



INSTALLATION AND OPERATION MANUAL

Version 10/04





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 \$55.00 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 your authorized Incredible Technologies distributor. Please have your Incredible Technologies serial number available when calling for an RMA number.
- Merchandise returned without an RMA number will not be accepted.
- Advance replacement boards will be shipped to distributors or, at the distributor's request, will be shipped directly to the operator.
- Advance replacement boards will be billed to the distributor until Incredible Technologies, Inc. receives the returned board, 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).

FCC Regulation Compliance

- This equipment complies with Part 68 of the FCC Rules. On the back of this equipment there is a label that contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. You must, upon request, provide this information to your telephone company. (NOTE: REN is not required for some types of analog or digital facilities.)
- This equipment uses RJ11.
- FCC compliant telephone cord and modular plugs are provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is part 68 compliant. See installation instructions for details.
- The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area. (NOTE: REN are associated with loop-start and ground-start ports. Do not use for E&M or digital ports.)
- If your telephone equipment causes harm to the telephone network, the Telephone Company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice is not practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC.
- Your telephone company may make changes in its facilities, equipment, operations and procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.
- If you experience trouble with this telephone equipment, please contact Incredible Technologies technical department at 847-870-7027 for information on obtaining service or repairs. The Telephone Company may ask you to disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.
- No user serviceable parts are contained in this equipment.
- This equipment may not be used on coin service provided by the Telephone Company. Connection to party lines is subject to tariffs.



NEW FEATURES

BACKSPIN:

A player can use backspin to stop a shot or roll the ball back toward the hole. To create backspin, press the backspin button located to the right of the trackball. You must press the button **before you hit the shot** in order to activate the feature. To remove the backspin feature, simply press the backspin button again before you swing.

INSTANT REPLAY:

To see an instant replay of the shot you just hit, press the START button before the ball stops rolling. You can stop the instant replay at any time by simply pressing the START button again.

MULLIGANS:

You now have the ability to take back and repeat a shot with the new Mulligan feature. **Mulligans are only available in STROKE and SKINS play.** Mulligans are not available in GTGA League Play or ITS® Tournament Play. To buy a Mulligan, simply press the START button after everyone has attempted that particular shot. Roll the trackball up until you highlight "MULLIGAN" and press the START button again. It will then ask you to pay for the Mulligan. Deposit the appropriate amount, press the START button, and hit your shot again. You can buy as many Mulligans as you want on every hole. There's no limit.

SKIP TURN:

To skip a turn, press the START button, roll the trackball up to highlight "SKIP TURN", and press the START button again. That golfer's turn will then be delayed until every golfer has taken his turn. You can continue skipping the turn of that golfer until everyone else has finished the hole.

ONLINE OPPONENTS:

When you select League or Tournament play, you'll be asked if you wish to play along with someone who has already recorded an exceptional score on a particular course. If you choose to do so, simply select YES and press the START button. You will then play the same course as the ONLINE OPPONENT and experience the same tee and pin placements, weather conditions, and observe the club selection and flight of the ball as it's hit. This is an excellent training feature for the good player who wants to be great. You can use the START button to speed up the Online Opponent's turn.

FLY-BY:

This feature gives players a sneak peek at the layout of a hole. By pressing the FLY-BY button, the camera shows you the direct path to the hole from where you're standing and facing.

LEADERBOARD ACCESS:

Swipe your player card during the attract mode for instant access to personal stats, and all Leaderboards. Press the backspin to progress to the next screen in the sequence. The Left, Right and Fly-By buttons control the speed and direction of the scrolling information.

MORE COURSE SELECTIONS:

Players now have a choice of Front 9, Back 9, or all 18 holes of any 18-hole course!

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GETTING STARTED

KIT PACKAGE CONTENTS

- (1) Printed Circuit Board (PCB) Assembly
- (1) Trackball Assembly w/Metal Plate
- (1) Trackball Cable Assembly
- (5) Button Assemblies
- (1) Marquee Styrene
- (1) Control Panel Overlay
- (1) Set Function Labels
- (1) Card Reader Assembly
- (1) Hard Drive and Interface Assembly
- (1) 50' Phone Cable
- (1) T-splitter
- (1) Set Installation Templates
- (1) Side Decals
- (1) Manual
- (1) Set Mounting Hardware

RECOMMENDED TOOLS

- Phillips and Slotted Screwdrivers
- 1/4" Hex Screwdriver
- Socket Set, Wire Cutters and Strippers
- Pliers or Channel Locks
- Electric Drill with 3/32", 1/4", and 7/16" Bits
- Chassis or Sheet Metal Punch
- Razor Knife and Sharp Blades
- Soldering Iron and 60/40 Resin Core Solder
- Assorted Fastening Hardware
- Heat Shrink Tubing (3/32", 1/8", and 3/16")
- Masking Tape or 4" Wire Ties

IF YOU DO YOUR OWN PAINTING, YOU'LL NEED THESE PAINT SUPPLIES:

- Air Brush or Paint Sprayer
- Paint Brush, Paint Roller and Pan
- Paint (and Primer)
- Sandpaper

INSTALLATION PREPARATION

BEFORE YOU START...

1. Check to make sure your existing cabinet's monitor, speakers, AC power cord, and lights 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 above 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.

THE CABINET

NOTE!

Due to changes in components over time, Golden Tee Fore! has been manufactured on two different motherboards. The main PCBs have been color coded for easy identification. Please refer to sections marked Green Board or Red Board in this manual.

GREEN BOARD Power Requirements

If you have a GREEN BOARD, Make sure the game you have chosen to convert is able to supply all the required voltages for Golden Tee® Fore!.

+5 VDC 15 amps
+12 VDC 3 amps

WARNING!!!

The output level of many "regulated" switching power supplies actually varies with load. For this reason, the power supply from an old game may not be correctly adjusted for Golden Tee® Fore!. This makes the existing power supply inappropriate and hazardous to your new game. Therefore, it is very important to adjust the +5 VDC supply WITHOUT connecting the PCB, then readjusting it later, after the PCB has been installed. Measure power on the PCB, on the Boot ROM. Damage will occur if the power supply is outside the acceptable limits (between 5.0 and 5.15 VDC.)

RED BOARD Power Requirements

If you have a RED BOARD, it requires a 250-Watt ATX Power Supply.

+3 VDC 14 amps
+5 VDC 25 amps
+12 VDC 10 amps

WARNING!!!

The output level of many "regulated" switching power supplies actually varies with load. For this reason, the power supply from an old game may not be an ATX power supply required for a Golden Tee® Fore!. RED BOARD. This makes the existing power supply inappropriate and hazardous to your new game. Use only a 250-Watt ATX Power Supply with the RED BOARD.

Cabinet Selection

You can choose either a new cabinet or a used cabinet for your Golden Tee® Fore! game. Reusing a cabinet is by far the most cost-effective way to maximize the return of your initial investment. In either case, all you need to provide is the cabinet with a power supply, bill acceptor, working fluorescent/marquee lights, speakers, and monitor. We provide the rest. The end result is a new game at a very low cost.

When selecting a cabinet, keep this in mind:

A large 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.

Preparing the Cabinet For 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.
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 airbrush or paint sprayer is unavailable a roller is second best. Remember to cover all exposed surfaces not to be painted.
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.

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.

Monitor Requirements

Golden Tee® Fore! requires a monitor in a horizontal mount raster scan with negative composite SYNC. It can be difficult to change the monitor from vertical to a horizontal unit. Therefore, installation will be easier if you choose a horizontal mount cabinet. Golden Tee® Fore! has been designed for mid-res. and low-res. monitors. For best results, choose a cabinet with a mid-res. monitor. Consult your monitor manual for mid-res. adjustment. Although not ideal, Golden Tee® Fore! will work with a low-res. monitor.

Golden Tee® Fore! has been designed to run at multiple screen resolutions. Operating Golden Tee® Fore! at the highest possible resolution will give your game the best results. Many current games use medium-res. monitors already. If you have a low-res. monitor, it may be possible to switch it from a 15Kh(low-res.) to 25Kh(mid-res.). Check your monitor's manual for availability and instructions on switching resolutions.

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.

NOTE:

If your monitor is a WG U2000, you must run the game in low resolution. Make sure SW5 Dip Switch 1 is set to ON for low resolution.

If your monitor is a WG U5000 or Nanao, you may be able to run the game in medium resolution by doing the following below. Check your monitor's manual for availability and instructions on switching resolutions. Make sure SW5 Dip Switch 1 is set to OFF for medium resolution.

1. Remove the 11-pin housing with black wire loop jumpers from location CN15K.
2. Reconnect this housing at location CN25K.
3. Check for a 2-pin connector with a white wire at location TP205 (+30V).
4. If the 2-pin connector is there then remove it and reconnect it such that the cut wire is on the test pin (open side of connector).
5. The monitor is now set to operate in the medium resolution mode (25KHZ).

Reverse the above procedure to change the resolution from medium to standard.

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.

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. Once you have done so reinstall the monitor viewing glass back in place.

CONTROL PANEL

Trackball and Button Preparation

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 at the back of this manual. They include:

- ❑ Trackball Template to install the trackball plate and make the appropriate routing (page 53).
- ❑ Trackball Orientation Diagram to orient your trackball correctly when installing (page 55).
- ❑ Button Set Templates to position and install control panel buttons (page 57).

Trackball Preparation

Install the metal trackball plate by following these steps:

1. Cut out the template (see template-page 53) 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 template-page 57).
2. Cut along the dotted line to separate the templates.
3. Using a tape measure, measure the specified distances from the center of the trackball hole in the trackball plate and make a mark for both the left and right button reference points.
4. Lay each template over the appropriate reference marking point. Mark the centers of the remaining holes using a sharp object.
5. Drill a 1 $\frac{1}{8}$ " hole at each marked point.

NOTE: Golden Tee® Fore! requires a total of five buttons on the control panel. If updating from a previous version of Golden Tee® Golf, you must add two new buttons to the control panel. Use the supplied wiring kit to wire these new buttons to the JAMMA harness. The BACKSPIN button connects to pin 20 on the parts side, using the black-white wire. The FLY-BY button connects to pin 21 on the parts side, using the violet-white wire. Refer to the JAMMA Harness Connections Diagrams in Appendix B.

CARD READER INSTALLATION

Your Golden Tee Fore! kit contains a card reader unit that must be installed in the front of your cabinet. Players and operators use the card reader for access to exciting online game features. Players will expect the card reader to be operational on your game, so it is important to install it correctly.

1. Use the Card Reader Template (page 59 & 60) to determine where the card reader will be mounted. If you are installing on an IT cabinet, use Template A. For all other cabinets, use Template B. It is recommended that the card reader be installed on the front of the cabinet, to the right of the coin door. Make sure the card reader will be easily accessible by players when completed. Cut out and position the template in place, directly to the cabinet.

2. While holding the template in position, use an awl to make 4 marks for each of the mounting holes. Make 4 more marks at the center points indicated in the Cut-Out area.
3. Drill 4 3/16" plate mounting holes.
4. Drill a 3/8" diameter hole in each of the 4 center marks of the Cut-Out area.
5. Using a small saw, cut out the area between the drilled holes. Follow the shape indicated on the template.
6. Mount the card reader to the supplied metal plate, and the entire assembly to the cabinet.
7. Connect the card reader cable to the connector labeled J57 on the main PCB.
8. Apply the Card Reader graphic overlay below the card reader. Be sure the cabinet surface is clean and free of dust and debris before application.

GRAPHIC OVERLAYS

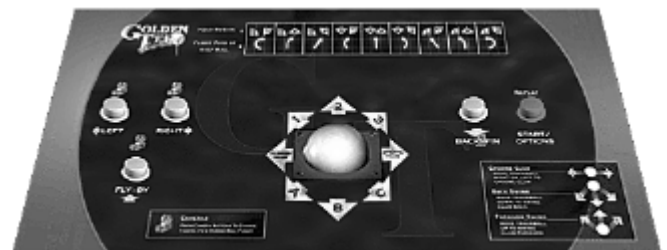
Golden Tee® Fore! comes equipped with graphics that will accommodate a variety of existing game cabinets. Follow these instructions to correctly install the control panel overlay and labels:

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. The background overlay provided with the game is oversized to accommodate most control panel sizes. Center the background overlay on the control panel surface. Be sure to leave enough excess material above and below the control panel in order to trim it evenly.
4. Remove the protective backing from the background overlay. Center the background overlay over the control panel and place down gently, making sure to keep it square. Using your hands (or a decal roller/squeegee), press down firmly starting from the center and smooth the background overlay outward. 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 removed and re-installed without damaging the overlay or adhesive. The decal roller or squeegee forces the cleaner out, leaving just the adhesive.

5. Using an X-acto knife (or other sharp instrument) carefully cut around the edges of your control panel, trimming any excess material.
6. 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.
7. Find the center of the hole in your trackball plate. Take the knife and poke a hole in the center. Follow the knife from the center to the edge of the trackball plate opening. Carefully trim out the entire trackball opening. This will allow for a good fit once the trackball is ready to be installed.
8. Following the diagram included cut the sheet of die-cut decals, place the included labels on your control panel. Refer to the diagram below for optimal placement.

TIPS: Make sure to line up the button and trackball labels with the holes you've cut out. Doing otherwise can make it difficult to install the button or trackball later.



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.

Control Panel Assembly

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 to the trackball plate. The trackball must be oriented correctly in order to function properly. Refer to the diagram located on page 55 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 where the hole and decal for the Start button is placed.
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 on page 51.

SIDE DECALS AND MARQUEE

Side Decal Installation

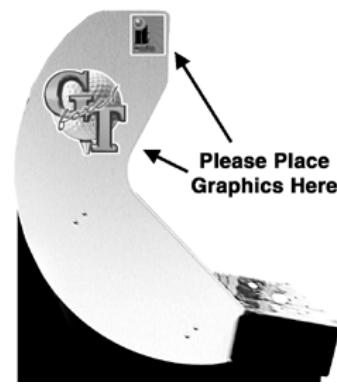
The following are the instructions on placing your side decals correctly on to the cabinet:

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.

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.

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.

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.

LED Display Marquee Installation

This package comes with a Tournament marquee for your cabinet's LED sign, to better distinguish your machine as an online unit, and advertise tournament play to your customers. To install, remove the 3 screws on the plastic bracket on top of the LED sign box. Position the Tournament Marquee in front of the red Plexiglas, making sure that the marquee is correctly seated in the bottom groove. Make sure the Plexiglas is clean, dry, and free of dust or grime before installing the marquee. Re-install the plastic bracket to hold the Plexiglas and marquee in place.

Printed Circuit Board (PCB)

NOTE!

Due to changes in components over time, Golden Tee Fore! has been manufactured on two different motherboards. The main PCBs have been color coded for easy identification. Please refer to sections marked Green Board or Red Board in this manual.

Golden Tee® Fore! uses a hard drive to store its game data. Make sure you mount your PCB in such a way as to allow easy connections to the hard drive cables. Refer to the next section for suggested mounting positions.

Golden Tee® Fore! has been manufactured on two different PCB configurations. The **GREEN BOARD** requires a Peter Chou power supply and has power connections that use the supplied Power Bypass Cable. The **RED BOARD** requires an ATX power supply that connects directly into the main PCB.

Please check the color of your PCB and refer to the appropriate pages in this manual for the appropriate information.

DIP SWITCH SETTINGS

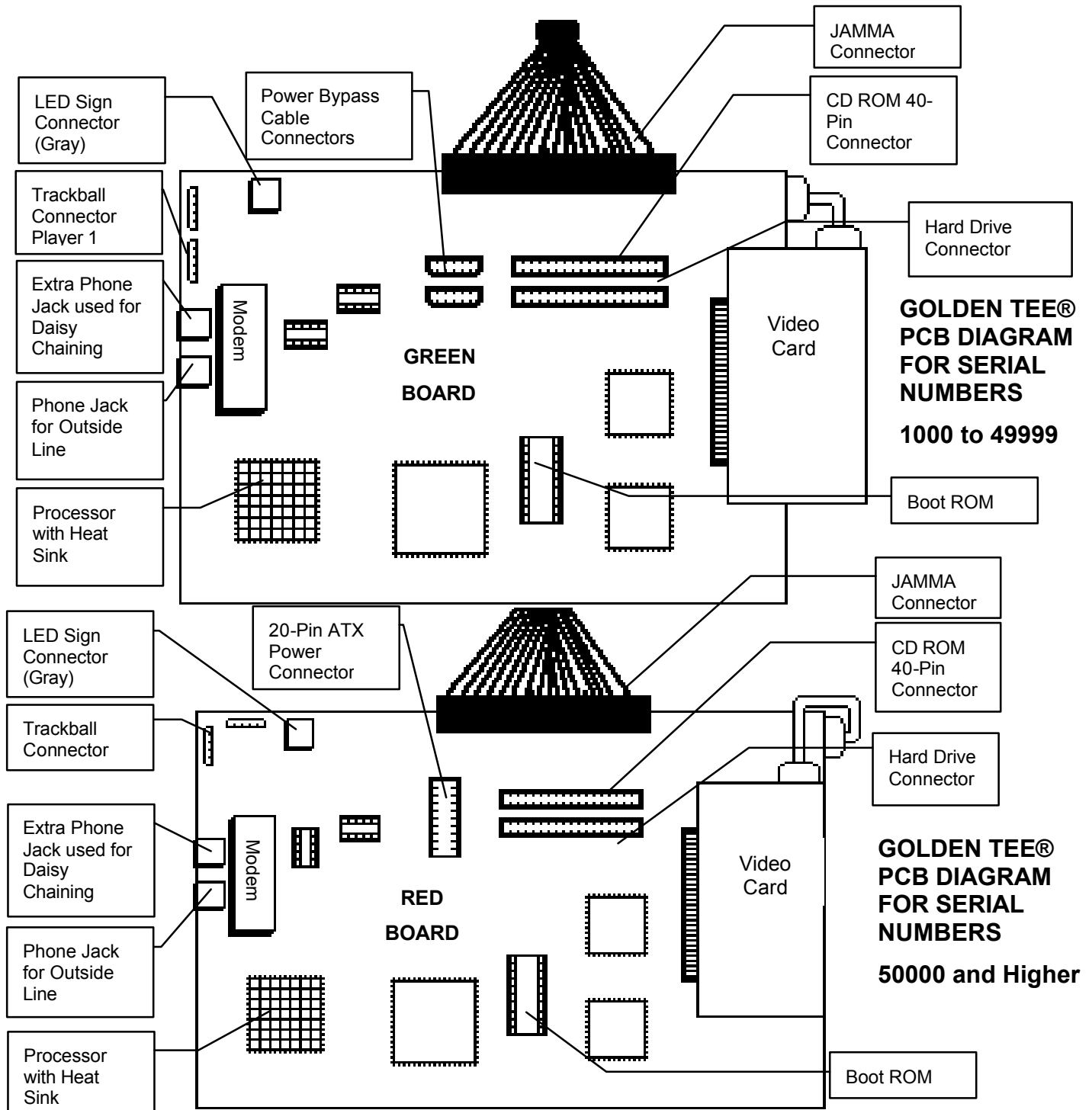
The **SW51-Dip switches** can be found on the main PCB near the JAMMA connector.

Dip Switch 1 (ON):	Normal Play (DEFAULT)
Dip switch 1 (OFF):	OPERATOR MODE
Dip switch 2 (ON):	Always "ON" (DEFAULT)
Dip switch 3 (ON):	Always "ON" (DEFAULT)
Dip switch 4 (ON):	Always "ON" (DEFAULT)

The **SW5-Dip switches** can be found near the flashing green LED. These are used to adjust monitor resolution.

Dip switch 1 (OFF):	Medium Resolution (DEFAULT)
Dip switch 1 (ON):	Low Resolution
**Dip switch 2 (OFF):	Low Resolution B Adjust
Dip switch 2 (ON):	Low Resolution A (DEFAULT)
Dip switch 3 (ON):	Always "ON" (DEFAULT)
Dip switch 4 (ON):	Always "ON" (DEFAULT)
**If you are experiencing a "jittery" image, try this mode to correct. Restart the game and adjust the monitor.	

GOLDEN TEE® FORE! PCB CONNECTIONS



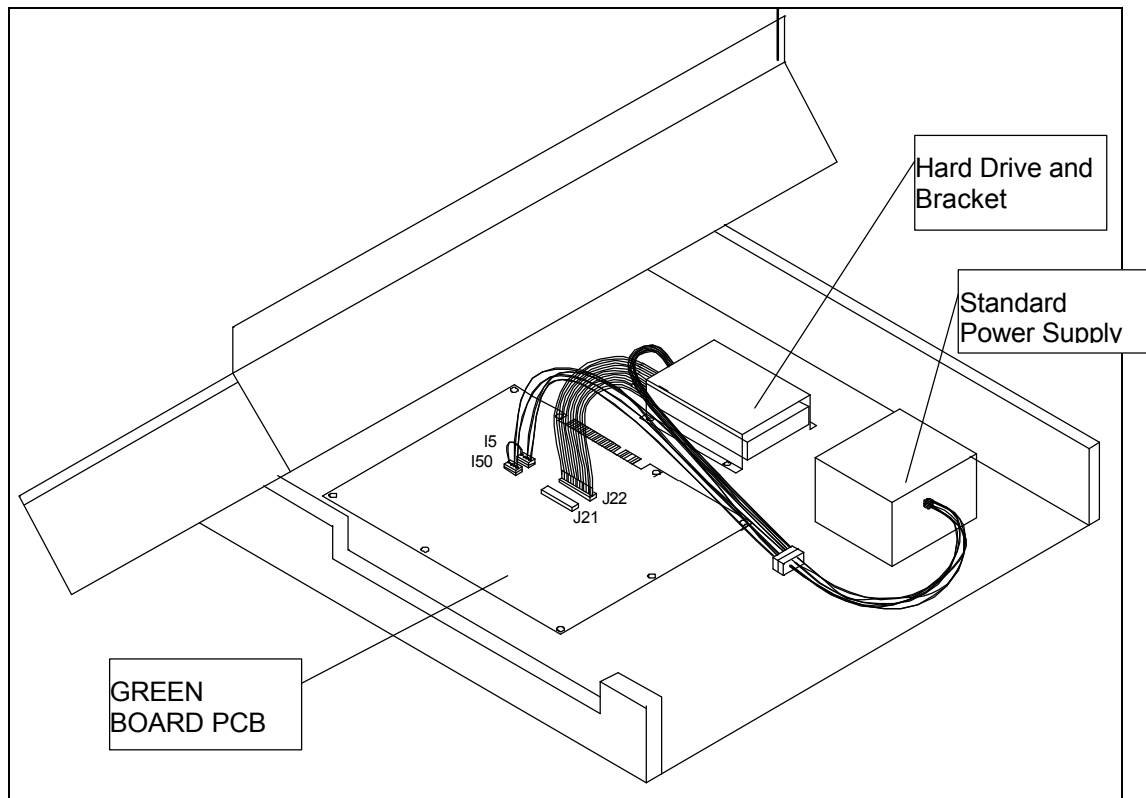
GREEN BOARD PCB and Hard Drive Installation

NOTE!

Due to changes in components over time, Golden Tee Fore! has been manufactured on two different motherboards. The main PCBs have been color coded for easy identification. Please refer to sections marked Green Board or Red Board in this manual.

The hard drive is shipped with a mounting bracket already attached. The bracket allows installation with a minimal number of steps and protects the electronics from damage due to improper handling. DO NOT REMOVE the bracket, as it may cause damage to the hard drive. Use the diagram shown below for positioning the hard drive assembly in different types of cabinets. Make sure to position the game board and the drive close enough for the two supplied cables to reach.

Two cables are supplied for the hard drive. Both cables are required for proper operation. Test fit the cables supplied for the hard drive before securing to the mounting surface. Use the Power Bypass Cable to supply power to the hard drive. See the insert for installation details. The supplied ribbon cable is for data transmission. Connect one end of this cable to the keyed connector at J21 on the game board, and the other end into the keyed connector on the hard drive.



