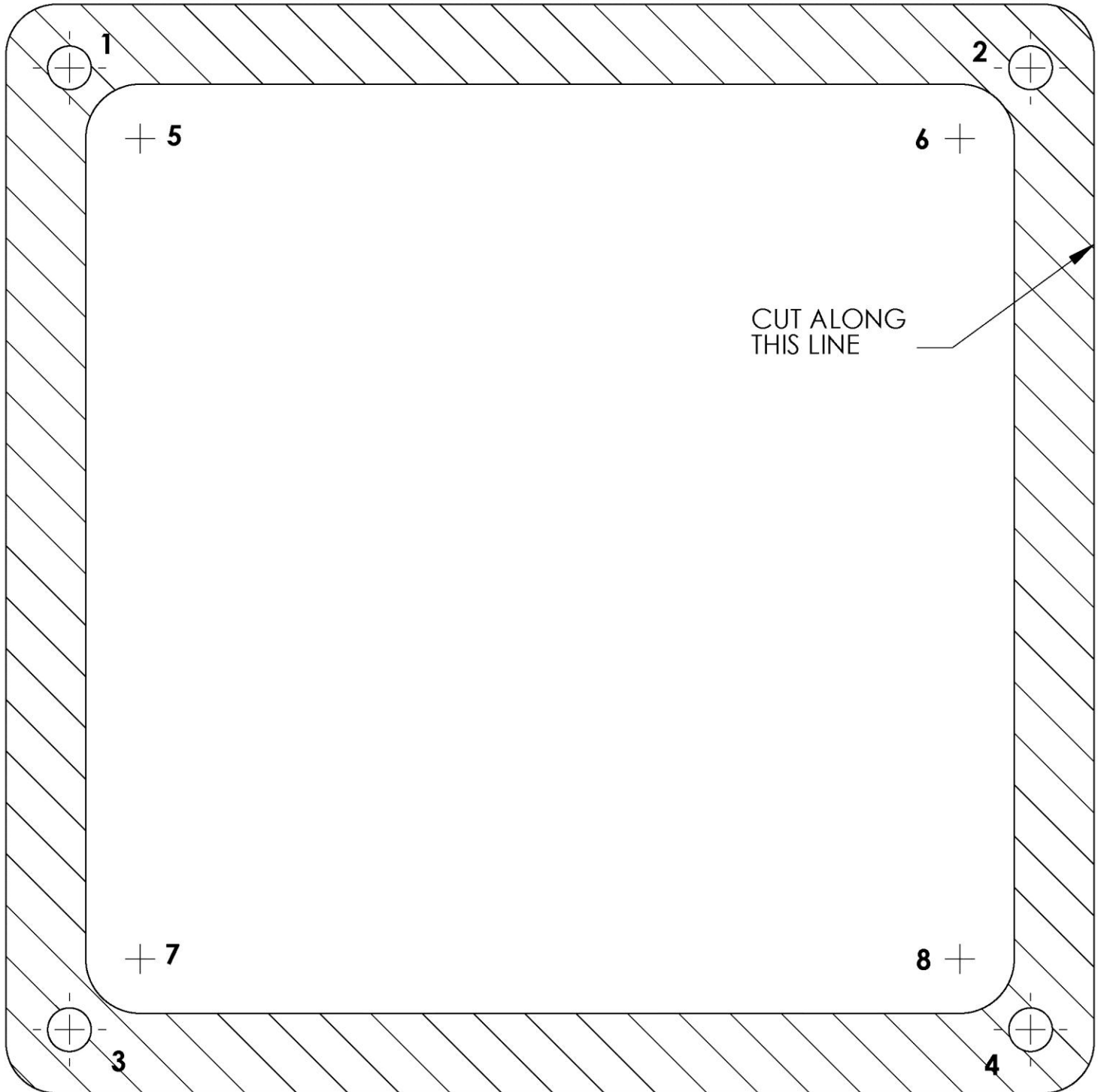
- 1) THE WIRING HARNESS SHOULD POINT AWAY FROM THE MONITOR AND TO THE LEFT.
- 2) GROUND PIN SHOULD BE TOWARD THE MONITOR AND ON THE RIGHT SIDE.