Hard Drive Installation for GREEN BOARD PCB

Figure 1

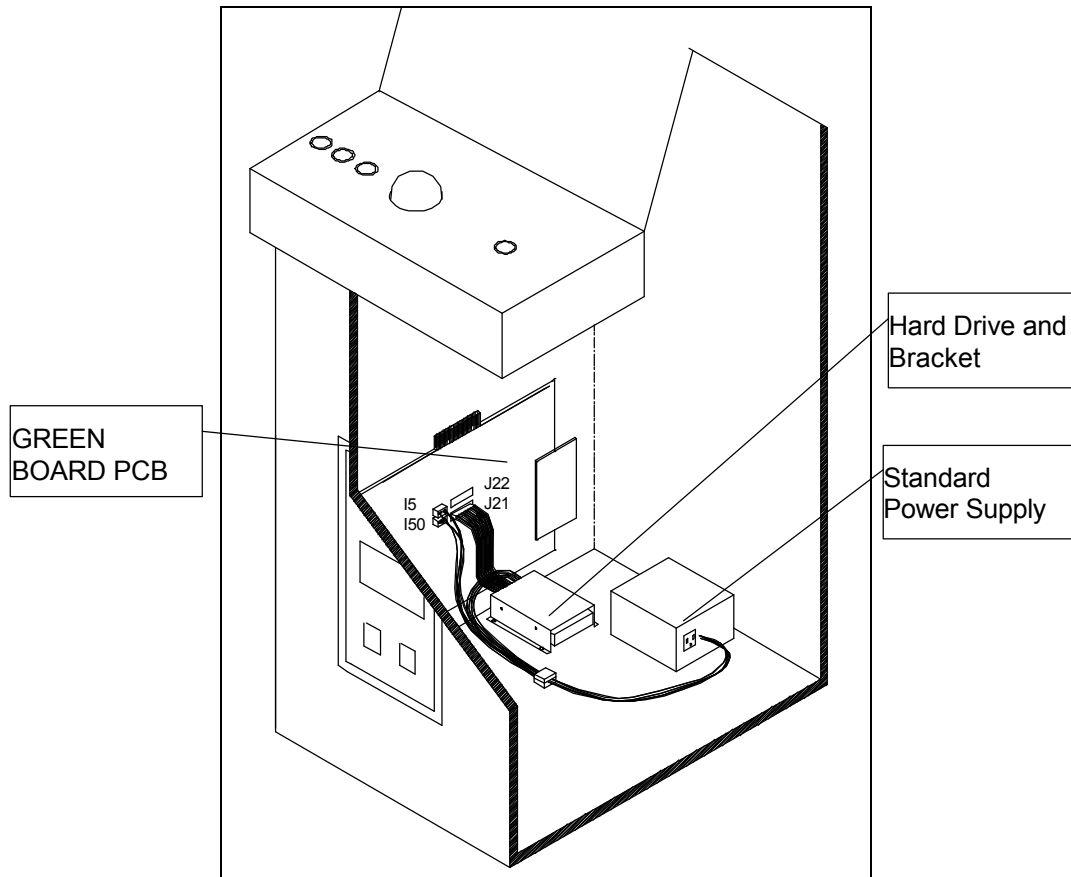
Option 1: Drawer-Mounted Installation

1. Locate the CPU Board 1 $\frac{3}{4}$ " from the open end of the control panel drawer and $\frac{1}{4}$ " from the left-hand side of the control panel drawer. Secure the CPU board using the ten supplied #6x3/4" hex washer head sheet metal screws. NOTE: Be sure the JAMMA connector pad faces toward the center of the drawer.
2. Locate the Hard Drive 12" from the open end of the control panel drawer, and 15" from the left-hand side of the control panel drawer. Attach with 4 #8X $\frac{3}{4}$ " wood screws (supplied). **Avoid jarring or vibrating the hard drive during installation. Do NOT use power tools.**
3. Connect the supplied Power Bypass Cable to the Hard Drive as shown on the Cable Instruction insert.
4. Connect the keyed Hard Drive ribbon cable to J21 on the CPU board, as shown in figure 1.

GREEN BOARD PCB and Hard Drive Installation Continued

CAUTION!

Hard drives are sensitive to both physical and electrical shock. **DO NOT DROP OR KNOCK OVER** the hard drive. Avoid shocks and other electrical discharges. **DO NOT REMOVE** the mounting bracket from the hard drive. Removal may cause damage to the hard drive and will void the warranty. Keep the supplied padded box for shipping any returns. Failure to use the supplied shipping box will void the warranty.



Hard Drive Installation for GREEN BOARD PCB

Figure 2

Option 2: Installation in Lower Cabinet

1. Install the CPU Board on the inside wall of the cabinet (left or right), approximately 1 ½" above the cabinet floor. Secure the CPU board using the ten supplied #6x3/4" hex washer head sheet metal screws.
2. Locate the Hard Drive on the cabinet floor, approximately 2" from the cabinet wall, and directly in line with the JAMMA connector. Attach with 4 #8X 3/4" wood screws (supplied). See figure 2. **Avoid jarring or vibrating the hard drive during installation. Do NOT use power tools.**
3. Connect the supplied Power Bypass Cable to the Hard Drive as shown on the Cable Instruction insert.
4. Connect the keyed Hard Drive ribbon cable to J21 on the CPU board, as shown in figure 2.

Returns

In kit games, the hard drive is shipped in a special padded box. In a dedicated cabinet, the shipping box is fastened to the inside bottom of the cabinet. Be sure to keep this box, in case you need to ship the hard drive. Ship the bracket with the hard drive. Do not remove the bracket from the hard drive. Failure to use the supplied box, or removal of the bracket, will VOID THE WARRANTY on the hard drive.

GREEN Board Wire Harness

If you are converting from an older model of Golden Tee® Golf, you will need to add two new wires for the new FLY-BY and BACKSPIN buttons. Refer to Appendix B for wiring locations and button installation for proper placement.

1. If you are installing Golden Tee® Fore! into a Dynamo cabinet with a pre-installed JAMMA harness, you will notice that it does not have a wire for the test switch. You will have to add a contact to the edge connector at the proper position (position 15). Some cabinets (Dynamo included) have only one coin switch input and the coin switches are wired together. Connect the designated wires to the coin switches separately.
2. Attach the wire harness connector to the PCB. Be sure it is mounted correctly.

WARNING!

Make sure you have identified PIN 1 on the connector before powering up. Plugging the JAMMA connector in backwards will cause damage to the PCB.

3. It is best to use connectors (not supplied) whenever joining a set of harness wires to a subassembly. If you choose to solder wires together, follow this procedure:
4. Strip off about ½" of insulation from the wire.
5. Slide a piece of heat-shrink tubing over the end.
6. Do not leave a lot of excess wire spooled up in your cabinet. Cut the wires to the length you need plus a few extra inches. Leave enough for proper cable dressing. Do not make it stretch across the inside of the cabinet.
7. Solder the new wire to the original wire. Use a straight in-line splice.

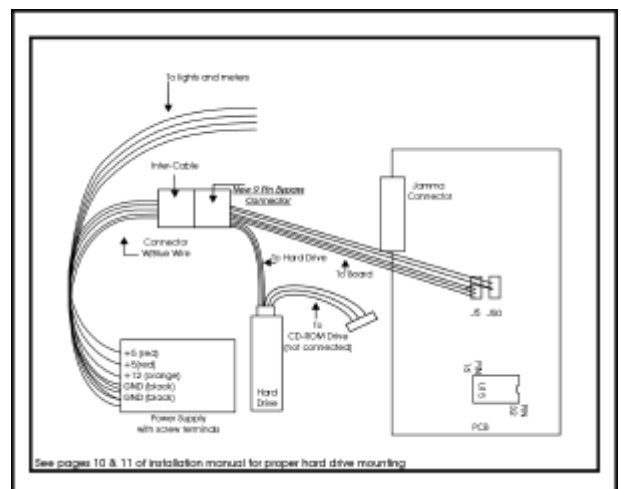
Power Wires

Because of current consumption, your Golden Tee Fore! machines will perform best if power is safely re-routed around the JAMMA connector.

Instructions for Most Power Supplies with Screw Terminals:

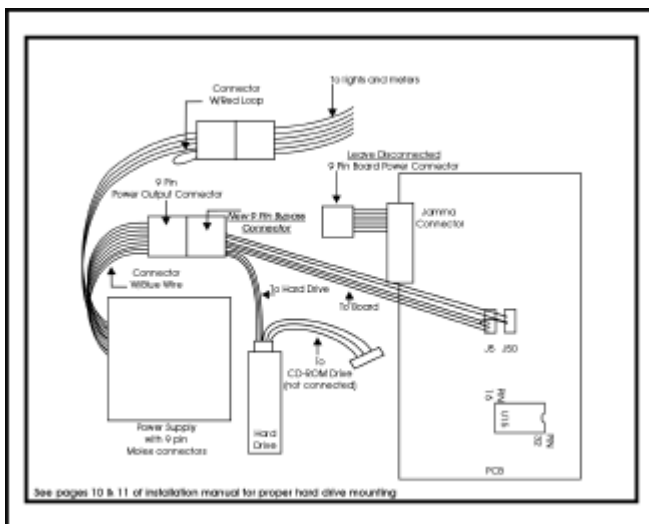
Please follow the instructions below to properly install the new Power Bypass Cable to a **Power Supply with Screw Terminals**:

1. Turn power to the cabinet and power supply completely off.
2. Disconnect the +5, +12 and GND wires going from the Power Supply to the JAMMA Connector. *Do not disconnect any wires used for lights and meters.*
3. Connect the supplied Inter-Cable to the Power Supply. *Connect the 2 red wires to +5, the 2 black wires to GND and the Orange wire to +12 on the Power Supply.*
4. Connect the 9-pin Connector on the Inter-Cable to the 9-Pin Connector on the Power Bypass Cable.
5. Locate the two plugs labeled "TO BOARD" on the new Power Bypass Cable. Connect them to the connectors labeled J50 and J5 on the Logic Board.
6. Locate the plug labeled "TO HARD DRIVE" on the new Power Bypass Cable. Connect this to the Hard Drive.
7. The Cable labeled "TO CD ROM" on the new Power Bypass Cable remains unused. *This is meant for future use to perform updates with a CD ROM drive. Always be sure the CD ROM drive is set to SLAVE Mode.*
8. Turn power on and enter Service Mode. Go to System Tests/Motherboard Tests/Voltage Adjustment. Adjust the Power Supply using the potentiometer to the highest Acceptable Range. *This setting should measure approximately 5.10 volts when measured across Pins 16 and 32 of the U15 EPROM.*



Instructions for Most Power Supplies with 9-Pin Molex Connectors:

1. Turn power to the cabinet and power supply completely off.
2. Disconnect the two 9-pin Power Output Connectors from the Power Supply. *On most Peter Chou and compatible power supplies, there are two 9-pin Molex connectors. Disconnect them both.*
3. Connect the new Power Bypass Cable to the FULLY POPULATED 9-pin Power Output Connector on the Power Supply. *Be sure you use the one that has 3 red wires, 3 black wires, and the last 3 are white, yellow and blue.*
4. Connect the remaining 9-pin Power Connector. *The Connector from the supply does not have the blue-and-white wire. The mating connector is for powering lights, meters and other non-PCB devices.*
5. Locate the two plugs labeled "TO BOARD" on the new Power Bypass Cable. Connect them to the connectors labeled J50 and J5 on the Logic Board.
6. Locate the plug labeled "TO HARD DRIVE" on the new Power Bypass Cable. Connect this to the Hard Drive.
7. The Cable labeled "TO CD ROM" on the new Power Bypass Cable remains unused. *This is meant for future use to perform updates with a CD ROM drive. Always be sure the CD ROM drive is set to SLAVE Mode.*
8. Turn power on and enter Service Mode. Go to System Tests/Motherboard Tests/Voltage Adjustment. Adjust the Power Supply using the potentiometer to the highest Acceptable Range. *This setting should measure approximately 5.10 volts when measured across Pins 16 and 32 of the U15 EPROM.*



Be sure to check your JAMMA connector and make sure it is tightly connected. Detailed instructions and photos of this installation can be viewed on the Operator Services section of the IT web site, www.itsgames.com.

SYNC

This is the recommended approach for a Wells-Gardner monitor and should work with some others as well.

If your monitor does not have a composite SYNC input but has separate horizontal and vertical SYNC inputs, try connecting the composite SYNC signal from the PCB to the negative horizontal SYNC signal on the monitor. This should produce a satisfactory result, although some adjustment of the monitor's SYNC controls may be necessary.

Coin Doors, Test Switch, Service Button, and Volume Control Panel

Wire the coin doors and the test / service switch(es) as per the JAMMA Harness Connection table on page 51. Connect the door lamps to the +12 vdc supply. Some games have separate power supply outputs for the lamps.

For Non-Tournament Machines Only:

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® Fore! 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 on page 51.

Final Check

Check the game inside and out for any imperfections. Secure any loose wiring or fastening hardware.

Make sure the coin door is tight and the coin mechs are well adjusted.

NOTE:

Make sure all assemblies are firmly attached. Anything that is not mounted securely will rattle when the game is played. This game makes use of low-frequency sounds that can cause any loose joints to rattle.

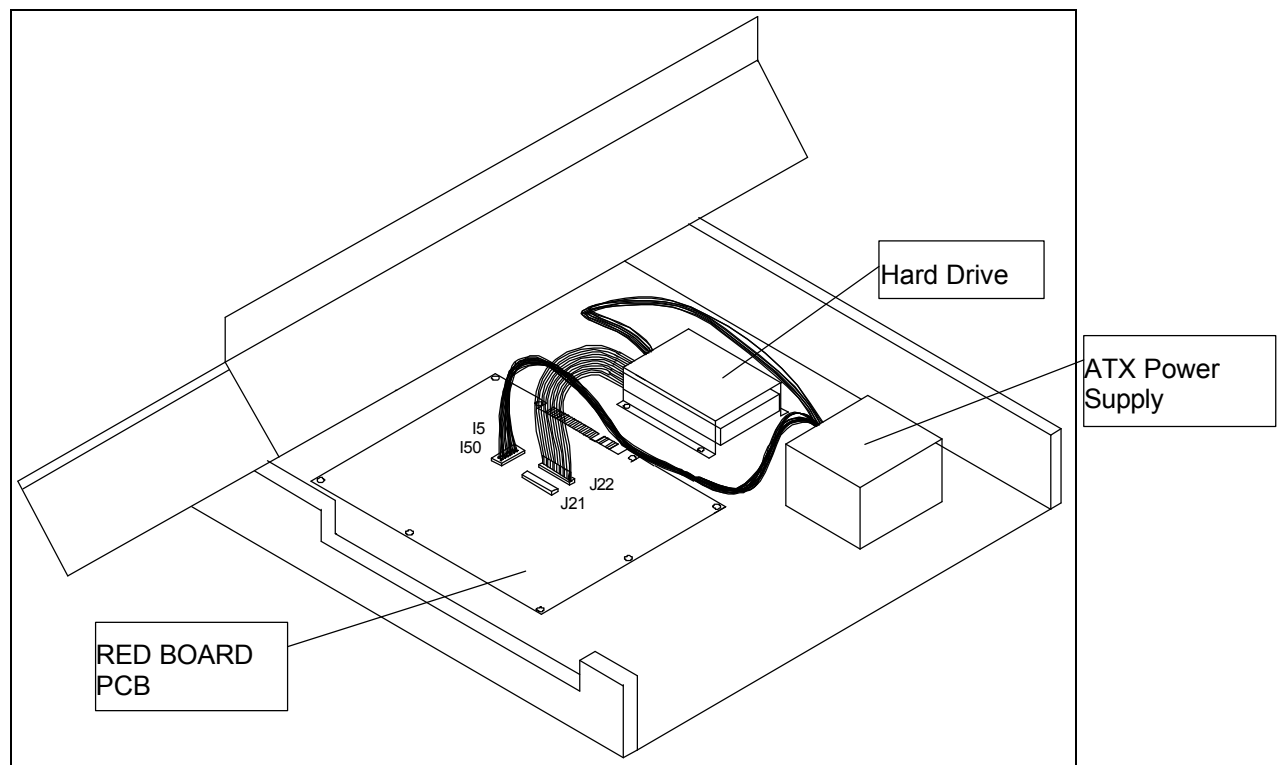
RED BOARD PCB and Hard Drive Installation

NOTE!

Due to changes in components over time, Golden Tee Fore! has been manufactured on two different motherboards. The main PCBs have been color coded for easy identification. Please refer to sections marked Green Board or Red Board in this manual.

The hard drive is shipped with a mounting bracket already attached. The bracket allows installation with a minimal number of steps and protects the electronics from damage due to improper handling. DO NOT REMOVE the bracket, as it may cause damage to the hard drive. Use the diagram shown below for positioning the hard drive assembly in different types of cabinets. Make sure to position the game board and the drive close enough for the supplied cables to reach.

One ribbon cable is supplied for the hard drive. Test fit the ribbon cable supplied for the hard drive before securing to the mounting surface. See the insert for installation details. The supplied ribbon cable is for data transmission. Connect one end of this cable to the keyed connector at J21 on the game board, and the other end into the keyed connector on the hard drive. Connect one of the 4-pin Disk Drive Connectors from the ATX power supply to the hard drive.



Hard Drive Installation for RED BOARD PCB

Figure 3

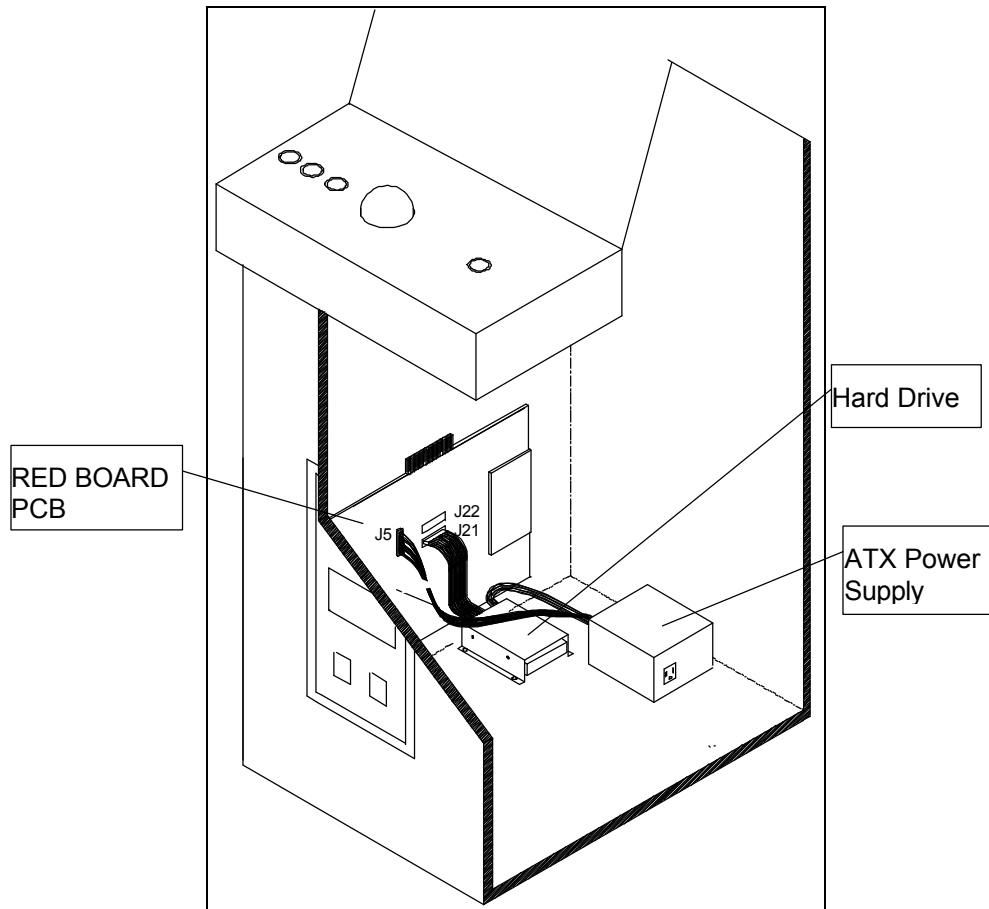
Option 1: Drawer-Mounted Installation

1. Locate the CPU Board 1 $\frac{3}{4}$ " from the open end of the control panel drawer and $\frac{1}{4}$ " from the left-hand side of the control panel drawer. Secure the CPU board using the ten supplied #6x $\frac{3}{4}$ " hex washer head sheet metal screws. NOTE: Be sure the JAMMA connector pad faces toward the center of the drawer.
2. Locate the Hard Drive 12" from the open end of the control panel drawer, and 15" from the left-hand side of the control panel drawer. Attach with 4 #8X $\frac{3}{4}$ " wood screws (supplied). **Avoid jarring or vibrating the hard drive during installation. Do NOT use power tools.**
3. Connect the 4-pin disk drive power connector from the ATX Power Supply to the Hard Drive as shown above.
4. Connect the keyed Hard Drive ribbon cable to J21 on the CPU board, as shown in figure 3.

RED BOARD PCB and Hard Drive Installation Continued

CAUTION!

Hard drives are sensitive to both physical and electrical shock. **DO NOT DROP OR KNOCK OVER** the hard drive. Avoid shocks and other electrical discharges. **DO NOT REMOVE** the mounting bracket from the hard drive. Removal may cause damage to the hard drive and will void the warranty. Keep the supplied padded box for shipping any returns. Failure to use the supplied shipping box will void the warranty.



Hard Drive Installation for RED BOARD PCB

Figure 4

Option 2: Installation in Lower Cabinet

1. Install the CPU Board on the inside wall of the cabinet (left or right), approximately 1 ½" above the cabinet floor. Secure the CPU board using the ten supplied #6x3/4" hex washer head sheet metal screws.
2. Locate the Hard Drive on the cabinet floor, approximately 2" from the cabinet wall, and directly in line with the JAMMA connector. Attach with 4 #8X ¾" wood screws (supplied). See figure 2. **Avoid jarring or vibrating the hard drive during installation. Do NOT use power tools.**
3. Connect the 4-pin disk drive power connector from the ATX Power Supply to the Hard Drive as shown above.
4. Connect the keyed Hard Drive ribbon cable to J21 on the CPU board, as shown in figure 4.

Returns

In kit games, the hard drive is shipped in a special padded box. In a dedicated cabinet, the shipping box is fastened to the inside bottom of the cabinet. Be sure to keep this box, in case you need to ship the hard drive. Ship the bracket with the hard drive. Do not remove the bracket from the hard drive. Failure to use the supplied box, or removal of the bracket, will VOID THE WARRANTY on the hard drive.

RED BOARD Wire Harness

If you are converting from an older model of Golden Tee® Golf, you will need to add two new wires for the new FLY-BY and BACKSPIN buttons. Refer to Appendix B for wiring locations and button installation for proper placement.

1. If you are installing Golden Tee® Fore! into a Dynamo cabinet with a pre-installed JAMMA harness, you will notice that it does not have a wire for the test switch. You will have to add a contact to the edge connector at the proper position (position 15). Some cabinets (Dynamo included) have only one coin switch input and the coin switches are wired together. Connect the designated wires to the coin switches separately.
2. Attach the wire harness connector to the PCB. Be sure it is mounted correctly.

3. **WARNING!**
Make sure you have identified PIN 1 on the connector before powering up. Plugging the JAMMA connector in backwards will cause damage to the PCB.

4. It is best to use connectors (not supplied) whenever joining a set of harness wires to a subassembly. If you choose to solder wires together, follow this procedure:
5. Strip off about 1/2" of insulation from the wire.
6. Slide a piece of heat-shrink tubing over the end.
7. Do not leave a lot of excess wire spooled up in your cabinet. Cut the wires to the length you need plus a few extra inches. Leave enough for proper cable dressing. Do not make it stretch across the inside of the cabinet.
8. Solder the new wire to the original wire. Use a straight in-line splice.

Power Supply and Connections

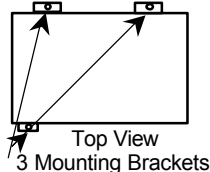
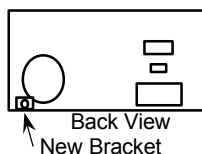
Because of current consumption, your Golden Tee Fore RED BOARD connects directly to a 250-Watt ATX Power Supply.

To correctly mount the ATX Power Supply, you will need to add a third bracket (supplied).

Attach the mounting bracket to the power supply using the 6-32x1/4" machine screw.

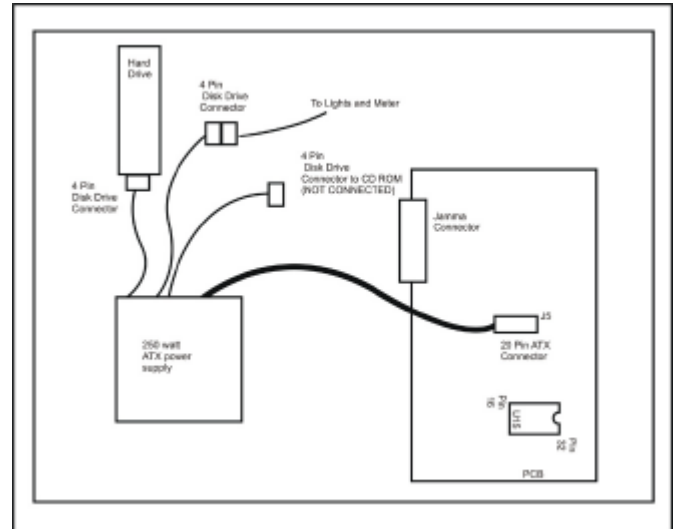
Place the power supply in its intended location.

Secure the power supply using the three supplied #6x1/2" hex washer head sheet metal screws.



Instructions for ATX Power Supplies:

1. Turn power to the cabinet and power supply completely off.
2. Connect the 20-Pin ATX Connector directly into the RED BOARD socket J5.
3. Locate one Hard Drive Power Connector from the ATX Power Supply. Use this connector for powering lights, meters and other non-pcb devices.



4. Locate another Hard Drive power connector on the ATX Power Supply. Connect this to the Hard Drive.
5. The third Hard Drive connector from the power supply remains unused. *This is meant for future use to perform updates with a CD ROM drive. Always be sure the CD ROM drive is set to SLAVE Mode.*
6. Turn power on while holding down the start button to initiate a diagnostic test. Run this test to make sure your RED BOARD is functioning properly.
7. Be sure to check your JAMMA connector and make sure it is tightly connected. Detailed instructions and photos of this installation can be viewed on the Operator Services section of the IT web site, www.itsgames.com.

SYNC

This is the recommended approach for a Wells-Gardner monitor and should work with some others as well.

If your monitor does not have a composite SYNC input but has separate horizontal and vertical SYNC inputs, try connecting the composite SYNC signal from the PCB to the negative horizontal SYNC signal on the monitor. This should produce a satisfactory result, although some adjustment of the monitor's SYNC controls may be necessary.

Coin Doors, Test Switch, Service Button, and Volume Control Panel

Wire the coin doors and the test / service switch(es) as per the JAMMA Harness Connection table on page 51. Connect the door lamps to the +12 vdc supply. Some games have separate power supply outputs for the lamps.

For Non-Tournament Machines Only:

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® Fore! 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 on page 51.

Final Check

Check the game inside and out for any imperfections. Secure any loose wiring or fastening hardware.

Make sure the coin door is tight and the coin mechs are well adjusted.

NOTE:

Make sure all assemblies are firmly attached. Anything that is not mounted securely will rattle when the game is played. This game makes use of low-frequency sounds that can cause any loose joints to rattle.

CONNECTING THE PHONE LINE

In order for your game to enjoy online features, you must connect the game to a regular telephone line. ITNet® requires a regular phone line that gives a dial tone. Phone systems that are not direct outside lines may not work.

1. Make sure that the supplied long telephone cable is plugged into the modem connector on the PCB labeled PHONE 1. Thread the cable through the mouse hole below the back door. Be sure to loop the cable through the cable clip for extra strain relief.
2. Connect the loose end of the long cable into any existing telephone jack. Use the included splitter if you are connecting to a jack already in use.

IMPORTANT!

Your game will receive code updates through the phone line, even if you are not registered with the ITNet® system. However, you **MUST** be registered with ITNet® and appropriate operator papers must be on file with Incredible Technologies, Inc. or your game will not receive the ITNet® play features.

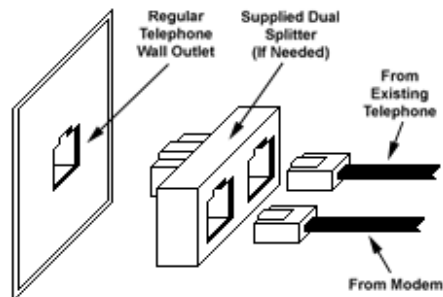
NODE CONNECTIONS

If you are planning to place more than one online machine in a location, you may want to connect them together so all of the ITNet® machines share the same phone line. Follow the directions below to correctly daisy chain your cabinets together.

ITNet® games can be connected together and share one phone line. Connect the first game cabinet to the phone line following the directions on the previous page.

From the first cabinet, connect the long round 50-foot telephone cable that is supplied with each game, to the phone jack on the PCB marked PHONE2. Connect the other end of this cable into the phone jack marked PHONE1 on the next cabinet in line. If a third cabinet is to be connected, attach another telephone cable to the jack marked PHONE2 on the second cabinet. Attach the other end of the cable to the jack marked PHONE1 on the third cabinet. Repeat this sequence until all of your tournament machines are daisy-chained together.

All ITNet® compatible games have the ability to be connected together in a location. Even if each machine is a different game or cabinet, only one phone line will be necessary for all the data to be transferred.



Connecting to the Wall

INITIAL POWER-UP

1. Connect the JAMMA Harness.

WARNING!

Make sure the JAMMA harness, hard drive, and all other connections are plugged in correctly. Damage to the PCB will occur if the JAMMA connector is plugged in wrong.

2. Plug in the game and turn it ON.
3. Look and smell for smoke (TURN IT OFF IMMEDIATELY IF ANY IS NOTICED).
4. Make sure the LED's on the PCB are flashing. If not, something is wrong, turn off the game.
5. Listen for sound. Sounds should be heard in the attract mode if it is a new game on for the first time.
6. How is the picture? Is it centered? Is it too bright? Is it in focus? Adjust your monitor to get the best picture possible.

NOTE:

Check your monitor manual to make adjustments. Some test patterns are available through the game's system tests by pressing the Test switch. Use them when making any adjustments. (See System Tests Menu on page 35). Proper monitor adjustment is very important.

7. Try all coin switches. Drop quarters or tokens through to check the coin mechs. Insert a dollar bill into the bill validator and listen for the credits to ring up. Make sure the game is adding credits. You can use the PLAYER CONTROL TEST by pressing the test switch and entering the SYSTEM TESTS MENU. Do all of the controls work? Try playing the game with the volume up and listen for rattling as you play. Tighten anything that is making noise.
8. Upon initial power-up, the game will initialize to factory default settings. These settings affect game elements such as number of credits per coin, difficulty settings, etc. The OPERATOR ADJUSTABLES MODE section will describe how to alter these settings and view the system audits or run system tests.
9. If you wish to automatically run a series of system tests, hold down the START button when you power up the game cabinet. The game will automatically perform the MAIN MEMORY, VIDEO MEMORY, PLAYER CONTROL, SOUND TEST and HARD DRIVE tests. This is a good, quick way to check the integrity of your PCB.

ITNet® OPERATOR REGISTRATION

Follow these simple instructions to become eligible to operate ITNet® online features.

1. Fill out the ITNet® Debit Account Form, found in your ITNet® Procedures Manual, and open a Debit Account at your local bank.
2. Read and sign the ITNet® Operator Agreement, found in your ITNet® Procedures Manual.
3. Fax or mail these two forms to Incredible Technologies, Inc. to become an authorized ITNet® Operator.
4. Once these forms are processed, you will receive your ITNet® Operator ID Card in the mail.

The Operator ID Card allows you to:

Register your games for online play right on-site.

Activate games, add and change location information, and de-activate games at the location.

Gains access to the personalized IT Operator Services web site.

Check audits, bookkeeping and game play statistics and make game adjustments from your home or office.

NOTE:

If you are a brand new ITNet® operator and can't wait for your Operator ID card to arrive in the mail, you can fax the GAME REGISTRATION FORM, found in your ITNet® Procedures Manual, to Incredible Technologies. The ITNet® staff will then enter your machine's location data for you. Please allow 2 to 5 business days for processing. When your machine calls in, it will automatically register to your account and activate the online features.

If converting from a previous version of Golden Tee® Golf tournament cabinet. THE ORIGINAL CABINET NUMBER IS NO LONGER VALID! The new Golden Tee Fore PCB has its own new number. This number can be found on the new PCB or at the top of the screen in test mode.

ITNet® INSTALLATION PROCEDURE

Follow these simple instructions for game and ITNet® setup.

1. Follow the instructions above to become an ITNet® operator and receive your Operator ID card.
2. Set up your ITS®-compatible game cabinet as you would any other video game. If you have a tournament version, be sure the LED sign is properly connected or you will not receive tournament play. Refer to the troubleshooting sections in this manual for further help. Power should remain OFF at this point.
3. Turn on the game. You may have to wait a few seconds for hard drive access. If the game is not registered a screen will appear asking you to swipe your operator card to start the registration process. If you do not have your card, or do not have it ready, it will time out after 60 seconds.
4. If the game is already turned on you can still use your card to register your game. Enter Operator Mode by pressing the test button inside the coin door. Then from the MAIN MENU, select ITNet® MENU, then GAME AND LOCATION REGISTRATION. Follow the On-screen instructions. Insert your ITNet® Operator Identification Card when prompted.

NOTE:

If you do not have your Operator ID Card yet, you can fax the Game Registration Form to Incredible Technologies. The ITNet® staff will then enter your machine's location data for you. Please allow 2 to 5 business days for processing. When your machine calls in, it will automatically register to your account and activate the online features.

5. Enter all of the necessary location information carefully and accurately. When completed, the game will automatically attempt to connect to the ITNet®. Pay attention to the various screen messages as the game makes its call, to spot any trouble areas.
6. Automatic installation is successful when the screen displays a SUCCESSFUL message. If any unsuccessful message appears, the game will try again automatically in a few minutes, or you can enter Operator Mode by pressing the test button inside the coin door and manually force a call. If your first few attempts to call are unsuccessful, refer to the troubleshooting guide in your manual or call your distributor.
7. The game is now connected to the ITNet® System and ready for public play! Online features will be automatically activated by Incredible Technologies.

OPERATOR MODE

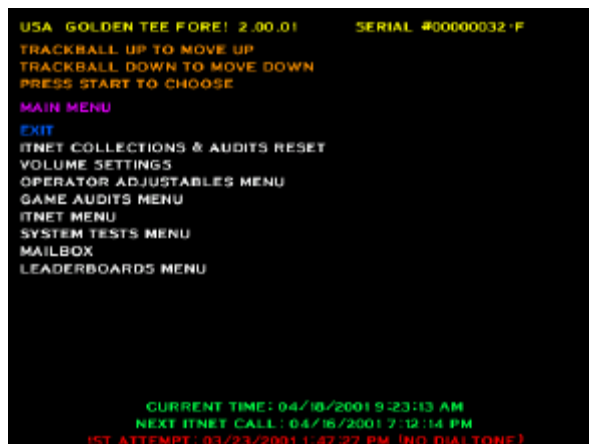
The **OPERATOR MODE** can be entered in one of three ways:

1. Pressing the Test Button located inside the coin door,
2. Flipping the SW51-DIP Switch 1 to the "OFF" position,
3. Or, by swiping your Operator card in the card reader during the attract mode.

NOTE:

If you used SW51-DIP Switch 1 to enter the MAIN MENU, you will need to flip SW51-DIP Switch 1 back to the ON position in order to return to the game.

When in **OPERATOR MODE**, the game's country code, product name, and software version and the specific Game Serial Number are displayed at the top of the screen.



NOTE:

In most screens where amounts are displayed in dollars, holding down the BACKSPIN button will convert the value into coins. Releasing the button puts the values back into their original dollar and cents form.

Menu items can be highlighted in one of two ways: rolling the trackball Up and Down or by pressing the LEFT and RIGHT buttons. To select a highlighted item, press the START button. You can tell a menu item is highlighted as it will flash.

To exit most tests or menus and return the game to its normal state, use the trackball or LEFT and RIGHT buttons to highlight the line that says EXIT, and press the start button. Otherwise, hitting start will normally exit you out of any test you are in that does not have that option.

At the bottom of most menu screens are displayed the current date and time, next ITNet® call date and time, and the last date and time ITNet® was called (successful or not). If the last call was unsuccessful, a short error message is displayed on the First Attempt line.

The **MAIN MENU** allows you to enter several different areas:

ITNET® COLLECTIONS & AUDITS RESET displays the current machine coin counts, for use in separation of ITNet® fees from your collections.

VOLUME SETTINGS is used to adjust the volume of your game for your location.

OPERATOR ADJUSTABLES MENU is used for customizing the game to your location including player costs per game, skill level settings, attract mode sounds, etc.

GAME AUDITS MENU allows you to check your game's coin, games purchased, course, and lifetime audits.

ITNET® MENU is redesigned to take advantage of many of the ITNet® capabilities including registering your machine with ITNET®, disabling/enabling calls to ITNET®, and forcing a call to ITNet™.

SYSTEM TESTS MENU verifies the operation of the hardware, controls, and monitor through easy and automatic procedures accessed through this menu.

MAILBOX is a feature that was designed with the operator in mind. However, it is currently not functional in this version of Golden Tee Fore!

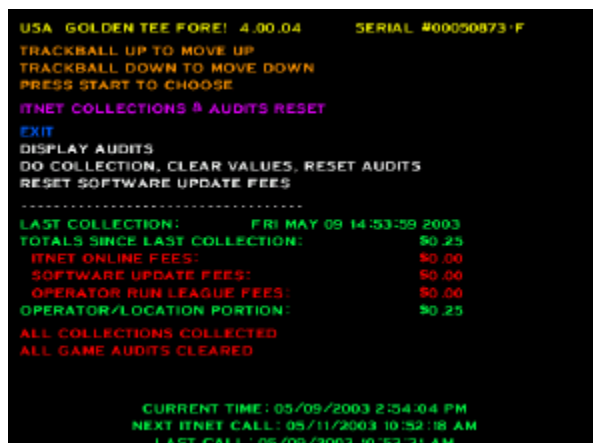
LEADERBOARDS MENU gives you quick and easy access to the Stroke Play leaderboards for each course.

COLOR KEY NOTE:

For easy identification, all test screens have been color-coded. Items displayed in PURPLE are the Menu titles. This is the name of the menu that is currently displayed. Items appearing in ORANGE are instructions for that screen. The WHITE items are choices available on that menu. The BLUE item is the selection that is currently highlighted and/or can be changed*. Any item shown in GREEN or YELLOW is an unselectable or pre-set unchangeable item. Items appearing in RED mean an action should be taken or the machine is displaying a warning. *This selection will now flash for easy recognition.

ITNET® COLLECTIONS & AUDITS RESET

Use this screen to assist in bookkeeping when doing collections from your cabinet. This will show you the amount of money owed to ITNet® as well as your portion currently in the cabinet. Holding down the BACKSPIN button on this screen will convert all values shown as dollars into coins.



EXIT is used when you just want to see the current amount of money in the machine but a collection is not being made and you do not want to clear the values.

DISPLAY AUDITS will take you to the game audits menu. This can be useful when trying to do bookkeeping right at the cabinet or for seeing why ITNet® portion is a certain amount.

DO COLLECTION, CLEAR VALUES, RESET AUDITS is used to erase all of the collection counts stored in memory and reset the game audits. Pressing the START button here will take you to a verification screen asking if you are sure. If you say NO, it will take you back to the collections screen leaving all counts intact. If you say YES, it will complete the collection and take you back to the collections screen. You will notice all dollar amounts are now zero and two messages stating the collections were cleared and the audits reset will show up at the bottom in red.

RESET SOFTWARE UPDATE FEES lets you clear the Software Update Fee amount displayed on this menu. Software Update Fees can be used to present to the location if they are helping to share in the cost of the annual updates.

TOTALS SINCE LAST COLLECTION displays the total number of dollars in the machine since the audits were last reset.

ITNET® ONLINE FEES displays the amount of money owed to ITNET®. Separate this amount from your collection before you make your split, if any, with the location. Deposit this amount into your debit account on a timely basis to ensure proper funds.

SOFTWARE UPDATE FEES displays the amount of money you can charge your location to help pay for your updates (for updates ordered using the monthly Payment Plan only). This amount is for the operator's benefit only and will not appear on the ITNet® statement.

OPERATOR RUN LEAGUE FEES displays the amount of money paid by players as part of their "dues" for participating in your operator-run leagues.

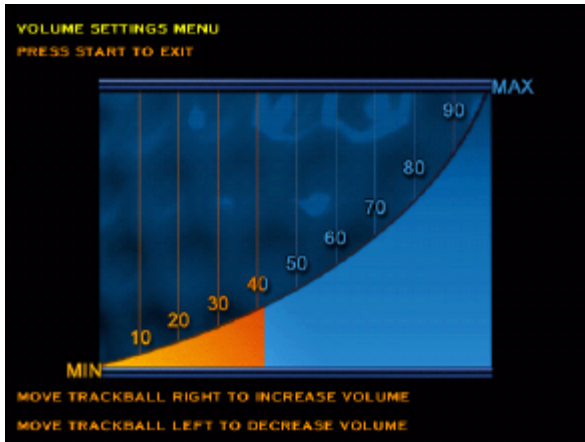
OPERATOR/LOCATION PORTION displays the amount of money in the machine, minus the ITNet® portion. This is the amount of your collection that you may split with your location.

NOTE:

In order to make bookkeeping easier, all audits but the lifetime coin count will reset with each collection, making everything more synchronized.

VOLUME SETTINGS

The **VOLUME SETTINGS** screen is used to adjust the volume of sounds and music that are heard during game play.

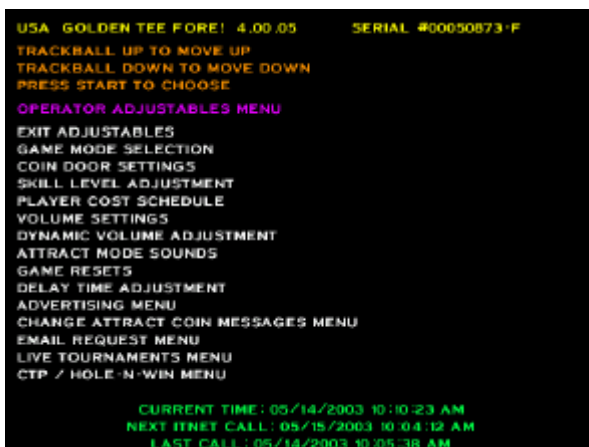


When this screen appears, music will play. Move the trackball to the right to increase the game's sounds and music. Roll the trackball to the left to make the game sounds softer. When you have adjusted the sounds to the appropriate volume, press the START button to exit back to the main menu. (This level will default at 40.)

The Golden Tee Fore dedicated cabinet also comes equipped with volume increase/decrease push buttons located inside the coin door.

OPERATOR ADJUSTABLES MENU

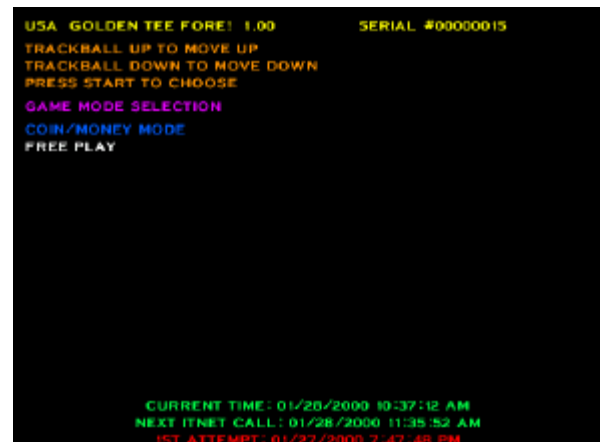
The **OPERATOR ADJUSTABLES MENU** is accessed through the **MAIN MENU**.



You can control many customizing procedures. The following are brief descriptions of each adjustable function and what the screen looks like when displayed. Remember to select an item from any menu, use the trackball to highlight the item in blue and then press the START button.

GAME MODE SELECTION

This menu allows you to place the game in standard **COIN/MONEY MODE**, or choose **FREE PLAY**.



COIN/MONEY MODE, the game will only work if coins (or dollar bills if you have a bill acceptor) are deposited into the game.

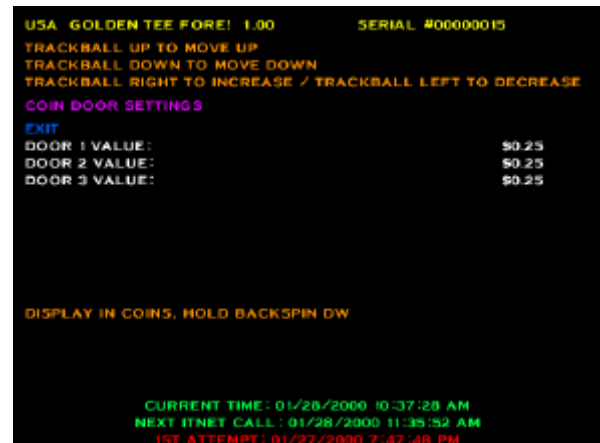
In **FREE PLAY**, coins are not needed for play, and the START button is always active.

NOTE:

If **FREE PLAY** is set to ON, your machine will not allow tournament or league play.

COIN DOOR SETTINGS

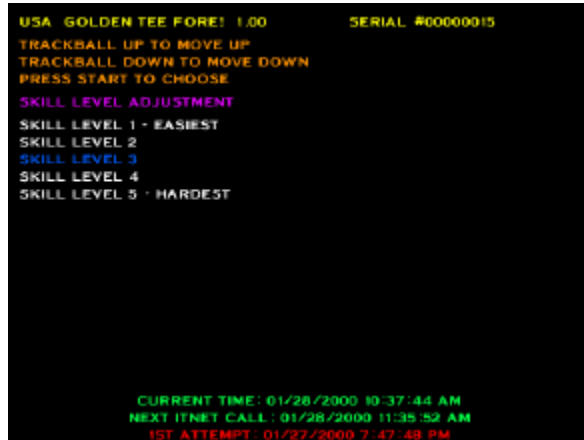
This menu allows you to change the values Golden Tee® Fore! reads in for each activated door.



You can set each coin door to different coin/money values by highlighting DOOR 1 VALUE for coin door 1, DOOR 2 VALUE for coin door 2, etc. Moving the trackball left or right will change the cash value that each coin or pulse represents. If Door 3 is a bill acceptor, most often this value should remain at the value of 1 coin, as the acceptor will pulse 4 times for a dollar.

SKILL LEVEL ADJUSTMENT

Golden Tee® Fore! lets you change the skill level needed to play the game. This setting lets you adjust some of the playing conditions such as slope of the green, wind speed, and putting sensitivity. This is good for locations with younger/novice players who are less skilled at the game, or expert/accomplished players who demand a greater challenge.



To set the game to an easy skill level, highlight **SKILL LEVEL 1 – EASIEST**.

To set the game to a difficult skill level, highlight **SKILL LEVEL 5 – HARDEST**.

SKILL LEVEL 3 is the default skill level and approximately the skill required for the average player. Sometimes it is best if the skill level is adjusted gradually over a period of time.

NOTE:

The skill level adjustment will only affect regular play. The skill level on all Tournament games is controlled by ITS® via ITNet®, so every machine plays the same. League Play is at a pre-set, unchangeable level.