# TRACKBALL MOUNTING TEMPLATE

## TOOLS REQUIRED:

DRILL, 9/32" OR 5/16" & 3/4" DRILL BITS, SABRE SAW, SCISSORS, & ROUTER

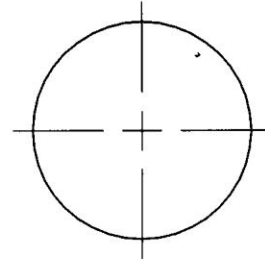
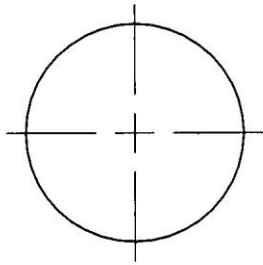


## INSTRUCTIONS:

- 1) CUT THE TEMPLATE OUT WITH A PAIR OF SCISSORS ALONG THE NOTED LINE. TAPE THIS TEMPLATE TO THE TOP OF THE CONTROL PANEL AS FAR AWAY FROM THE MONITOR AS POSSIBLE, MAKING SURE THAT THE TRACKBALL WILL CLEAR THE CABINET BENEATH IT.
- 2) USING A SHARP OBJECT, MARK THE (8) POINTS SHOWN HERE ON THE CONTROL PANEL. USING A PENCIL, TRACE THE OUTSIDE OF THE TEMPLATE. REMOVE THE TEMPLATE.
- 3) DRILL HOLES 1-4 WITH THE 9/32" OR 5/16" DRILL BIT.
- 4) DRILL HOLES 5-8 WITH THE 3/4" DRILL BIT.
- 5) ROUTE THE CROSSHATCHED REGION TO A DEPTH OF ABOUT .075" (ABOUT THE THICKNESS OF A NICKEL).
- 6) USING THE SABRE SAW CUT OUT THE CENTER PORTION BY CUTTING BETWEEN HOLES 5-8.

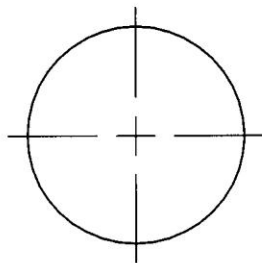


# LEFT BUTTON DRILL TEMPLATE



**2**

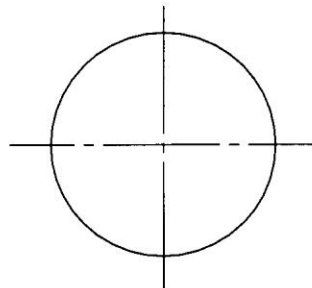
THE CENTER OF  
BUTTON #2 SHOULD  
BE LOCATED 2.75"  
ABOVE, AND 9" TO  
THE LEFT OF THE  
CENTER OF THE  
TRACKBALL.



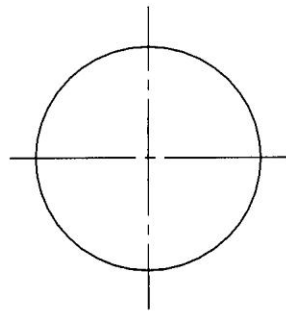
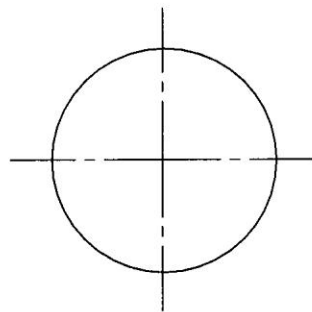
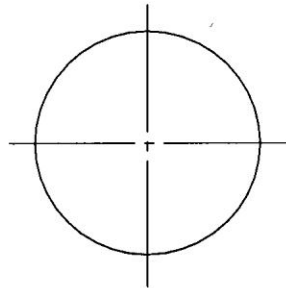




# RIGHT BUTTON DRILL TEMPLATE



**1**



- 1) THE CENTER OF BUTTON #1 SHOULD BE LOCATED APPROX. 8" TO THE RIGHT OF THE CENTER OF THE TRACKBALL WITH THE BUTTONS CENTERED ABOUT THE TRACKBALL VERTICALLY.
- 2) FOR GOLDEN TEE FORE CABINETS THE #1 BUTTON HOLE SHOULD BE ALIGNED WITH THE EXISTING BACKSPIN BUTTON HOLE.



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