PLAYER COST SCHEDULE

The following costs can be set in this menu:

3 STROKE/SKINS, 9 STROKE/SKINS, and 18 STROKE/SKINS, 9 LEAGUE PLAY and 18 LEAGUE PLAY, 9 TOUR and 18 TOUR (Tournament), 9 TOUR W/ OPPONENT and 18 TOUR W/ OPPONENT (Online Opponent feature) and MULLIGANS. Special Note: There is no cost added onto League Play for the Shadow Game Feature.

USA GOLDEN TEE FORE! EX 5.01.01 SERIAL #00000920-F			
TRACKBALL UP TO MOVE UP			
TRACKBALL DOWN TO MOVE DOWN			
TRACKBALL RIGHT TO INCREASE / TRACKBALL LEFT TO DECREASE			
PLAYER COST SCHEDULE			
HOLES GAMETYPE	OPER FEE	ITNET FEE	TOTAL
EXIT (NOTE: VALUES NOT SAVED IF SPECIAL PRICING IS ON)			
3 STROKE/SKINS:	\$0.25	\$0.00	\$0.25
9 STROKE/SKINS:	\$2.00	\$0.00	\$2.00
18 STROKE/SKINS:	\$3.00	\$0.00	\$3.00
9 LEAGUE PLAY:	\$2.25	\$0.75	\$3.00
18 LEAGUE PLAY:	\$3.25	\$0.75	\$4.00
9 TOUR:	\$2.50	\$1.50	\$4.00
18 TOUR:	\$3.50	\$3.50	\$7.00
9 TOUR W/OPPONENT:	\$3.00	\$2.00	\$5.00
18 TOUR W/OPPONENT:	\$4.00	\$4.00	\$8.00
MULLIGANS:	\$0.25	\$0.00	\$0.25
GOLD CARD	\$0.25	\$1.75	\$2.00
HOLE-N-WIN PAR 3'S	\$0.00	\$0.50	\$0.50
HOLE-N-WIN PAR 4'S	\$0.00	\$1.00	\$1.00
DISPLAY IN COINS, HOLD BACKSPIN DOWN			

To change any of the costs move the trackball Up and Down or use the LEFT or RIGHT buttons to move to the option you want to change. Then move the trackball left or right to the desired **OPER FEE** cost of each of those options. (As always, holding down the BACKSPIN button will display all values in coins.)

NOTE:

This function will only change the **OPER FEE**, determining the amount you receive for each game option. Changing the **OPER FEE** automatically changes the **TOTAL** column. The **ITNet® FEE** is a pre-set, unchangeable amount that will be set and adjusted by ITNet® automatically if needed. GTG Gold Cards and Hole-n-win! have pre-set **OPER FEES** and **ITNet® FEES** set by ITNet®.

VOLUME SETTINGS

NOTE:

This menu option is in the **OPERATOR ADJUSTABLES MENU** as well to allow for quick access while you are already customizing your other game settings.

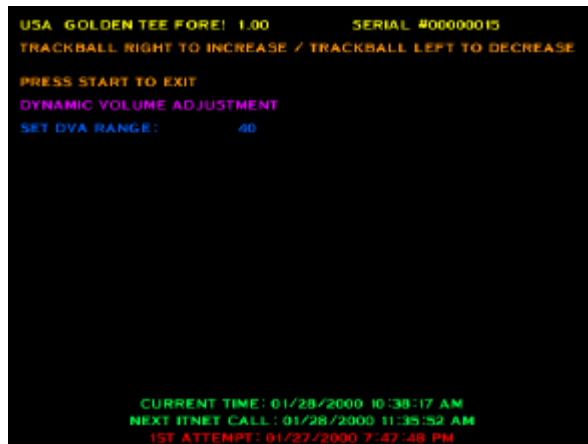
To change the volume, press the START button. When the volume settings screen appears, music will play. Move the trackball to the right to increase the game's sounds and music. Roll the trackball to the left to make the game sounds softer. When you have adjusted the sounds to the appropriate volume, press the START button to exit back to the main menu (This level will default at 40).

Your cabinet also can be equipped with volume increase/decrease push buttons located inside the coin door.

DYNAMIC VOLUME ADJUSTMENT

This new feature was designed for machines in locations with constantly changing noise levels. With the Dynamic Volume Adjustment (DVA) active, the volume level of the Golden Tee® Fore! game automatically adjusts itself based on the amount of ambient noise.

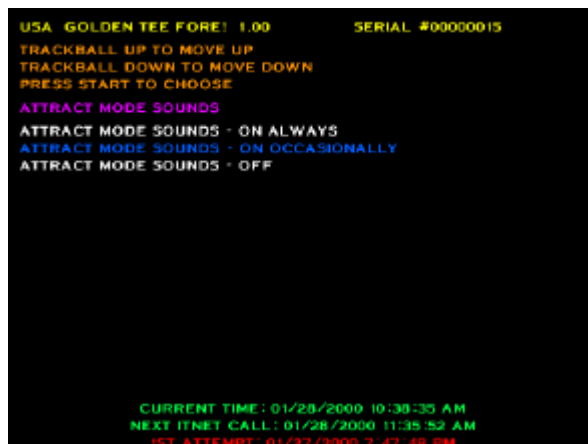
This setting controls the volume range that the DVA will adjust. If you have a location where the overall loudness varies greatly over the course of a day, set this to the maximum (80). If you have a consistent volume in your location, set this to 50-60. If you want the game to be more conservative, set it at 25-30. If you DO NOT want the game to adjust the volume at all (not recommended), set this value to 0.



SET DVA RANGE can be changed by moving the trackball Left or Right until it is set to the desired adjustment number and then pressing the START button. The default is set to 40. If you do not want the game to make use of this feature set the DVA RANGE to 0.

ATTRACT MODE SOUNDS

This menu is used to adjust the sounds that are heard while no one is playing the game.



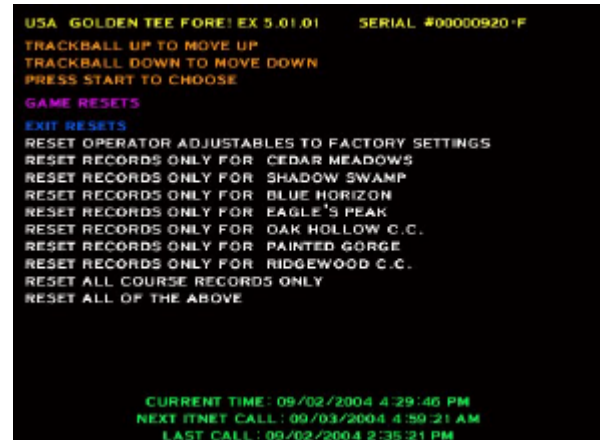
ATTRACT MODE SOUNDS - ON ALWAYS will play sounds during every attract cycle.

ATTRACT MODE SOUNDS - ON OCCASIONALLY plays sounds about every ten to twelve times the attract mode is repeated. This is the default.

ATTRACT MODE SOUNDS - OFF will not allow any sounds to be played during the attract mode.

GAME RESETS

The **GAME RESETS** menu will cancel or zero out any custom features or bookkeeping figures that are no longer wanted.



RESET OPERATOR ADJUSTABLES TO FACTORY SETTINGS will return the game's adjustable settings (volume, skill level, etc.) to factory defaults.

RESET RECORDS ONLY FOR <COURSE NAME> is used to reset the statistics and information like "Longest Drive" for each of the 7 stroke-playable courses (5 if you don't have EXtra) individually. This can also be useful when you or the location wants to run an in-house contest on a specific course.

NOTE:

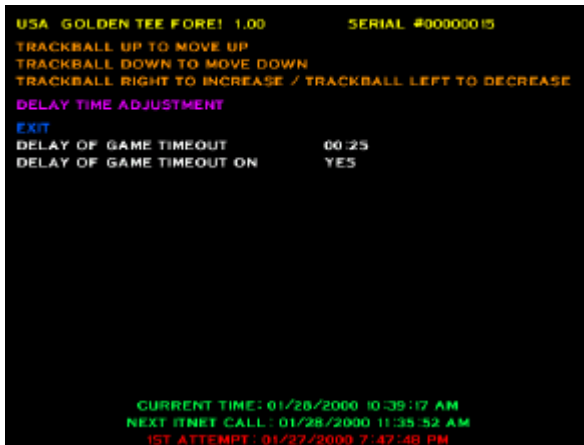
Resetting a course record will clear the online national statistics screen only until the next successful call.

RESET ALL COURSE RECORDS ONLY is used when you want to clear the records for all courses on Golden Tee® Fore!

RESET ALL OF THE ABOVE is used when you want to do a broad reset and bring the game completely back to its original "out-of-the-box" settings for all operator adjustables and course records.

DELAY TIME ADJUSTMENT

This allows for changing the delay of game time. A player's game will terminate if no activity is detected for a set amount of time. Use this setting to adjust this time delay.

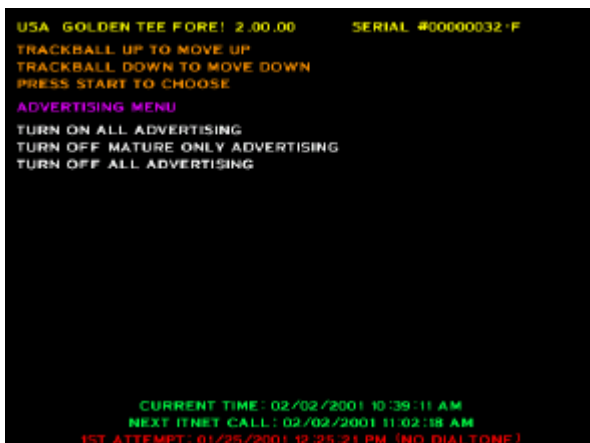


DELAY OF GAME TIMEOUT - The game will give the player a penalty stroke if they have not taken any action after this amount of time. This function can be set from as little as 25 seconds to as high as 2 minutes. The default is set to 00:25 (25 seconds). Note: The first hole will give the player a longer 2-minute timeout.

DELAY OF GAME TIMEOUT ON - The TIMEOUT can be disabled by selecting NO. We recommend leaving this YES so the game will return to the attract mode if a player walks away from a game in progress. The default is set to YES.

ADVERTISING MENU

Golden Tee Fore! may have sponsorships and promotions available to players, designed to bring more rewards and recognition to players and locations. These programs can be turned off if they are unsuitable for your specific location.



TURN ON ALL ADVERTISING is the default setting, and allows all of the promotions to be displayed.

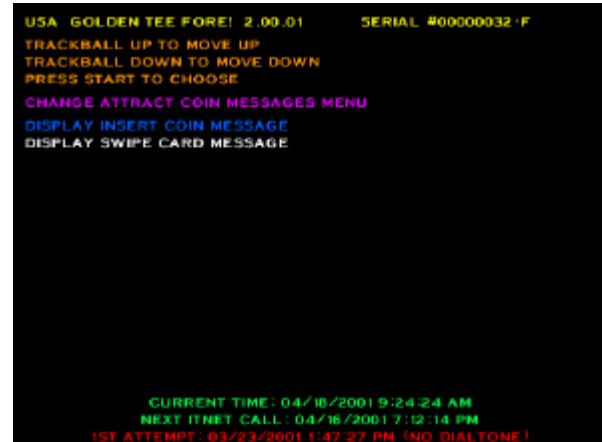
If the machine is in an all-ages location, select **TURN OFF MATURE ONLY ADVERTISING** to disable any promotion that is unsuitable for minors.

Golden Tee® Fore!

TURN OFF ALL ADVERTISING should only be used if your machine is in a location where advertisements and promotions are not allowed.

CHANGE ATTRACT COIN MESSAGES MENU

This menu allows you to turn off coin-related messages displayed in the attract mode.

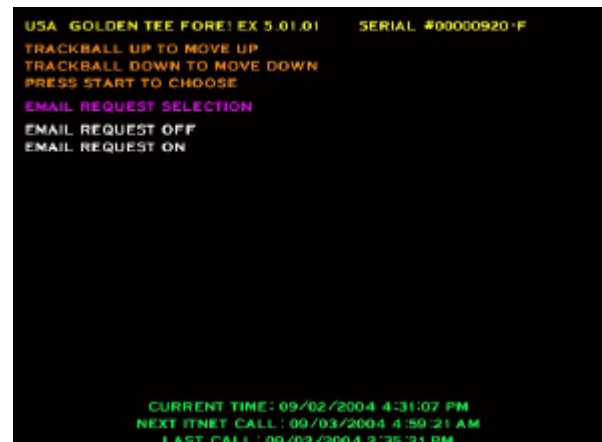


DISPLAY INSERT COIN MESSAGE is the default and leaves the normal "INSERT \$X.XX TO START" message on the screen during the attract mode.

DISPLAY SWIPE CARD MESSAGE can be used for FECs and other establishments that use a swipe card system.

EMAIL REQUEST MENU

Players are asked to enter their email address for future correspondence from IT, ITS, ITNet® and Golden Tee. The request form is displayed at the start of hole 4 on most games. Players can press Start to cancel the request.



EMAIL REQUEST OFF disables this feature.

EMAIL REQUEST ON is the default setting and enables this feature.

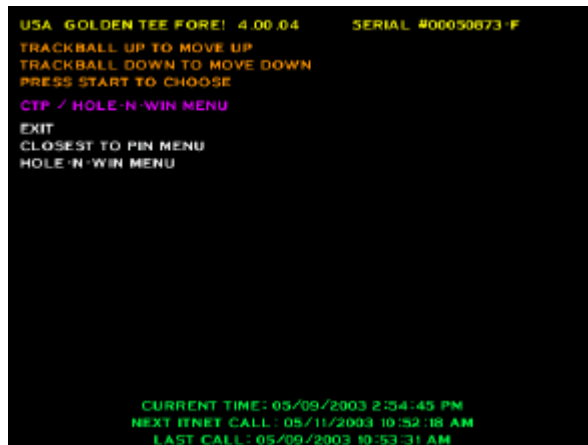
LIVE TOURNAMENTS MENU

Version 3.00.07 or higher added the Live Tournaments Menu. This lets operators allow live tournament/locked condition cards to be used on their machines.

LIVE TOURNAMENTS ON allows the cards to be used while **LIVE TOURNAMENTS OFF** disables the use of those cards on your machine.

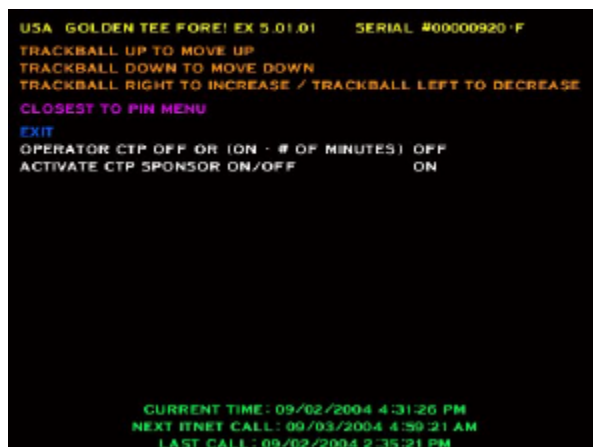
CTP / HOLE-N-WIN MENU

Version 4.00.00 and higher offers two promotional modes, Closest-to-the-Pin and Hole-n-win!



CLOSEST TO PIN MENU takes you to the Closest-to-the-Pin menu and **HOLE-N-WIN MENU** takes you to the Hole-n-win! menu.

CLOSEST TO PIN MENU

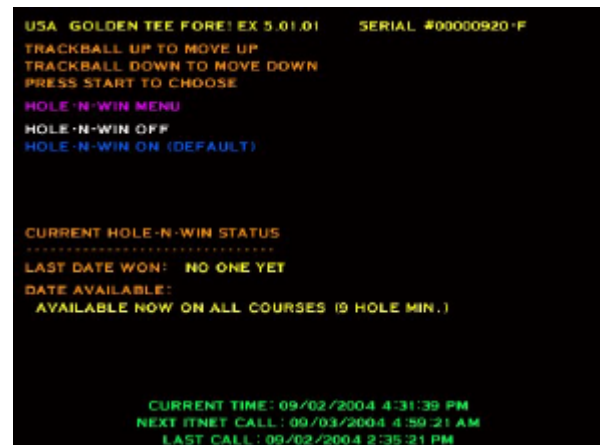


OPERATOR CTP OFF OR (ON - # OF MINUTES) lets the operator turn on CTP mode on his game for a varying set of minutes. By keeping this at OFF instead of a time frame it will keep the game in regular mode. If they choose a set of minutes and exit all the way off then it will prompt the operator with a message saying they are entering CTP mode and then reset the game. Once the time is up that the operator has selected they can choose to have it run for another 15 minutes or let it time out and reset the game putting it back into regular play mode.

ACTIVATE CTP SPONSOR ON/OFF lets the operator enable or disable the ability for selected sponsors to swipe a special card that lets them "rent" the machine from the operator. It puts the game into the special CTP mode but not until they've paid for a selected amount of time. Once their time is up they can let the machine reset back to normal or put more money in to rent the machine for a longer period of time.

HOLE-N-WIN MENU

Version 4.00.00 and higher offers operators the ability to earn additional revenue with the ITNet® online feature Hole-n-win! Players pay an additional amount of money for an opportunity to win money. Part of the player-supported funds is given back to operators on their monthly ITNet® billing statement.



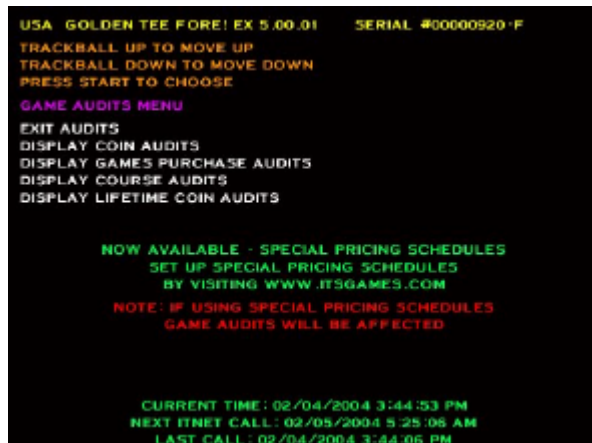
HOLE-N-WIN OFF disables the Hole-n-win! feature. All screens in the attract mode are hidden and the player is never offered a Hole-n-win! opportunity. Use this if you find out your location is ineligible to run Hole-n-win!

HOLE-N-WIN ON (DEFAULT) enables the Hole-n-win! feature on your machine. This is the default all games are set to and has all screens in the attract mode visible to all players. This then gives players, in the game, an opportunity to win money.

The Hole-n-win! Status shows the last date that someone won a Hole-n-win! on that specific machine. It will then show you the date that Hole-n-win! becomes re-available on that machine or if it is currently available already what courses qualify for Hole-n-win!

GAME AUDITS

The **GAME AUDITS MENU** will supply you with a detailed accounting of helpful and informative bookkeeping and statistics.



As always, any screens involving dollars in this menu can be displayed in coins by holding down the BACKSPIN button.



DISPLAY COIN AUDITS is when you choose to review the coin audits for the game. This gives you information including how many coins are available, how many coins went through each coin door, and how many coins were used as buy-ins during the course of a game. It will also display Hole-n-win! and Closest-To-The-Pin coins on Version 4.00.00 and higher.



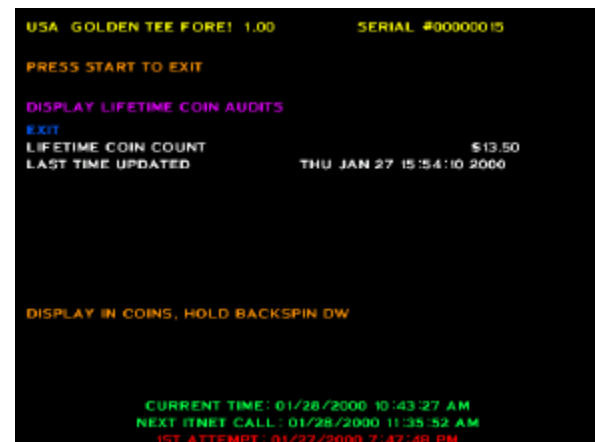
DISPLAY GAME PURCHASE AUDITS is designed to help in bookkeeping purposes. This screen has a similar format to the Player Cost Schedule, displaying the game types that were selected by players. Note that league events are displayed in code versions 2.01.06 and higher.

NOTE: There is no extra cost for League Plays with Online Opponents, so that count is added directly into League Play.



DISPLAY COURSE AUDITS is a breakdown of how many games were played on each course. Note that 18 hole, Front 9 and Back 9 games are displayed with code version 2.01.06 and higher.

For version 4.00.00 and higher, Total Hole-n-win! Attempts are included on this screen.

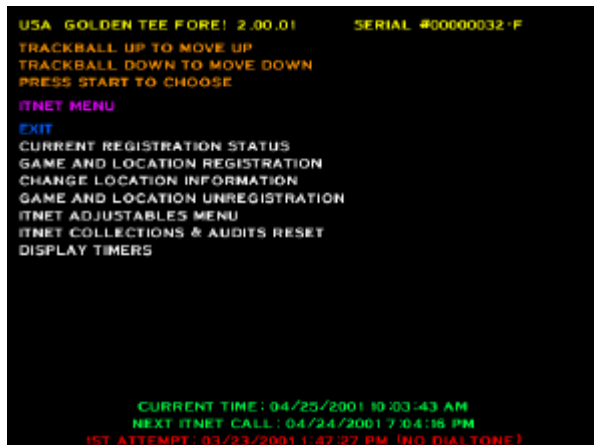


DISPLAY LIFETIME COIN AUDITS displays the total amount of money put in the machine since the last hard drive update.

NOTE: The only time the LIFETIME COIN AUDITS screen will be reset is when the game is unregistered/registered or a new hard drive is installed.

ITNet® MENU

This menu is designed for the operator to interface with ITNet® at the game itself. Instant registration, quick location information changes, and changing dialing functions are available from this menu.

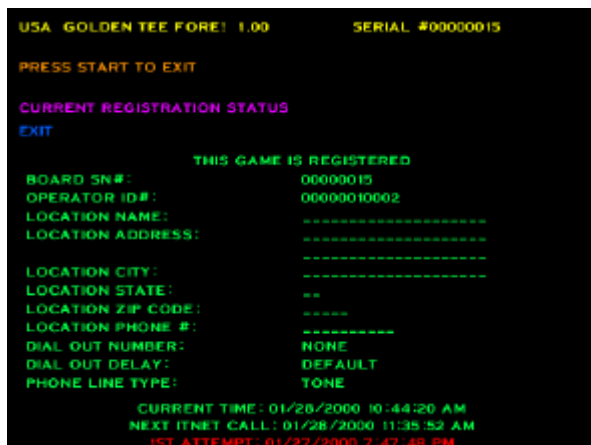


NOTE:

For GAME AND LOCATION REGISTRATION, CHANGE LOCATION INFORMATION, and GAME AND LOCATION UNREGISTRATION it is recommended that you make sure the machine is correctly plugged into a phone line, as a successful ITNet® call must be made for these menus to take effect.

CURRENT REGISTRATION STATUS displays the ITNet® information the machine is currently operating under. This will display the most current entered information, including the board serial number, your operator ID number, the location name, address, and phone number, and the modem dialing instructions.

This screen displays the current ITNet® registration status. If the game has been successfully registered, the messages will read: "This machine is registered." If the game has never been registered, or if the registration failed, the message will read: "This machine is not registered."



NOTE:

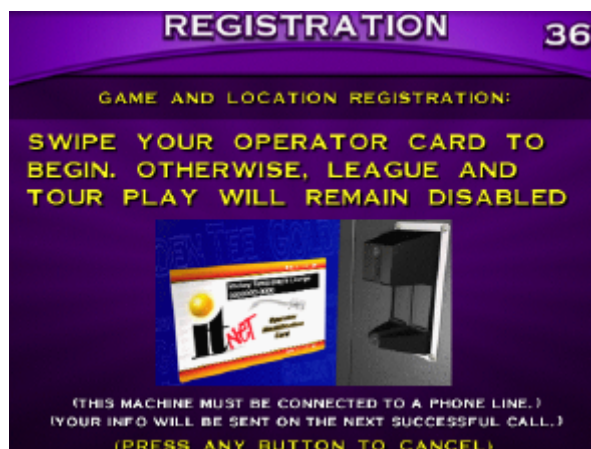
The new Golden Tee® Fore PCB has its own ID number. This important number can be found on the new PCB or at the top of the screen in test mode.

Use your Operator ID card to register your game to your ITNet® account. If you do not have your cards, please call us at 847-870-7027 to order them. You can register your game in the mean time by faxing the completed Game Registration Form found in the ITNet® Procedures Manual to IT for processing.

If you are updating location data on a registered machine, this screen will show the updated information after a successful call to ITNet®. Note: If the machine is turned off before a call has been made, you will lose the new information until a successful call has been completed.

If you choose to register your machine via the initialization form, send or fax it to Incredible Technologies. ITNet® will try to process your paperwork within 3 to 5 business days. Make sure your machine makes a successful call to ITNet® then the correct information will appear on this screen.

GAME AND LOCATION REGISTRATION is used to tie the game to the operator and its physical location. This is necessary for access to league and tournament play. This menu takes the place of the ITNet® Registration Form. However you will still need to set up a debit account and sign an operator agreement, if you are not already a registered operator with ITS/ITNet. This menu is automatically displayed any time an unregistered machine is turned on. The menu will time out, or can be bypassed by pressing any button.



NOTE:

Make sure you have your machine plugged into a phone line and your operator card ready. You will need to enter data into each field unless instructions state otherwise. Please abbreviate where necessary and read your information first before pressing YES on the field verification screens. Pressing the FLY-BY button will cancel this process on any screen.

INSTRUCTIONS FOR REGISTERING YOUR MACHINE VIA ITNet®:

1. Highlight GAME AND LOCATION REGISTRATION and press the START button.
2. Insert your Operator ID Card into the card reader.
3. Once you have read the introduction screen press the START button to continue.
4. Enter the LOCATION NAME (Up to 20 characters long)
5. Enter the LOCATION CITY (Up to 20 characters long)
6. Enter the LOCATION STATE (Initials Only)
7. Enter the LOCATION ZIP CODE (5 digits)
8. Enter the LOCATION STREET ADDRESS (Up to 40 characters long)
9. Enter the LOCATION PHONE NUMBER (incl. Area Code) of the phone line the machine is plugged into (10 digits). **It is VERY IMPORTANT that this phone number is correct.**
10. Do you need to dial a number for an outside line? If YES go to #11, if NO go to #12.
11. Enter the NUMBER TO DIAL FOR AN OUTSIDE LINE (Leave blank for nothing)
12. Do you need a delay to wait for an outside line? If YES go to #13, if NO go to #14.
13. Enter the NUMBER OF SECONDS TO WAIT FOR OUTSIDE LINE (Can leave blank if no delay is needed. The default is 2.)
14. Is your phone line a rotary/pulse (old style) line? If YES, go to #15. If NO go to VERIFICATION SCREEN section.
15. Press the START button on YES for YOU HAVE CHOSEN ROTARY.

VERIFICATION SCREEN:

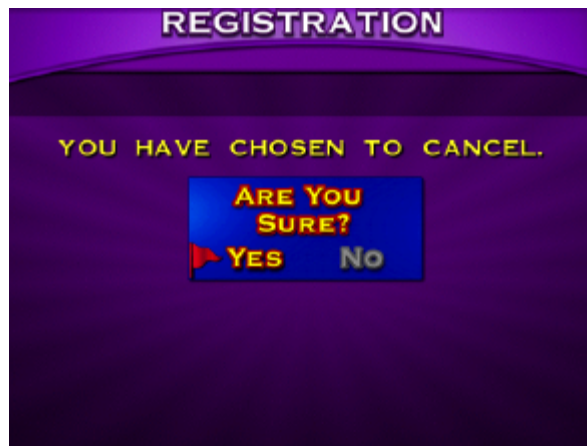
At this point you will come to a screen that shows the information you entered and asks you to verify it. If anything is incorrect, this is your chance to go back and correct it. If everything is correct press the START button. This screen then tells you that you have completed entering in all the information and that the data must be transferred to ITNet® in order to be successfully registered. Make sure the machine is plugged into a phone line.

CONTINUING ON WITH THE REGISTRATION PROCESS:

If you want to proceed with the registration process press the START button to exit. The game will then proceed to make a call to ITNET®. If the call fails your data will be saved and it will continue to try and send the data on the next call until it is successful. If your information did not go through the first time and you later get a successful call, you can check the registration status of your machine by going to the menu selection **CURRENT REGISTRATION STATUS**. If the call is successful for the first time, a registration confirmation screen appears, confirming that the machine is now registered to ITNET®. If the call is successful but there is a problem, a failure message is displayed. You may need to contact Incredible Technologies' Service Department. (For failed calls, see the Frequently Asked Questions Section.)

CANCELING THE REGISTRATION PROCESS:

If you do not wish to register, you can press the FLY-BY button to cancel. Any data you entered will be saved and will reappear (until you power the game off) if you later choose to register or change your information. Your game will not have access to League or Tournament Play until you have registered your machine.



CHANGE LOCATION INFORMATION is for when you have changed the physical location of the machine. The difference between this menu selection and the **GAME AND LOCATION REGISTRATION** is that you do not need to insert your Operator ID Card and you won't need to re-enter all the information on each field that is already correct.

NOTE:

This function will only work if you have already registered that machine. If you have not, you will get an invalid option screen.

INSTRUCTIONS FOR CHANGING LOCATION INFORMATION:

1. Highlight CHANGE LOCATION INFORMATION and press the START button.
2. Once you have read the introduction screen press the START button to continue.
3. Verify the information on each field as it appears on the screen.
4. If the information is correct then move the trackball down to DONE and press the START button. If the information is incorrect, use the backspace (<-) arrow to delete the incorrect information and re-enter the new information.
5. When the process is complete you will get to a verification screen and then press the START button to complete the process. The game will then attempt a call to ITNet® and the information will change as soon as a successful call to ITNet® has been made.

As always, if you do not want to change your location information you can press FLY-BY to cancel at any time. All information will then be left as it was when you last registered the machine.

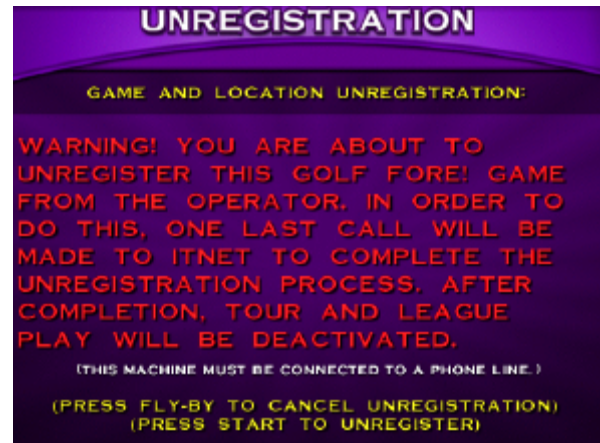
GAME AND LOCATION UNREGISTRATION is used when you want to communicate that you are no longer responsible for the machine. After a verification screen and then a final phone call to ITNET®, your game will be unassigned to you and the location. League and Tournament play will be disabled as well. If you do not unregister successfully, you will still be held responsible for the game, and any subsequent ITNet® billing.

NOTE:

These last two functions will only work on a machine that has already been registered with ITNET®. If accessed on a game that is not properly registered, an Invalid Option screen will be displayed. Unregistering your machine will deactivate league and tournament play and one final, successful call will be required to ITNet® in order for unregistration to be complete.

INSTRUCTIONS FOR GAME AND LOCATION UNREGISTRATION:

Highlight **GAME AND LOCATION UNREGISTRATION** and press the START button.



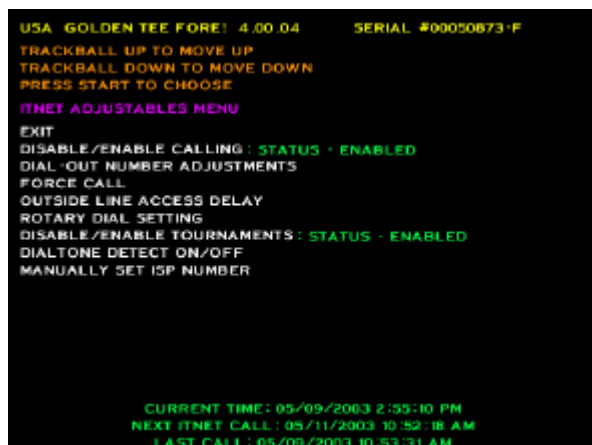
1. Read the warning screen carefully and follow any instructions. As always you can press the FLY-BY button to cancel this procedure and go back to the ITNet® menu.
2. If you proceed you will get a verification screen asking you if you are sure you want to unregister.
3. If you select NO, it will take you back to the ITNet® menu. If you choose YES, a call will be made to ITNet.

If the call is successful you will get a verification saying: Your unregister request has been received and processed by ITNet. If the call is not successful you will get a failure message and the data will be processed on the next successful call.

If you ever wish to run league/tournaments again you will need to re-register your machine by going to the **GAME AND LOCATION REGISTRATION** menu.

ITNet® ADJUSTABLES MENU

This menu is where you can disable or enable calling, change how your machine dials ITNET®, or to force a call to ITNet.

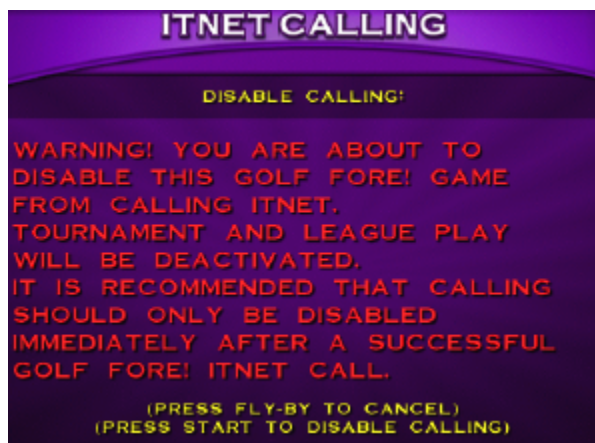


DISABLE/ENABLE CALLING: STATUS – DISABLED (or **ENABLED**) is used when you temporarily want to disable ITNet® on a certain machine (i.e. to get the phone line fixed), or when you want to re-enable a temporarily disabled machine back on ITNet® calling. This does not take the place of UNREGISTRATION and you will still be responsible for that machine with ITNet. It is recommended that you only disable after the machine has made a successful call to ITNet.

NOTE:

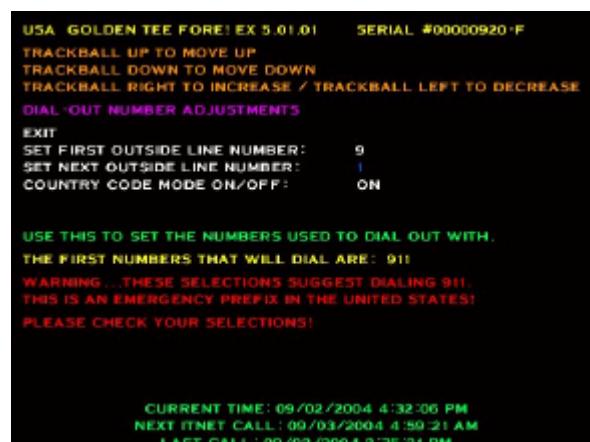
Disabling calling will deactivate your machine from the League and Tournament play functions.

To disable ITNet® on your machine highlight the menu selection **DISABLE/ENABLE CALLING: STATUS - ENABLED** and then press the START button. A Verification Screen is displayed. Press the START button to disable calling and continue. Press the FLY-BY button to cancel and return to the **ITNET ADJUSTABLES MENU**.



If you are re-enabling your machine, when the menu shows **DISABLE/ENABLE CALLING: STATUS - DISABLED** pressing the START button displays a message to make sure the machine is plugged into the phone line. Pressing START then brings you to the verification box with a YES/NO choice. Selecting NO

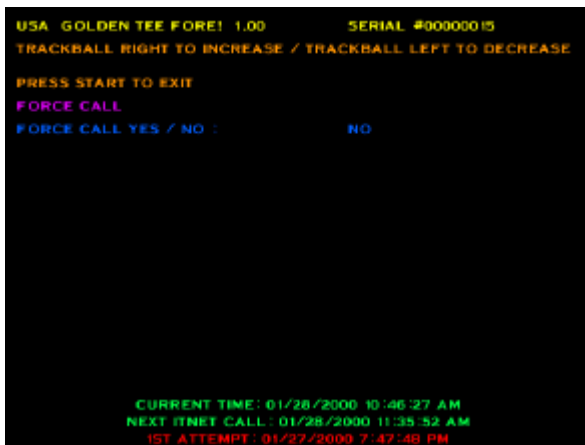
brings you back to the ITNet® menu. Selecting YES will cause the machine to automatically attempt to call ITNet. ITNet® will not be enabled and you will not be able to run League or Tournament Play until a successful call has been made.



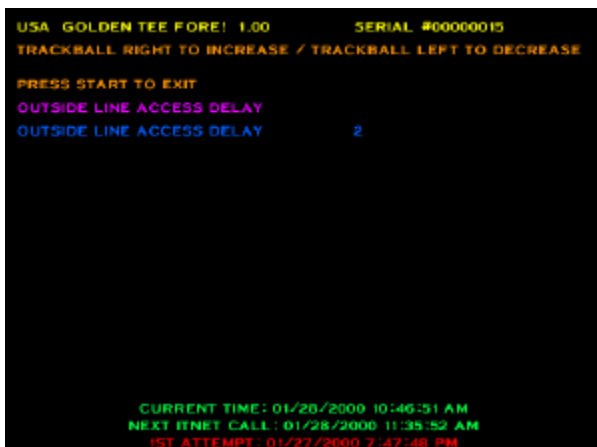
DIAL OUT NUMBER ADJUSTMENT is used when you need to change the number your machine uses to get an outside line. Use **SET FIRST OUTSIDE LINE NUMBER** if your phone system needs to dial a specific number to get a dial tone. You have the options of 0 through 9 and NOTHING (which means you do not require a prefix). Use **SET SECOND OUTSIDE LINE NUMBER ONLY** if your phone system needs to dial a two-digit prefix, such as 99, to get a dial tone. In most cases, this should be set to NOTHING.

If you have to dial an area code prefix, like "1" before the area code, be sure to set **COUNTRY CODE MODE** to **ON**.

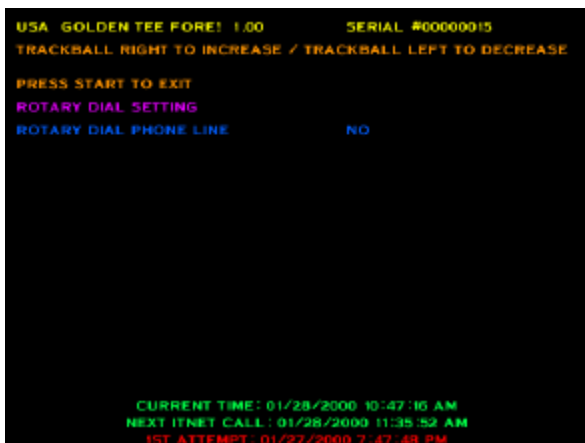
WARNING: These selections suggest dialing 911. This is an emergency prefix in the United States. Please check your selections.



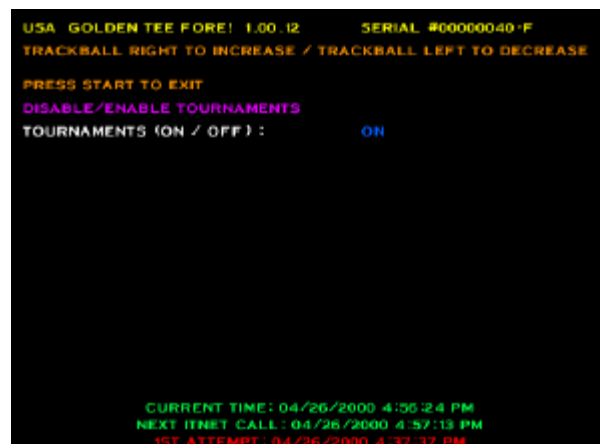
FORCE CALL menu can be used to make your machine manually call ITNet® at a time other than its regularly scheduled hour. This can be used when you are trying to fix the modem or phone line on your machine, or if you are about to disable calling and want the last set of information to be transmitted to the ITNet® servers. This setting defaults to NO. If you select YES, as soon as you exit **MAIN MENU** the machine will automatically attempt to call ITNet.



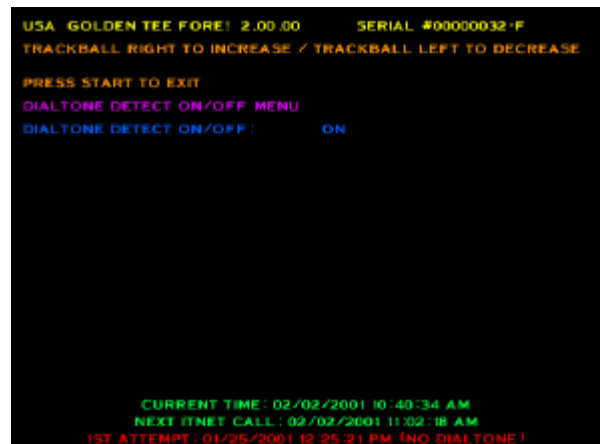
OUTSIDE LINE ACCESS DELAY is designed to help ensure calls get made successfully to ITNet. The number you set here is the pause it uses to wait for the outside line. This is normally only required when you use a number to dial out with first, but won't hurt the machine if you leave the default set to 2.



ROTARY DIAL PHONE LINE is another ITNet/phone related menu functions you can access on this menu. While most phones use tone dialing, some still use rotary or pulse to dial. Accidentally setting this feature to YES on a tone line should not effect the call to ITNet.



DISABLE/ENABLE TOURNAMENTS You can disable ITS® online tournament play from this setting. To disable ITS® tournament play, select YES. To enable ITS® tournament play, select NO. This setting will affect online ITS® tournament play only. League Play and all other ITNet® features will still be available.



DIALTONE DETECT allows you to tell your machine whether or not to detect a dial tone when making an outside call. When set to ON, the machine's modem will wait to detect a dial tone before dialing. When set to OFF, the machine will not wait for a dial tone before dialing. For US machines, the default setting is ON and in most cases should not be changed.

NOTE:

If Dialtone Detect is set to OFF and there is a phone line connection problem, you will NOT see the "No Dialtone Detected" error message.

ITNet® COLLECTIONS & AUDITS RESET

NOTE:

This menu option was put in the ITNet® MENU to allow for quick access while you are already customizing your other ITNet® settings.

Use this screen to assist in bookkeeping when doing collections from your cabinet. This will show you the amount of money owed to ITNet® as well as your portion currently in the cabinet. Holding down the BACKSPIN button on this screen will convert all values shown as dollars into coins.

```
USA GOLDEN TEE FORE! 4.00.04 SERIAL #00050873-F
TRACKBALL UP TO MOVE UP
TRACKBALL DOWN TO MOVE DOWN
PRESS START TO CHOOSE
ITNET COLLECTIONS & AUDITS RESET
EXIT
DISPLAY AUDITS
DO COLLECTION, CLEAR VALUES, RESET AUDITS
RESET SOFTWARE UPDATE FEES
-----
LAST COLLECTION: FRI MAY 09 14:53:59 2003
TOTALS SINCE LAST COLLECTION: $0.25
ITNET ONLINE FEES: $0.00
SOFTWARE UPDATE FEES: $0.00
OPERATOR RUN LEAGUE FEES: $0.00
OPERATOR/LOCATION PORTION: $0.25
ALL COLLECTIONS COLLECTED
ALL GAME AUDITS CLEARED

CURRENT TIME: 05/09/2003 2:54:04 PM
NEXT ITNET CALL: 05/11/2003 10:52:18 AM
LAST CALL: 05/09/2003 10:53:31 AM
```

EXIT is used when you just want to see the current amount of money in the machine but a collection is not being made and you do not want to clear the values.

DISPLAY AUDITS will take you to the game audits menu. This can be useful when trying to do bookkeeping right at the cabinet or for seeing why ITNet® portion is a certain amount.

DO COLLECTION, CLEAR VALUES, RESET AUDITS is used to erase all of the collection counts stored in memory and reset the game audits. Pressing the START button here will take you to a verification screen asking if you are sure. If you say NO, it will take you back to the collections screen leaving all counts intact. If you say YES, it will complete the collection and take you back to the collections screen. You will notice all dollar amounts are now zero and two messages stating the collections were cleared and the audits reset will show up at the bottom in red.

RESET SOFTWARE UPDATE FEES lets you clear the Software Update Fee amount displayed on this menu. Software Update Fees can be used to present to the location if they are helping to share in the cost of the annual updates.

TOTALS SINCE LAST COLLECTION displays the total number of dollars in the machine since the audits were last reset.

ITNET ONLINE FEES displays the amount of money owed to ITNet. Separate this amount from your collection before you make your split, if any, with the location. Deposit this amount into your debit account on a timely basis to ensure proper funds.

SOFTWARE UPDATE FEES displays the amount of money you can charge your location to help pay for your updates (for updates ordered using the monthly Payment Plan only). This amount is for the operator's benefit only and will not appear on the ITNet® statement.

OPERATOR RUN LEAGUE FEES displays the amount of money paid by players as part of their "dues" for participating in your operator-run leagues.

OPERATOR/LOCATION PORTION displays the amount of money in the machine, minus the ITNet® portion. This is the amount of your collection that you may split with your location.

NOTE:

In order to make bookkeeping easier, all audits but the lifetime coin count will reset with each collection, making everything more synchronized.

ITNet® & ITS® TIMERS

This is the menu you arrive at when selecting DISPLAY TIMERS off the ITNET ADJUSTABLES MENU. Use this menu to determine verify various time and status settings for your machine.

```
USA GOLDEN TEE FORE! 1.00 SERIAL #00000015
PRESS START TO EXIT
ITNET AND ITS TIMERS
EXIT

CURRENT ITNET TIME (GMT): 01/28/2000 4:47:40 PM
CURRENT LOCAL TIME: 01/28/2000 10:47:40 AM
REGULAR CALL IN TIME: THE HOUR OF 3 AM
NEXT ITNET CALL: 01/28/2000 11:35:32 AM
1ST ATTEMPT: 01/27/2000 7:47:48 PM
NUMBER OF RETRIES: 31

TOURNAMENT START: NOT ACTIVE
TOURNAMENT END: NOT ACTIVE
TOUR. SPECIAL START: NOT ACTIVE
TOUR. SPECIAL END: NOT ACTIVE
LEAGUE SPEC. START: NOT ACTIVE
LEAGUE SPEC. END: NOT ACTIVE
OPER. CONTEST START: NOT ACTIVE
OPER. CONTEST END: NOT ACTIVE
```

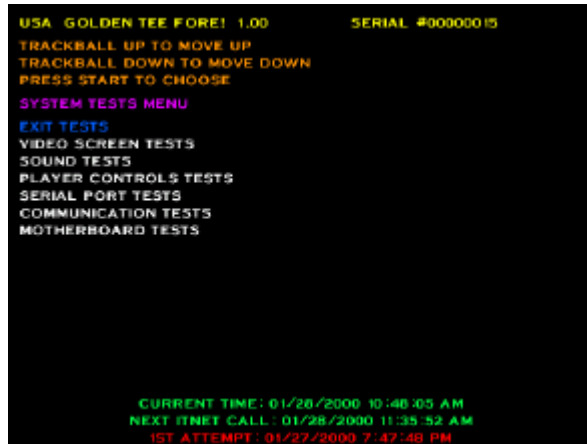
CURRENT ITNET TIME is set to Greenwich Mean Time. **CURRENT LOCAL TIME** should display the current time in your time zone.

REGULAR CALL IN TIME is the time that your machine usually calls in to ITNet. **NEXT ITNET CALL** shows when your machine will try to call next. **1ST ATTEMPT** and **NUMBER OF RETRIES** displays helpful status information if the machine is making unsuccessful calls.

The remaining information displays status for special events such as tournaments and operator-run contests that are available on this machine. Active means the event is running and available. Not Active means it is not set up, or has been disabled on the machine.

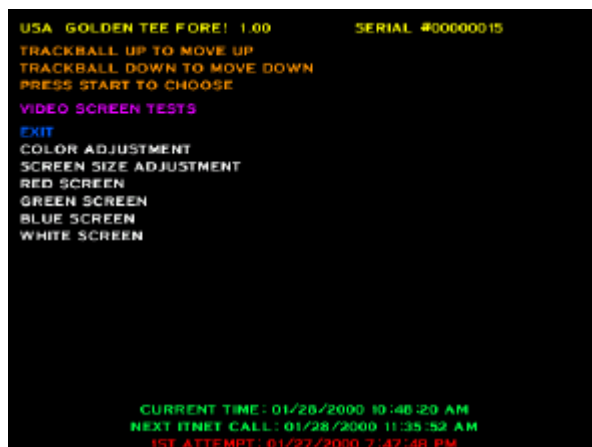
SYSTEM TESTS MENU

Golden Tee® Fore! has been inspected and tested at the factory and should arrive to you in perfect working order. If you are experiencing any problems with the game, the **SYSTEM TESTS MENU** is a good place to start when tracking down the problem.



VIDEO SCREEN TESTS

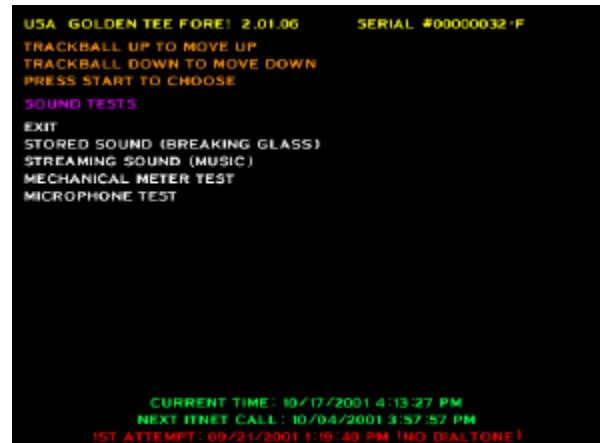
You can test your monitor and adjust colors or sizes by choosing **VIDEO SCREEN TESTS** and pressing the START button on the desired test.



These tests can be exited at any time by pressing the START button. From there move the trackball up and down or press the LEFT and RIGHT buttons to get to the next test you want to do. The screens are a grid of colored rectangles, a set of squares to test sizes, and then red, green, blue and white to test the condition of the monitor's components. Use these colors and grids to adjust your monitor so they look as good as possible.

SOUND TESTS

Choose **SOUND TEST** from the **SYSTEMS TESTS MENU** to test the sounds and speakers in the game. The section also tests the coin meter and microphone.



Test sounds include the **STORED SOUND (BREAKING GLASS)** as well as the **STREAMING SOUND (MUSIC)**. These will help test that your sound is working properly.

To test the coin meter, select **MECHANICAL METER TEST** from this menu. If everything is working properly, the meter should increment each time the START button is pressed while this line is highlighted.

The **MICROPHONE TEST** will determine the dynamic volume of the area around the cabinet. In order to get the correct reading for all other sound tests, the **MICROPHONE TEST** should be run first.

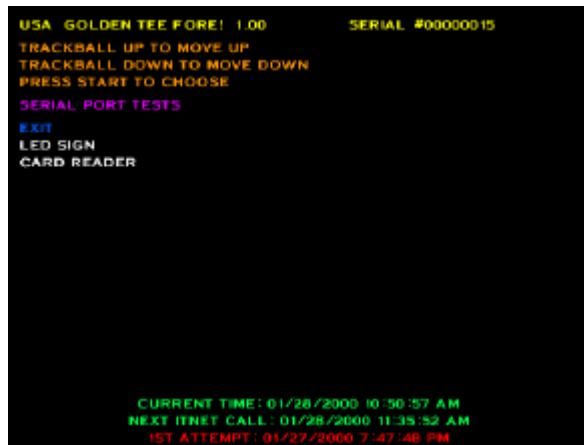
PLAYER CONTROLS TESTS

When **PLAYER CONTROLS TESTS** is selected, the screen will display a diagram of the Golden Tee® Fore! control panel. The controls are highlighted on the diagram when the controls are active. Test all of the controls, including test and service switches. Press the LEFT, RIGHT, and START buttons together to exit this test.



SERIAL PORT TESTS

These two tests check the basic functions of the LED Sign and the Card Reader, two of the primary elements found on all Tournament cabinets (as well as the card reader for League Play).

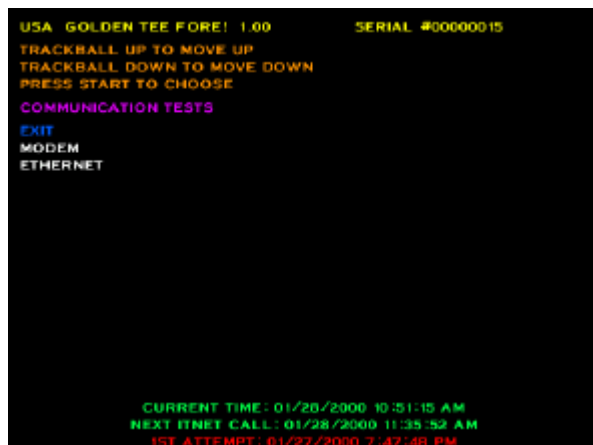


LED SIGN tests the integrity of the connection from the game to the LED sign and LED hardware. Press the START button to activate the sign test. The video screen will display the communication status. The LED sign will display the code version number, followed by a string of letters and numbers, then a solid bar will scroll across the display. Use this test to visually check for non-functioning LED segments. If the status is bad, contact your distributor or the IT service department. Press the START button to exit out of this test.

CARD READER tests the card reader hardware. After pressing the START button, you will see the message "NO DATA DETECTED YET". Insert a card into the card reader. Normally the message "A CARD SWIPE HAS BEEN DETECTED." is displayed, as well as the recognized card type. If you do not get the "A CARD SWIPE HAS BEEN DETECTED" message try inserting a card at different speeds or use a different card. If still unsuccessful, contact your distributor or the IT service department.

COMMUNICATION TESTS

This menu is designed to help test the ways the board can communicate with ITNet.

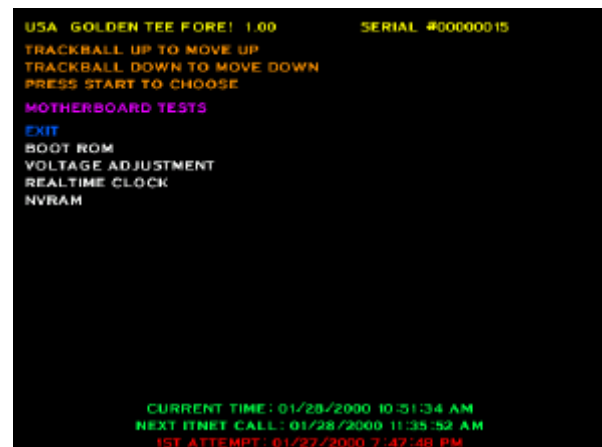


MODEM tests the existence of the modem as well as its ability to respond. Each machine needs its own working modem, even if daisy chained. Pressing the START button when MODEM is selected will activate the test and a pass or fail message will appear. If the modem test fails, contact your distributor or the IT Service Department.

ETHERNET tests for existence and response of your Ethernet controller. This feature is not currently being utilized by ITNet.

MOTHERBOARD TESTS

This menu is to help test some of the basic hardware located in the Golden Tee® Fore! machine.



BOOT ROM tests the memory your game boots from. To activate this test press the START button. You will get one of two messages: "BOOT ROM CHECKSUM IS CORRECT" or "BOOT ROM CHECKSUM IS INCORRECT". If you get the failure message please contact your local distributor or the IT Service Department.

VOLTAGE ADJUSTMENT tests the voltage levels of the game's power supply. This test reveals one of four messages the instant the menu selection is highlighted. "VOLTAGE IS WITHIN ACCEPTABLE RANGE" means that everything is working properly. "VOLTAGE IS HIGH" or "VOLTAGE IS LOW" means you have to adjust the voltage until you get the ACCEPTABLE RANGE message. "VOLTAGE DETECTION FAILURE" means there is a hardware failure with the voltage detect circuitry and you should contact your local distributor or the IT Service Department.

REALTIME CLOCK is used to display the board's clock in current local time. Pressing the START button will display the current local time and date. If the time is incorrect it can be adjusted by making a call to ITNet.

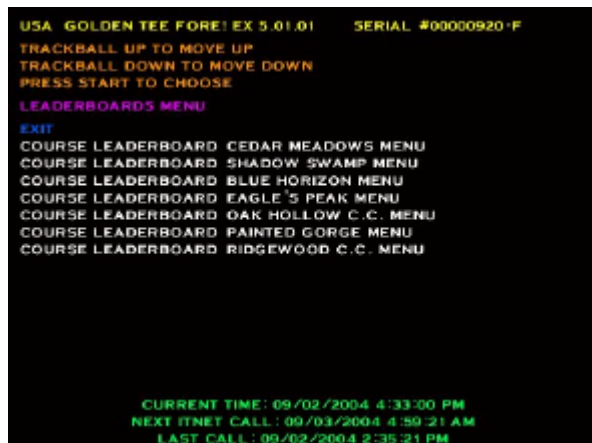
NVRAM tests the non-volatile RAM, or memory, on the game's board. Pressing the START button will activate this test. You will get one of two messages: NVRAM CHECKSUM SUCCEEDED or NVRAM CHECKSUM FAILED. As with all other tests if you get the failure message contact your local distributor or the IT Service department.

LEADERBOARDS MENU

This new feature lets operators display and reset the stroke leaderboards for each course.

Select which course leaderboard you wish to work with and then hit the start button to go to the next menu.

Note: The courses are labeled by course name corresponding to the way they view on the course selection screen from left to right (top to bottom if you have EXtra).

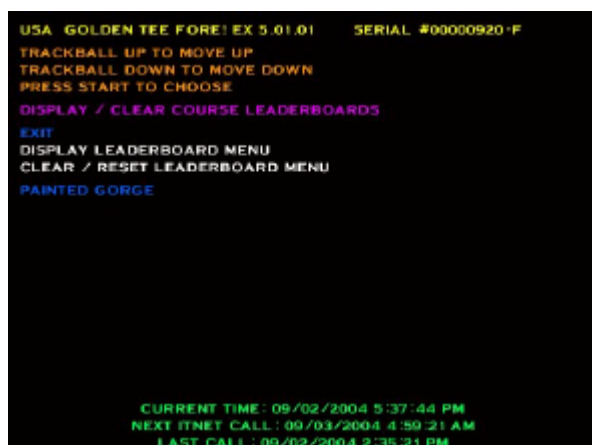


EXIT takes you back to the MAIN MENU.

COURSE LEADERBOARD <COURSE NAME> MENU

lets you select for which course you want to view the leaderboard.

DISPLAY / CLEAR COURSE LEADERBOARDS



EXIT takes you back to the main LEADERBOARDS MENU.

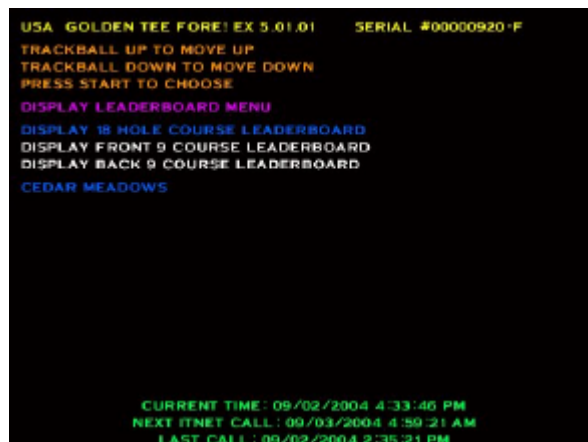
DISPLAY LEADERBOARD lets you display the top 20 scores for that specific course including Name (initials), score, longest drive, and great shot points.

CLEAR/RESET LEADERBOARDS lets you clear the leaderboard for that specific course. The leaderboard will then be cleared in both the attract mode and in the game for stroke play. A message will flash saying the leaderboard has been cleared for that course

NOTE: This feature clears the leaderboards for courses available in Stroke Play only. The courses available in League Play ONLY do not have these leaderboards.

DISPLAY LEADERBOARD MENU

This menu lets you select which leaderboard you wish to see based on the 18 hole, front 9, and back 9 versions of that course.



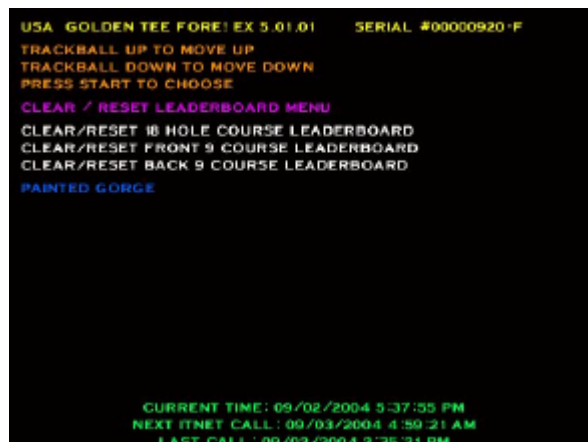
Here is what the leaderboard looks like:

NAME	SCORE	LONGESTDRIVE	GREATSHOT PTS.
1. GUS	-5	327 YDS.	0
2.	0 YDS.	0	0
3.	0 YDS.	0	0
4.	0 YDS.	0	0
5.	0 YDS.	0	0
6.	0 YDS.	0	0
7.	0 YDS.	0	0
8.	0 YDS.	0	0
9.	0 YDS.	0	0
10.	0 YDS.	0	0
11.	0 YDS.	0	0
12.	0 YDS.	0	0
13.	0 YDS.	0	0
14.	0 YDS.	0	0
15.	0 YDS.	0	0
16.	0 YDS.	0	0
17.	0 YDS.	0	0
18.	0 YDS.	0	0
19.	0 YDS.	0	0
20.	0 YDS.	0	0

PRESS START TO EXIT

CLEAR/RESET LEADERBOARD MENU

This menu lets you select which leaderboard you wish to clear based on the 18 hole, front 9, and back 9 versions of that course.





INCREDIBLE TECHNOLOGIES, INC.
3333 N. KENNICOTT AVE. ARLINGTON HEIGHTS, IL 60004
(847) 870-7027 (847) 870-0120 FAX
WWW.ITSGAMES.COM
THE LEADER IN ONLINE PLAY!



ITNet® DEBIT ACCOUNT FORM

You **MUST** have this form on file at Incredible Technologies, Inc.
or your games will not be activated for online play.

After processing of the ITNet® forms, a personalized Operator Identification Card will be mailed to you. The Operator Identification Card allows you to immediately register your games on-site.

Billing Information for Automatic Debit Payments

Authorization Agreement for Pre-authorized Payments For participation in ITNet® and the International Tournament System (ITS).

I (we) authorize Incredible Technologies, Inc., hereafter called COMPANY, to initiate debit entries to my (our) bank account indicated below. I (we) authorize the financial institution named below, hereafter called INSTITUTION, to credit the amount of such entries to my (our) account to correct any errors, and the institution to deposit any such corrections to my (our) account. I have attached an unsigned and voided check for the account I wish to be debited from time to time and in varying amounts.

Please Print Clearly and Legibly to Insure Accuracy.

Company Name

Address

City, State, Zip

Company Contact

() _____

Phone Number

Fax Number

☐ Checking Account

☐ Savings Account

Bank Account Number

Bank Routing Number (VERY IMPORTANT)

Bank Name

() _____

Bank Phone Number

To assist in verifying data, attach an unsigned voided blank check from your account.

The authority is to remain in full force and effect until I (we) revoke the agreement in writing as hereafter provided. Any revocation is effective only after COMPANY has received written notice from me (us) to terminate this agreement in such time and manner to afford a reasonable opportunity to act upon the notice. I (we) have the right to stop payment of a debit entry by notification to the institution in such time and manner to afford a reasonable opportunity to act prior to charging the account. A copy of this authorization will be provided at your request.

Email Addresses

Incredible Technologies® can alert you to a variety of information through email. Please fill in the name and email address of the parties responsible for the following areas:

Main _____

Main Contact Name

Main Contact Email Address

Billing _____

Billing Contact Name

Billing Contact Email Address

Technical _____

Technical Contact Name

Technical Contact Email Address

Promotions _____

Promotions Contact Name

Promotions Contact Email Address

Authorized Signature _____

Date _____

Signature MUST accompany this form.

Fill out this form completely and mail or fax to:

Incredible Technologies, Inc.
3333 N. Kennicott Ave. Arlington Heights, IL 60004
(847) 870-7027 Phone (847) 870-0120 Fax

Allow 3 to 5 Business Days for Processing.



rev 03/04



INCREDIBLE TECHNOLOGIES, INC.
3333 N. KENNICOTT AVE. ARLINGTON HEIGHTS, IL 60004
(847) 870-7027 (847) 870-0120 FAX
WWW.ITSGAMES.COM
THE LEADER IN ONLINE PLAY!



ITNet® OPERATOR AGREEMENT

This Agreement is entered into this _____ day of _____, 20____, between
Incredible Technologies, Inc. (IT) of 3333 N. Kennicott Ave., Arlington Heights, IL 60004, and
_____(OPERATOR),
_____(company name)

_____(address)

For and in consideration of the mutual promises contained herein and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows.

1. APPLICATION

This Agreement shall apply to operation of ITNet™ compatible products (ITGAMES) and is valid for a period of one year from the date written above, and will automatically renew for successive one year periods unless revoked in writing not less than 60 days prior to the renewal date.

2. IT OBLIGATIONS

IT agrees to do the following:

- A. Administer the ITS® and run tournaments to the best of their ability throughout the year, and include OPERATOR ITGAMES in such tournaments providing OPERATOR has complied with all ITS® rules and regulations and this Agreement;
- B. Be responsible for payment and distribution of all tournament prizes;
- C. Administer and support player's online statistics in the form of reports and leaderboards;
- D. Fax or mail billing statements to OPERATORS at least 4 business days prior to the date of automatic debiting of amounts owed to IT for online entry fees;
- E. Provide all bookkeeping services for ITNet® entry fees, ITS® prizes awarded, IRS 1099 reporting, and the like;
- F. Warrant ITGAMES for 90 day replacement for defects in materials and workmanship;
- G. Use best reasonable efforts to positively promote the ITNet, ITS® and ITGAMES.

3. OPERATOR OBLIGATIONS

OPERATOR agrees to the following:

- A. Fill out and submit ITS® Debit Account Form, and properly register all ITGAMES;
- B. Comply with the rules and regulations of the ITNet, and ITS, and report non-compliance or cheating on ITS® rules should this become known to OPERATOR;
- C. Pay all money owed to IT in a timely and professional fashion;
- D. Only operate ITGAMES in public, commercial establishments where OPERATOR has used its best, good-faith efforts to determine that the running of the ITS® tournament system complies with local, state and other governing body laws and regulations;
- E. Allow IT at its discretion to place corporate sponsorships and advertisements on ITGAMES.
- F. Allow IT at its discretion to place registered location addresses on the IT web site.



INCREDIBLE TECHNOLOGIES, INC.
3333 N. KENNICOTT AVE. ARLINGTON HEIGHTS, IL 60004
(847) 870-7027 (847) 870-0120 FAX
WWW.ITSGAMES.COM
THE LEADER IN ONLINE PLAY!



4. TOURNAMENT PROCEEDS TAXES

OPERATOR agrees to pay all taxes, fees, licenses and assessments of any kind which may be assessed by any governmental body on the ITNet® monies to be sent to IT, including, but not limited to any gross receipts taxes. If OPERATOR fulfills all its obligations under this Agreement, IT agrees to credit OPERATOR five percent (5%) of the online entry fees at each billing cycle.

5. CONFIDENTIALITY

Each party agrees that the trade secrets, technological information, marketing plans, and any other confidential business information disclosed in the course of performance under this Agreement, shall be held in the strictest confidence and not disclosed to anyone without the written consent of the other party, except by written order of a court or other legal authority with appropriate jurisdiction. IT agrees that it will not disclose information about the ITNet® earnings of specific locations, or that OPERATOR has specific locations, except that IT may disclose information that a specific serial number, with no reference to a location, is earning less in entry fees to IT than the cost of local prizes and maintenance of that unit on the ITNet® system. The obligations of the parties under this section shall survive the termination or expiration of this agreement for a period of two years.

6. MISCELLANEOUS

The validity and construction of this Agreement and of the rights and obligations herein shall be determined and governed by the laws of the State of Illinois. The parties agree that any and all disputes or litigation related hereto, shall be resolved in the state or federal courts within Cook County, Illinois. If any provision of this Agreement shall be determined to be invalid, unconstitutional, or illegal, such provision shall be stricken and this Agreement shall continue in full force and effect as to all remaining provisions. The headings in this Agreement are inserted for convenience and reference only, and are not intended to be part of or to affect the meaning or interpretation of this Agreement. This Agreement may herein not be modified or altered except by written instrument duly executed by both parties. This Agreement supersedes and cancels all previous agreements, negotiations, commitments and representations regarding the subject matter of this Agreement which may have previously been made between the parties, whether orally or in writing.

OPERATOR COMPANY NAME

By: _____
OPERATOR SIGNATURE

Incredible Technologies, Inc.

By: _____



INCREDIBLE TECHNOLOGIES, INC.
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ITNet® GAME REGISTRATION FORM

USE THIS FORM ONLY IF YOU CANNOT REGISTER YOUR GAME ON-SITE.

**For faster service, Use Your ITNet® Operator Identification Card
and Register Your Game Right at the Location!**

Company Name: _____	Contact: _____
Address: _____	
Phone: _____	Date: _____
Fax: _____	Email: _____
ITNet® Operator Number (if known): _____	
Debit Account On File: <input type="checkbox"/> Yes <input type="checkbox"/> No If No, include ITS® Debit Account Form.	

Game Type: <input type="checkbox"/> Golden Tee Fore! <input type="checkbox"/> Big Buck Hunter II <input type="checkbox"/> Other _____
Game Serial Number: _____ <small>This number is displayed in test mode and on the LED sign.</small>
Location Name: _____ <small>Please limit location name to 20 characters or less.</small>
Location Address: _____
City/State/Zip: _____
Location Phone Number: (_____) _____
<small>To avoid excessive phone charges, please enter the phone number of the jack that the machine is connected to.</small>
Preferred Call-In Time: _____ <input type="checkbox"/> am <input type="checkbox"/> pm

Please Select One of the Following:	
<input type="checkbox"/>	Please REGISTER this Game. Note: ITS Tournament play is allowed in public establishments only.
<input type="checkbox"/>	Please UNREGISTER This Game.
<input type="checkbox"/>	This Game is in a NEW LOCATION . Old Location Name: _____



Fill out this form completely and mail or fax to:

Incredible Technologies, Inc.
3333 N. Kennicott Ave. Arlington Heights, IL 60004
(847) 870-7027 Phone (847) 870-0120 Fax

Allow 5 to 8 Business Days for Processing.

rev 03/04

APPENDIX A

GENERAL TROUBLESHOOTING

Video Problems

<i>Symptom</i>	<i>Probable Cause</i>	<i>Solution</i>
No picture	Check Dip Switches.	Check monitor resolution chart on page 10 for correct SW-5.
	Bad connection.	Make sure there are good connections from the board's video outputs (see JAMMA connections - Page 51) to the monitor's video inputs. Make sure the video card cable is connected to the main PCB.
	Monitor.	Make sure the monitor is operating correctly. (Check it with another compatible logic board).
	Voltage too low.	Check all power supply voltages.
	JAMMA Harness connected improperly.	Identify Pin 1 on the JAMMA connector and on the PCB. If installed incorrectly, damage to the PCB may have occurred.
Scrambled Picture	Missing sync connection or misadjusted monitor.	Check the sync connection - Adjust monitor.
	Dip SW-5 set in the wrong resolution.	Check monitor resolution chart on page 10 for correct SW-5.
Missing colors or washed out color	Bad video connections.	Check the video red, green, and blue connections at video card cable and JAMMA harness.
Bright, blurry, or rolling picture	Misadjusted monitor.	Adjust the monitor, not the board. (Refer to your monitor manual).
Picture too large, too small, or off center	Misadjusted monitor.	Adjust the monitor, not the board. (Refer to your monitor manual).
Video image is flipped	Incorrect Monitor Wiring	Reverse the monitor's convergence wires or flip the monitor 180°. (Refer to your monitor manual).
Diagonal white lines or snow	GND problem or interference from other equipment.	Make sure you have Video Ground connected at the monitor and pin 14 of JAMMA.

GENERAL TROUBLESHOOTING (CONTINUED...)

Sound Problems

<i>Symptom</i>	<i>Probable Cause</i>	<i>Solution</i>
No sound	+12 vdc power supply is bad	Try another +12 vdc connection from the power supply.
	Bad connection to the board.	Check for +12 vdc power on the board.
		Check for +5 vdc power on the board.
	Sound adjustment in Operator Adjustables	Check the volume setting in the OPERATORS ADJUSTABLE section of the Operator Mode. All of the attract mode sounds are "OFF".
	JAMMA Harness connected improperly	Check the speaker connection.
	Miscellaneous	Identify Pin 1 on the JAMMA connector and on the PCB. If installed incorrectly, damage to the PCB may have occurred.

LED Sign Problems (Tournament Version Only)

<i>Symptom</i>	<i>Probable Cause</i>	<i>Solution</i>
The LED message is not getting updated.	Improper connection.	Check that the sign cable is plugged in the jack labeled SIGN on the PCB, and the other end is plugged into the LED sign.
		Check that the power jack is connected properly to the sign and that the sign is getting power.
The LED sign is not running.	No power.	Make sure there are +12 volts going to the sign.
		The long bracket screw is used in the top hole instead of the bottom, causing damage to the sign board.
"Sign Problem" icon is displayed in the lower right corner of the monitor.	Bad sign logic board.	Replace with a known good sign logic board.
	Bad sign serial cable.	Replace with a known good serial cable.
	Bad main board.	Replace with a known good main board.

*Note: THE LED Sign's serial cable looks like a phone line but it is not. It has one end that is different and is specifically made for the LED Sign.

GENERAL TROUBLESHOOTING (CONTINUED...)

Control Problems

<i>Symptom</i>	<i>Probable Cause</i>	<i>Solution</i>
Buttons do not work or are partly inoperable. Or the selections keep scrolling on Operator Mode menus.	Switches not properly connected.	Make sure that the common post of the switch is connected to ground. Make sure each individual switch is working by doing the Control Panel Test found in the SYSTEM TESTS section. Make sure that the signal wire for that particular switch is connected to the normally open post of the switch.
	JAMMA Harness connected improperly.	Identify Pin 1 on the JAMMA connector and on the PCB. If installed incorrectly, damage to the PCB may have occurred. Make sure pins 27 and 28 of JAMMA are properly grounded.
	Miscellaneous.	Make sure that the signal wire has a connection from the switch to the board. Make sure proper voltage is hooked up to the counter. The signal wire is not connected to coin counter. (Check continuity). Verify that the counter is good.
Coin counter not working		
Trackball does not work	No +5 voltage.	Bad inductor (L51) or bad connection to trackball. Check for +5V on J51 Pin 1.
	Bad trackball or trackball cable.	Change with known, good trackball and/or trackball cable.
	Trackball not connected to trackball connector J51.	Connect trackball cable to J51 trackball 1.

GENERAL TROUBLESHOOTING (CONTINUED...)

Power-Up Problems

<i>Symptom</i>	<i>Probable Cause</i>	<i>Solution</i>
No reaction when game is turned ON	Voltage not good.	Check all power supply voltages.
		Short between power and ground. Check for foreign material.
		Turn power off. Disconnect the harness and measure the resistance between power and ground. It should read around 600 ohms. (0 ohms is a dead short).
	No power from the power supply.	Make sure the harness is not shorting to anything, such as bare or frayed wires shorting out each other or hitting bare metal.
		Replace power supply.
	Short on the board.	Check for loose or foreign material on the board.
	Hard drive connected improperly.	Make sure hard drive ribbon cable is connected correctly. The red wire on ribbon cable connects to pin 1 on board.
	JAMMA Harness connected improperly.	Identify Pin 1 on the JAMMA connector and on the PCB. If installed incorrectly, damage to the PCB may have occurred.
	Open on socketed IC's	Check for bent pins on socketed parts. Make sure that all IC's are seated in their sockets properly.
Power Fluctuation	JAMMA Connector Malfunction	Install Power Bypass Cable included with Kit, to route power around the JAMMA Connector for GREEN BOARD.

GENERAL TROUBLESHOOTING (CONTINUED...)

Miscellaneous Problems

<i>Symptom</i>	<i>Probable Cause</i>	<i>Solution</i>
Green LED not blinking (D5A or D20)	Program not running.	Make sure all socketed IC's are seated correctly. Look for bent pins.
	Bad connections.	Turn power off. Make sure you have continuity from PCB to power supply.
Sounds Bad	Miscellaneous	Check the speaker connections.
On power up the game goes through a long test ending with the Player Control Test	Start switch is stuck or the signal wire is connected to the normally closed post.	Fix the Start switch. Put the signal wire on the normally open post.
Game comes up in Test Mode	Dip Switch 51 is "OFF".	Make sure SW51-Dip Switch 1, near the JAMMA, is in the "ON" position.
Intermittent Resets	Game is not connected to earth ground	Trackball must be earth grounded Cabinet is not connected to earth ground. (All metal should be connected to the earth ground)

CD-ROM Upgrade Problems

<i>Symptom</i>	<i>Probable Cause</i>	<i>Solution</i>
Will not begin the update or updates gets stuck on a file	Low voltage after CD-ROM is connected.	Check all power supply voltages.
	Incompatible CD-ROM Drive.	Try a different CD-ROM Drive. Use the list of known good drives below.
	Possible faulty CD.	Try a different CD.
	Possible bad IDE ribbon cable	Try a different IDE ribbon cable
	Cable does not have a key and is connected backwards	Remove cable. Make sure pin 1 is oriented correctly. Re-insert cable.
Game powers up with a red screen.	CD ROM Drive not in Slave Mode.	Set the CD ROM Drive to Slave Mode.
	Security chip or Boot ROM is bad or damaged.	Check for bent pins. Make sure pin 1 is oriented correctly. Check for bent pins on the IDE connector.
	Update does not load from CD-ROM	Press SW-51 button on board to reset game. See if CD-ROM is detected and loads on second reboot.

CD-ROM DRIVES LISTING

CD ROM DRIVE LISTING

The following CD-ROM Drives have been tested and are known to work with the Golden Tee Fore system. Most of these drives are available through retail outlets and can be purchased as low as \$30.00. Please remember that the faster your drive is, the faster the update will be.

SONY	CDU -4821	SAMSUNG	52X INT EIDE BEIGE
SONY	52X CD-R 5211	LG ELECTRONICS	52X IDE CD-ROM RETAIL
HITACHI	CDR-8330	US DRIVES	CYBERDRIVE 56X EIDE CD-ROM
TEAC	CD-56E	BENQ	56X IDE CD-ROM
SONY	CDU-4011	MITSUMI	54X CD-ROM DRIVE
LG CDR	8400B	SONY	52X IDE CD-ROM DRV
MEMOREX	CD 482E	SONY	52X INT IDE CD-ROM RETAIL
ACTIMA	A36T	ASUS	52X INT ATAPI CD-ROM
AFREY	CD-2050E	TEAC	40X IDE INT CD-ROM DRV BLACK
PANASONIC	CD-594-C	BUSLINK	IDE INT 52X CD-ROM PC
TOSHIBA	XM-6102B	OBI-IBM	48X-20X IDE INT CD-ROM
MITSUMI	CRMC-FX400D	425278	IBM 48X 20X CD-ROM BLACK INT IDE

Be certain that your CD-ROM drive is in SLAVE mode. You may have to consult the instructions that came with your CD-ROM drive to determine how to do this.

POWER SURGE PROTECTION RECOMMENDATIONS

If you are in an area of the country that experiences frequent lightning strikes, or in a location with unreliable power distribution, it is recommended that you protect your entire system from lightning strikes, power surges and brown outs. The following products or equivalent are highly recommended. If power to the location is lost, these products will allow the machine to continue working for at least 5 minutes, allowing players to complete their games in progress. These products are available in many retail chains, such as CDW and Best Buy.

APC Back-UPS 500 (or equivalent)

Emergency battery backup and surge suppression for your entire system.

The effects of power problems include lockup, complete data loss, hardware degradation, damaged motherboards, and more, making downtime inevitable. An APC Back-UPS instantly switches your game to emergency battery backup power and allows you to play through brief power outages or to shut down your system in the event of an extended outage. High-performance surge suppression protects your game from electrical noise and damaging power surges - even lightning.

APC ProtectNet PTEL2 (or equivalent)

To protect from lightning strikes through the phone line.

This is a less expensive solution, but will only protect damage that may come through the phone line. Protect your voice mail, answering machine, telex and fax machines, modems and other telephone equipment with the ProtectNet PTEL2 model. The PTEL2 provides 2-line (4-wire) telephone line surge protection. PTEL2 accommodates both standard RJ-11 and RJ-45 telephone jacks and features a self-resetting fuse which makes it maintenance free!

These products and others like them are available from many retail sources. Check for them near you.

APPENDIX B

JAMMA HARNESS CONNECTION AND CABINET SCHEMATIC

JAMMA Harness Connection

WIRE COLOR	SOLDER SIDE	
Black	*	A
Black	*	B
Red	*	C
Red	*	D
		E
Orange	*	F
KEY		H
		J
		K
Yellow-Green	Left Speaker (-)	L
		M
Green-Black	Video Green	N
White	Video Sync	P
Orange-Black	Service	R
		S
Green-Blue	Coin2	T
		U
		V
		W
		X
		Y
		Z
		a
Orange-Yellow	Volume Down	b
		c
		d
Black	GND	e
Black	GND	f

	PARTS SIDE	WIRE COLOR
1	*	Black
2	*	Black
3	*	Red
4	*	Red
5		
6	*	Orange
7	KEY	
8	Coin Counter	Red-Green
9		
10	Left Speaker (+)	Yellow-Red
11		
12	Video Red	Red-Black
13	Video Blue	Blue-Black
14	Video GND	White-Black
15	Test	Blue
16	Coin1	Red-Blue
17	Start 1	Red-White
18		
19		
20	Player 1 Backspin	Black-White (NEW)
21	Player 1 Fly-By	Violet-White (NEW)
22	Player 1 – Left	Brown-White
23	Player 1 – Right	Yellow-White
24	Volume Up	Orange-White
25	Coin 3	Gray-White
26		
27	GND	Black
28	GND	Black

* Power is NOT routed through the JAMMA connector.

Power is now routed through the Power Bypass cable for GREEN BOARDS.

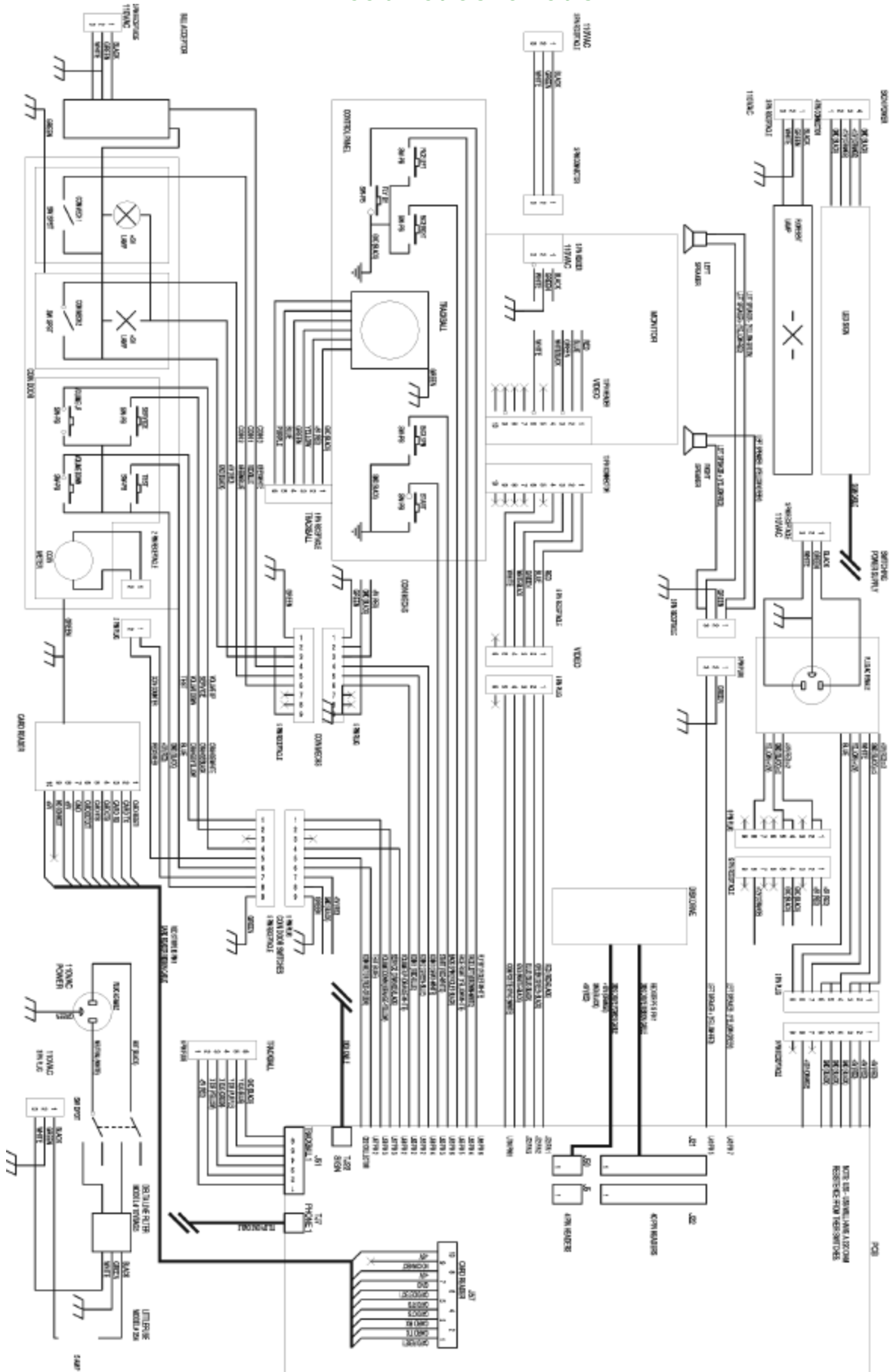
Power is now routed through the ATX Power Supply cable for RED BOARDS.

Trackball Harness Connection

Main 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

NOTE: Remember to connect the trackball cable to J51 of the Main PCB. (Labeled as Trackball 1)

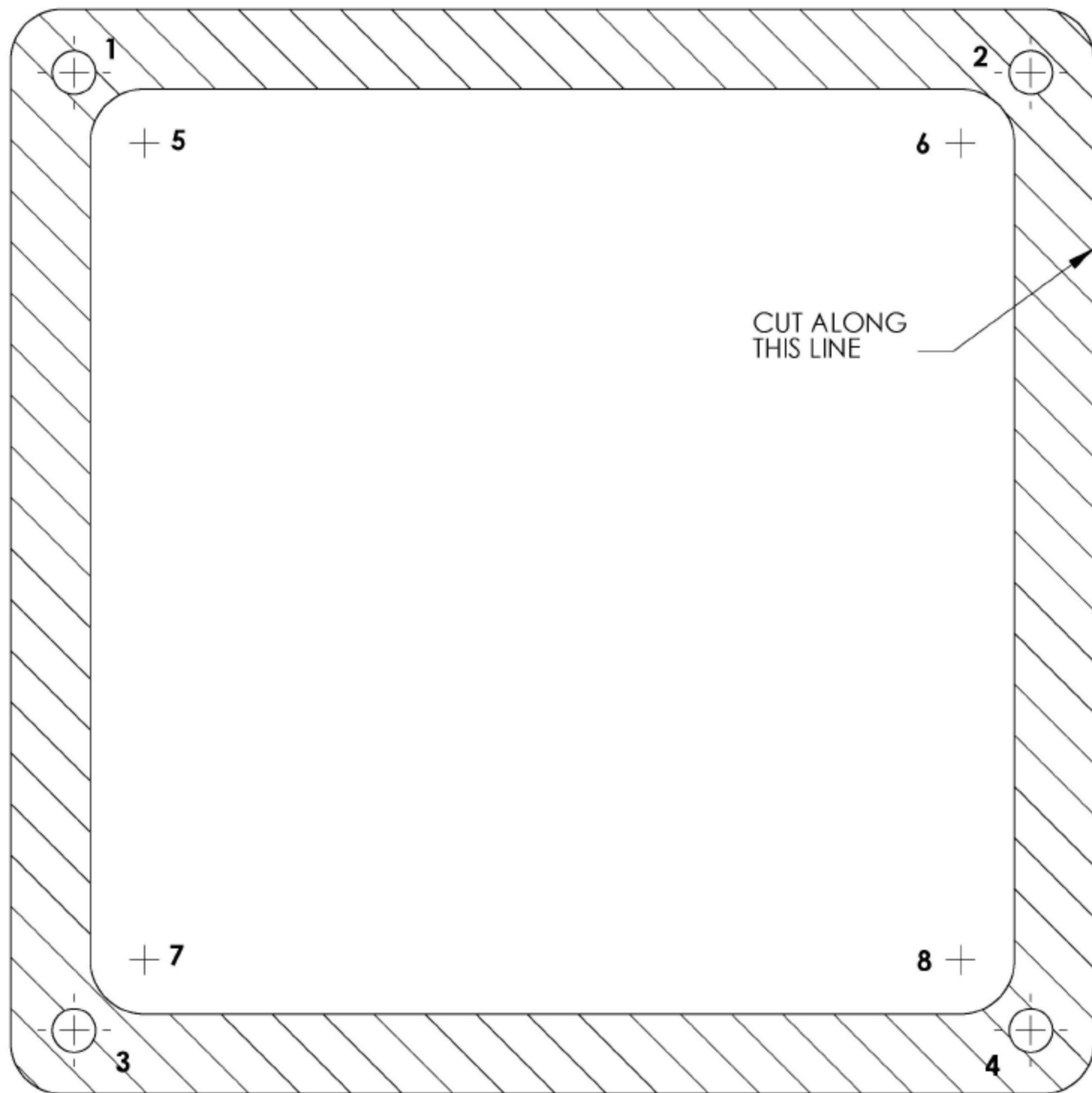
Cabinet Schematic



TRACKBALL MOUNTING TEMPLATE

TOOLS REQUIRED:

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



INSTRUCTIONS:

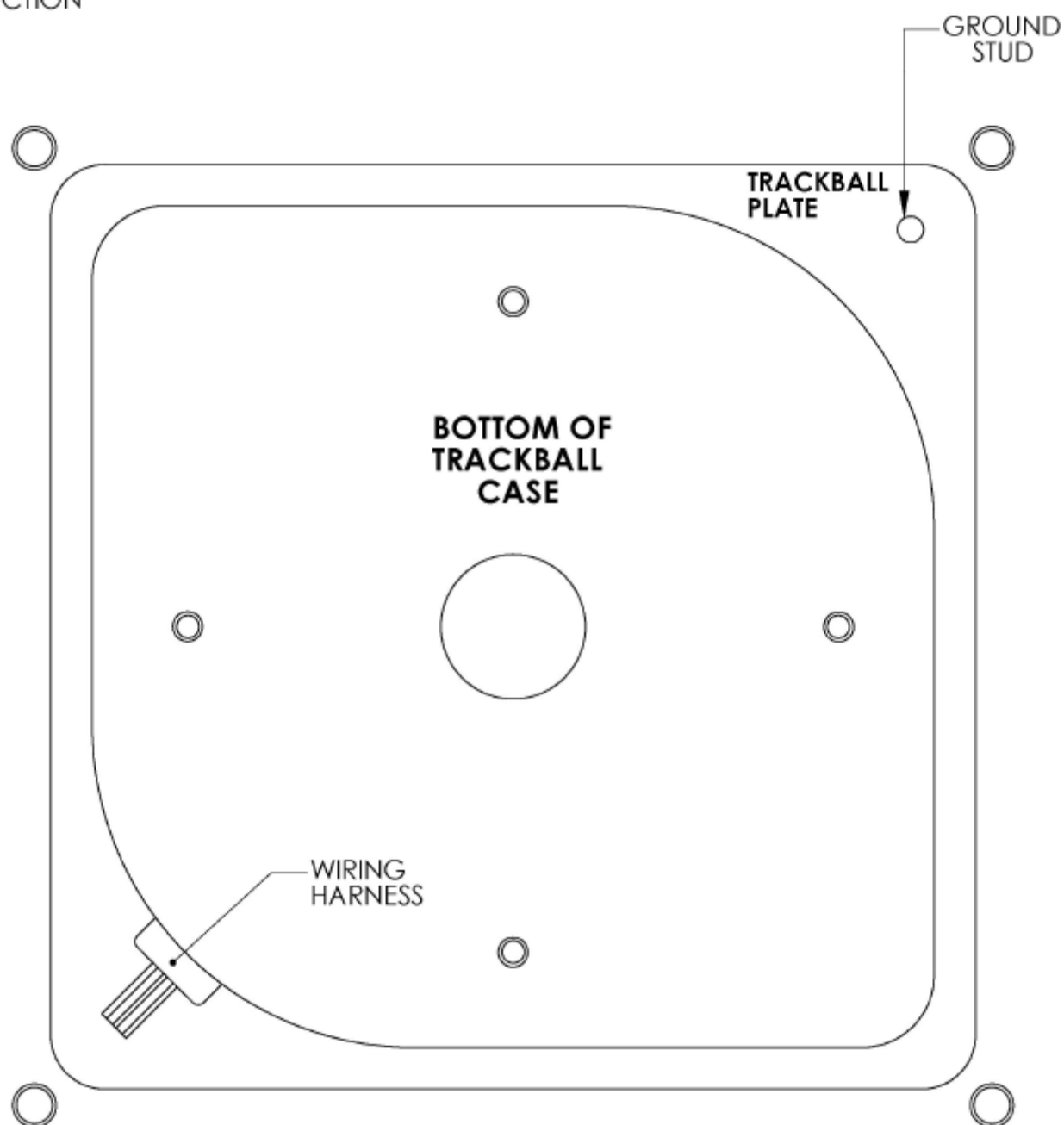
- 1) CUT THE TEMPLATE OUT WITH A PAIR OF SCISSORS ALONG THE NOTED LINE. TAPE THIS TEMPLATE TO THE TOP OF THE CONTROL PANEL AS FAR AWAY FROM THE MONITOR AS POSSIBLE, MAKING SURE THAT THE TRACKBALL WILL CLEAR THE CABINET BENEATH IT.
- 2) USING A SHARP OBJECT, MARK THE (8) POINTS SHOWN HERE ON THE CONTROL 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.



MONITOR
DIRECTION

TRACKBALL ORIENTATION DIAGRAM

(VIEWED FROM UNDERSIDE OF CONTROL PANEL)

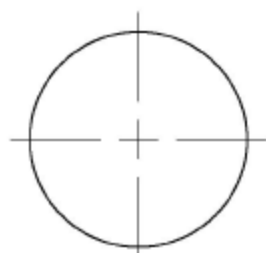


INSTALLATION NOTES:

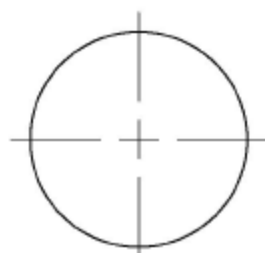
- 1) THE WIRING HARNESS SHOULD POINT AWAY FROM THE MONITOR AND TO THE LEFT.
- 2) GROUND PIN SHOULD BE TOWARD THE MONITOR AND ON THE RIGHT SIDE.

RIGHT BUTTON DRILL TEMPLATE

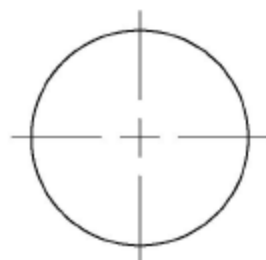
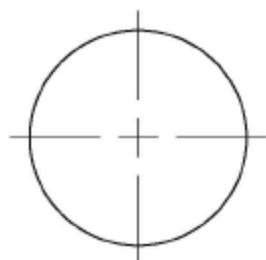
THE CENTER OF
BUTTON #1 SHOULD
BE LOCATED 2.75"
ABOVE, AND 8" TO
THE RIGHT OF THE
CENTER OF THE
TRACKBALL



1

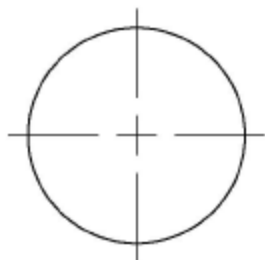


LEFT BUTTON DRILL TEMPLATE



2

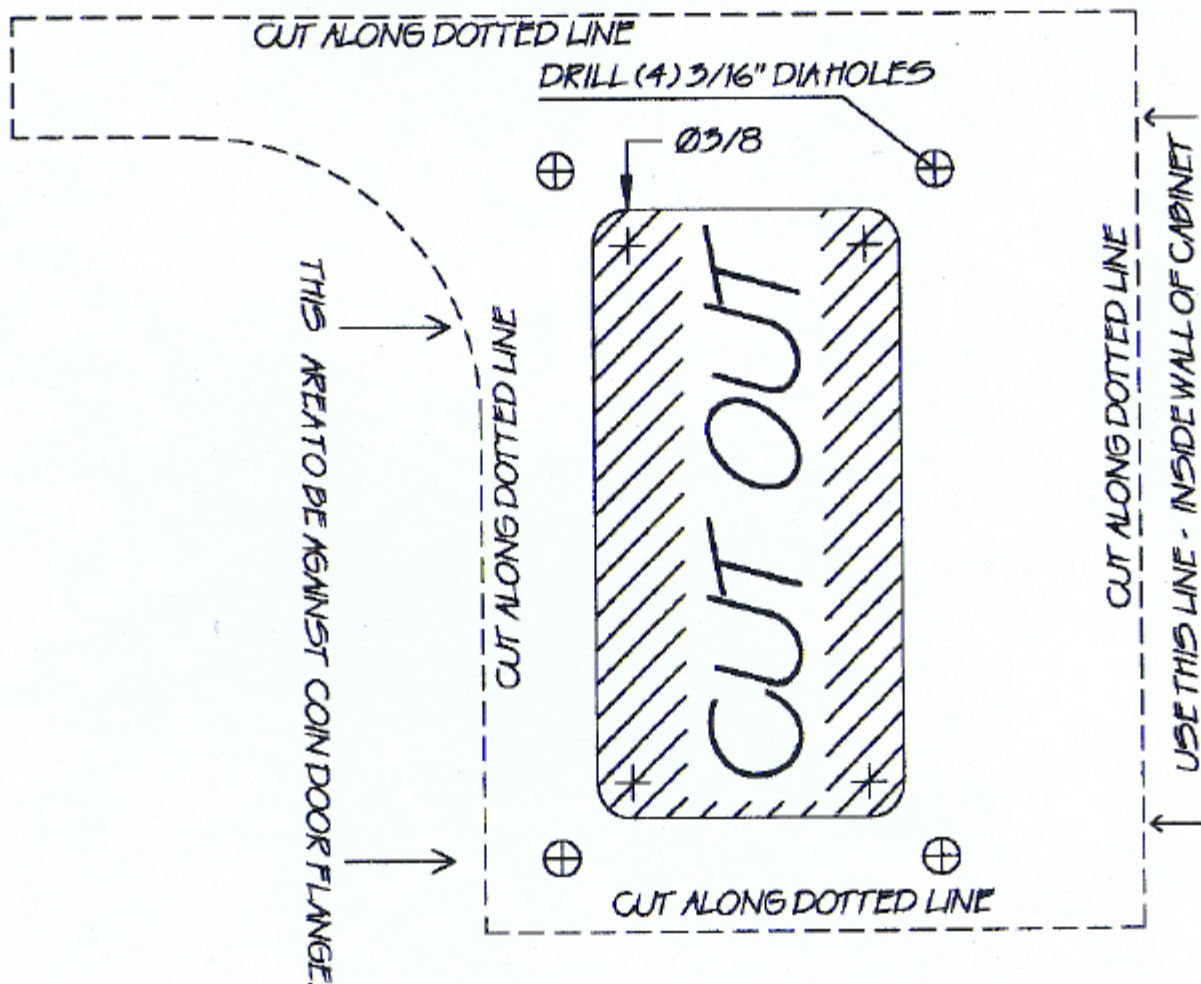
THE CENTER OF
BUTTON #2 SHOULD
BE LOCATED 2.75"
ABOVE, AND 9" TO
THE LEFT OF THE
CENTER OF THE
TRACKBALL.



CARD READER MOUNTING TEMPLATE - SHEET A

FOR MODIFICATION OF INCREDIBLE TECHNOLOGIES' CABINET

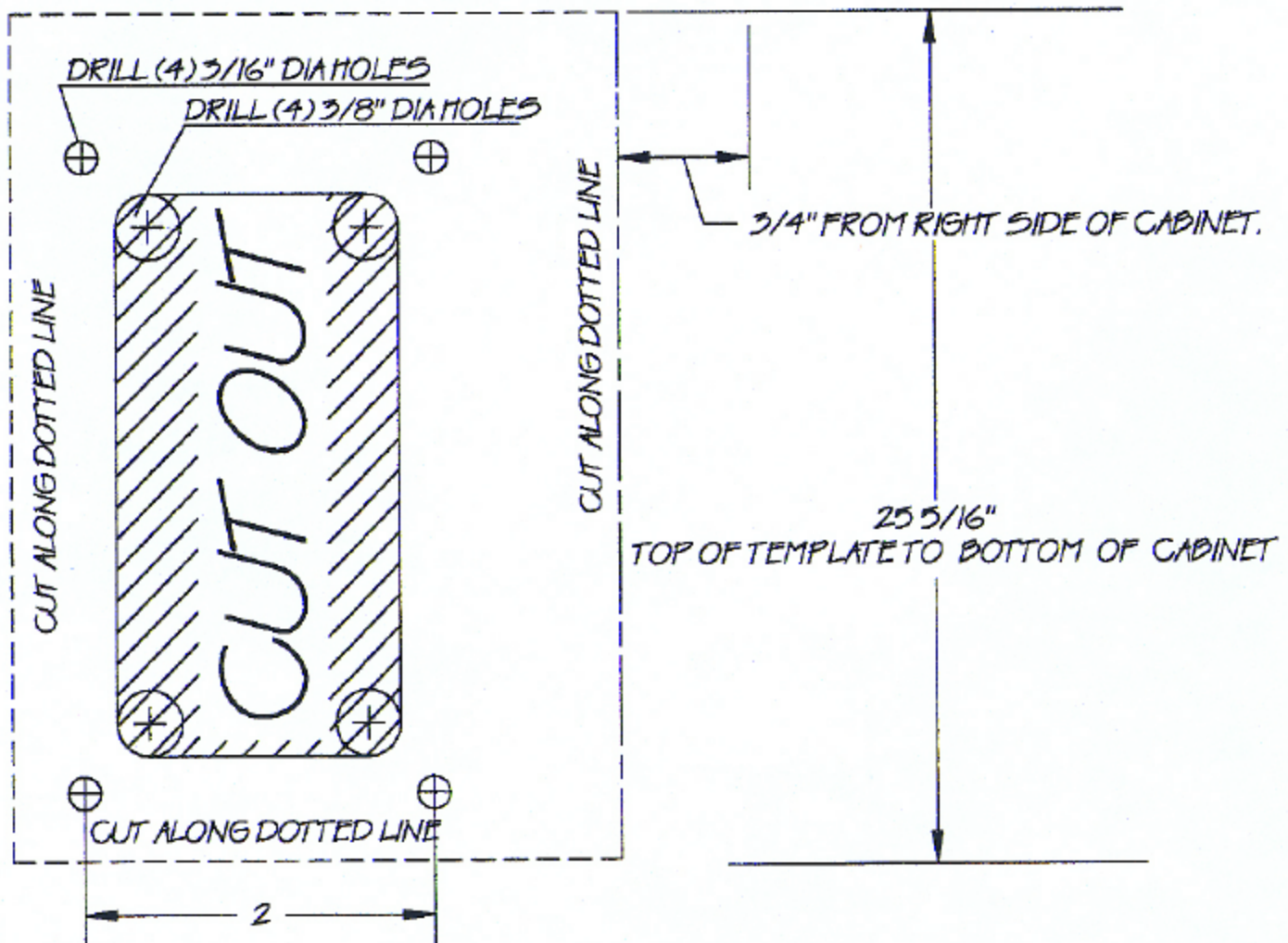
1. CUT OUT AND POSITION TEMPLATE AGAINST COIN DOOR FLANGE AND AGAINST THE INSIDE CABINET WALL.
2. WHILE HOLDING TEMPLATE IN POSITION:
USING AN AWL, MAKE 4 MARKS FOR EACH OF THE PLATE MOUNTING HOLES AND MARK THE CENTER POINTS OF THE CUT OUT.
3. DRILL THE FOUR PLATE MOUNTING HOLES ($3/16$ DIA.).
4. NEXT, DRILL A $3/8$ " DIA. HOLE IN EACH OF THE FOUR CENTER MARKS FOR THE CUT OUT.
5. USING A SMALL SAW, CUT OUT THE AREA BETWEEN DRILLED HOLES.
6. MOUNT CARD READER TO PLATE AND ENTIRE ASSY. TO CABINET.



CARD READER MOUNTING TEMPLATE - SHEET B

CARD READER POSITIONING FOR MOST GAME CABINETS

1. CUT OUT TEMPLATE AS SHOWN (along dotted lines).
2. USING A TAPE MEASURE, LOCATE TOP OF CUTOUT TEMPLATE AT $25 \frac{5}{16}$ " FROM THE BOTTOM OF THE CABINET AND $\frac{3}{4}$ " FROM THE RIGHT SIDE OF THE CABINET.
3. WHILE HOLDING TEMPLATE IN POSITION:
USING AN AWL, MAKE 4 MARKS FOR EACH OF THE PLATE MOUNTING HOLES AND MARK THE CENTER POINTS OF THE CUT OUT.
4. DRILL THE FOUR PLATE MOUNTING HOLES ($\frac{3}{16}$ DIA).
5. NEXT, DRILL A $\frac{3}{8}$ " DIA HOLE IN EACH OF THE FOUR CENTER MARKS FOR THE CUT OUT.
USING A SMALL SAW, CUT OUT THE AREA BETWEEN DRILLED HOLES.
6. MOUNT CARD READER TO PLATE AND ENTIRE ASSEMBLY TO CABINET.



APPENDIX C

ITS®/ITNet® ONLINE OVERVIEW

PLEASE NOTE: ITS® TOURNAMENT PLAY IS NOT AN OPTION ON KIT VERSIONS OF GOLDEN TEE® FORE.

NOTE:

ITS, or International Tournament System, runs and administers tournaments on Incredible Technologies' products, including Golden Tee® Fore! and Big Buck Hunter™. ITS® has enhanced and utilized the new and sophisticated ITNet® (Incredible Technologies® Network) system to make Golden Tee® Fore! a true online coin-op experience. ITS® is responsible for setting up and administering national tournaments and paying prizes to the winners, using the ITNet® system as an administrative tool to get things done faster, easier, and more reliably.

- **ITS, or International Tournament System™**, which runs under **ITNet®** is proud to bring tournaments to players across the nation on registered and connected Golden Tee® Fore! machines. **ITNet®** is the networked system ITS® uses to hook up all of its game machines to a central computer via normal telephone lines. **ITNet®** is capable of supporting hundreds of thousands of machines online. Every Golden Tee® Fore! game contains special software and communications hardware that offers players a choice of regular, league, or tournament play. League Play is designed to help the "more than average" player prepare for tournaments. Tournament play allows players from all over the U.S. to compete for cash prizes. Both league and tournament plays are designed to offer new sources of income and encourage repeat play. Various skill-based tournaments are held throughout the year, offering challenges and prizes to players across the country.
- **GTGA League Play** is available to players on your machine as long as your game stays **ITNet®** enabled, meaning it makes a successful call to **ITNet®** every other day. This feature awards GTGA Player points for repeat play and skill shots, which are used as rankings on nationally posted leaderboards. League play is a great training ground for moving toward tournament competition. Additionally, League play tracks individual lifetime statistics, even determining a player's handicap. This personal information can be used during in-house events and leagues, opening exciting new methods of online and offline competition and revenue.
- ITS® tournaments will vary in length, usually running on a monthly schedule. Before each tournament begins, a message is sent to the LED sign attached to each tournament cabinet, announcing the tournament dates and prize structure. At the specified date, the tournament automatically begins on all of the valid tournament games. A tournament is running when the green light appears next to the ITS® logo in the upper right hand corner of the game screen. At any given time, the course tournament conditions are the same on every participating machine, offering an even playing field across the country.
- Players are charged more for League play, tournament play, and other online features, compared to regular play. A portion of these player-supported fees is paid to Incredible Technologies, to fund tournament prizes, compile statistics, and develop new operator features. The **ITNet®** portion of these features is pre-determined, but the operator can adjust the total charge to a player. Any earnings collected from regular play (Stroke and Skins) are not collected by IT.
- **ITNet®** was designed to be as hands-free as possible for the operator and location. Each machine has special communications hardware that easily hooks up to a normal telephone jack. Once plugged in, you can register your machine with **ITNet®** via the machine's registration menu, or by filling out an **ITNet®** Game Registration Form. Each operator must also fill out an **ITNet®** Debit Account Form detailing pertinent billing information. Once the machine calls successfully and **ITNet®** confirms it is a registered machine, league and tournament play are activated.
- Each game machine is programmed to make a short local or toll-free phone call during off-hours. The machine calls the **ITNet®** central computer and downloads information such as tournament conditions, league and tournament leaderboards, and player statistics for those using the Golden Tee® Gold Card. Throughout the day, national and local tournament leaders, league leaders, and course records can be viewed during the game's attract mode.
- **ITNet®** was designed with the operator in mind. Each **ITNet®** compatible game can act just like a regular video game on your route. The games can be moved to different locations and will play regular stroke or skins games even when not hooked into **ITNet**. Location information changes can be done directly on the machine or by filling out forms and faxing them to Incredible Technologies.
- **ITNet®** will even allow you to check on your **ITNet®** compatible equipment from your home or office. With IT's new web-based Operator Services, you can check audits and bookkeeping information, and adjust settings like volume control and pricing. You can access this feature from any computer that has web access by going to a secured **ITNet®** Operator Services area on the Incredible Technologies® website at www.itsgames.com.
- **ITNet®** is a breakthrough concept in the coin-op industry. Combining the power and versatility of online technology and skill-based competition, **ITNet®** offers incredible potential for new and ongoing sources of income that will thrive for years to come.

APPENDIX D

GAME ICON DESCRIPTIONS

Your game will display a number of icons at the bottom of the screen, to help you know the status of your game at a glance. These will only be visible if you have calling enabled to ITNet.

PLEASE NOTE: ITS® TOURNAMENT PLAY IS NOT AN OPTION ON KIT VERSIONS OF GOLDEN TEE FORE.

NOTE:

If you choose to disable calling on your cabinet all icons will be hidden. It will then act as an off-line video game. If you do not have a cabinet intended to run tournaments you will never see the ITS® tournament indicator or Sign Problem icon.

Lower left-hand corner



The ITNet® logo without an X means your machine is successfully calling ITNet. This means that ITNet® mode is enabled, league play is activated and tournament – if you have a tournament dedicated cabinet – is also available. The ITNet® logo with a Red X means ITNet® is disabled due to unsuccessful retries to ITNet, a successful call has never been made, or ITNet® disabled that machine (in which case you should contact Incredible Technologies).

Upper right-hand corner



These icons will only show if you have a dedicated tournament-active cabinet. If the stoplight is red, no tournament is currently running. If the stoplight is green, that means a tournament is currently in progress.



These icons will only show if you have Version 4.00.00 or higher. If the stoplight is red then Hole-n-win! is not available. If the stoplight is green, that means Hole-n-win! is available.

Lower right-hand corner

The following icons are what you will see if the last call was unsuccessful:

NOTE:

In most cases, the machine will try to call ITNet® again. If you do get error messages you should always double-check how you have set the machine up for dialing. Make sure any numbers needed to dial out, the wait needed to get an outside line, and the phone line types are correct.



- Showing a picture of a phone and saying CALL RETRY, this icon will have a number underneath it. This tells you how many times the game has retried calling ITNet® and has been unsuccessful.



- This icon tells you that there is a phone line problem and that the modem thinks there is no dial tone. Try plugging in a real phone into the phone jack labeled PHONE2 on the PCB and check for a dial tone. If you hear one then try dialing a phone number to make sure you can dial out. You may get this icon if the phone line was in use at the time of the call. For example, someone picked up the phone or tried to send a fax when the machine attempted to dial ITNet®.



- This icon tells you that the modem is receiving a busy signal or believes the line it is dialing out from is busy. This could mean that ITNet's system of phone lines was busy or it is dialing a wrong number.



- This icon tells you that either ITNet® did not answer the call or that the machine is dialing out the wrong number and therefore not receiving an answer.



- This icon will tell you that the machine did connect to ITNet® but something went wrong and not all messages and data were transferred correctly between the machine and ITNet. Possible reasons for this could be someone picked up the phone line or tried to make a fax or PC modem call during the machine's call to ITNet.



- If you see this icon that means that the modem is dialing a wrong number or the machine's modem and ITNet's modem were having difficulty in communicating with each other. Normally if it is a communication error the problem will correct itself. If the error persists, contact IT for service.



- If your game is calling a local ISP to connect to ITNet, this icon is displayed if communication between the ISP and ITNet® is having communication problems.



- This Icon will show up if the ITNet® server is experiencing problems but the machine did connect to ITNet. Your game will eventually complete a successful call once any ITNet® problems have been corrected.

The following icon is only displayed if you have a tournament-dedicated cabinet:



- This icon is displayed if your cabinet's LED sign is experiencing a problem. The first step is to check out your LED sign in the SYSTEMS TEST MENU. If everything is ok force a call to ITNet® in the ITNet® ADJUSTABLES MENU. If you are still experiencing a problem, call your local distributor or IT for service.

APPENDIX E

FREQUENTLY ASKED QUESTIONS ABOUT ITNet®

PLEASE NOTE: ITS® TOURNAMENT PLAY IS NOT AN OPTION ON KIT VERSIONS OF GOLDEN TEE FORE.

How do I make the game call into ITNet® at any time?

Enter Operator Mode by inserting you Operator ID Card into the card reader, or press the Test button inside the coin door. From the OPERATOR MODE MENU, highlight the ITNet® MENU, and press the Start button. Next select the ITNet® ADJUSTABLES MENU and press the START button. Highlight FORCE CALL and press the START button. Change the NO to a YES by rolling the trackball to the right. Exit Operator Mode by repeatedly pressing the START button. The game will then attempt a call to ITNet®.

Does the game call ITNet®, or does ITNet® call the game?

The game is programmed to call into ITNet® on a regular phone line one time every other day. ITNet® cannot call the machine.

When does the game call ITNet® and how many times?

The game calls once every other night at a predetermined time selected by ITNet. The default calling time is between two and four in the morning.

What if the game is turned off and misses its scheduled time to call ITNet®?

As soon as the game is turned on it will attempt to complete a call to ITNet®.

Can the operator select a specific time for the game to call ITNet®?

Yes, ITNet® can assign a specific calling time such as between 7 am and 8 am. Call Incredible Technologies® to set up this service on your game.

How will I know if a successful call has been made?

When the game is attempting a call, the screen will display an ITNet® call screen. The text near the bottom of the screen will show the length of the call in progress, followed by a call status message. A typical successful call will display the following: CONNECTING TO ITNet™, EXCHANGING DATA WITH ITNet® (you'll see a black bar that fills up with purple as messages are sent from your machine to ITNet), and DISCONNECTING FROM ITNet™. At that point, you will see at the bottom STATUS: SUCCESSFUL.

What are the symbols at the corners of the screen for?

Your game will display a number of icons at the bottom of the screen, to help you know the status of your game at a glance. These will only be visible if you have calling enabled to ITNet. There are three main places where you will see an icon. If your cabinet is set up to run ITS® tournaments, a gold ITS® logo and a stoplight are displayed in the upper right hand corner of the game screen. If a tournament is currently in progress, the stoplight will be green, if not it will be red. If you have 2004 or higher and you have it enabled you will see a Hole-n-win! icon displayed in this corner as well. The stoplight will inform players if it is active or not on that machine. It will flash between the Hole-n-win! icon and the ITS® tournament icon.

The bottom left hand corner will display one of two icons: an ITNet® logo or an ITNet® logo with a red X through it. The regular ITNet® logo means that you are ITNet® enabled, your machine has made a successful call within the last 24 hours and league and tournament play have been activated. The ITNet® logo with a red X through it means ITNet® has been disabled. ITNet® could be disabled for a variety of reasons. Your game may have a hard drive problem, or some tournament variables have been corrupted. If the game has not made a successful ITNet® connection over the last 24 hours, or you have disabled the calling feature, the red X will also appear.

The icons on the bottom right hand corner of the game screen display the status of your machine if the last call was unsuccessful, if there is a modem error, or if there is a problem with your LED Sign (tournament dedicated cabinets).

The ITNet® logo has the red X through it, how can I re-enable ITNet®?

If your game is ITNet® disabled due to corrupted variables, hard drive problems, or ITNet® disabled it, your machine is most likely calling successfully but ITNet® is unable to function. Please call IT's Service Department to correct the problem. If ITNet® becomes disabled after 23 hours of unsuccessful retries, you should check your phone connections and attempt to force a successful call. If you disabled calling and now wish to have ITNet® enabled, enter the OPERATOR MODE MENU, then the ITNet® MENU, then into the ITNet® ADJUSTABLES MENU, then choose the DISABLE/ENABLE CALLING: STATUS - DISABLED menu selection and press the START button. NOTE: This icon is displayed on your machine until you have successfully registered the game with ITNet. Game registration can be completed on the game itself, or by filling out a Game Registration Form and submitting it to Incredible Technologies.

If my machine does not call ITNet® successfully, will it automatically retry?

Yes. Your machine is set-up to call ITNet® once every day, usually around the hour of 3 AM. If it fails on that first attempt, it will try again on an aggressive schedule for 24 hours. Once the twenty-four hour period has been reached the game will disable ITNet® and will attempt to call less frequently until it calls successfully, you force a successful call, or you disable calling.

When I attempt to make a call to ITNet®, the game comes back and says no dial tone found. What do I do?

Plug a normal telephone into the extra phone jack on the game's PCB. A dial tone must be heard on the phone. If no dial tone is heard check your phone line connections. If a dial tone is heard, try dialing a phone number to make sure you can call out. If you can dial out, set dial tone detect to off.

I have a dial tone but I never get a successful call into ITNet®. What do I check first?

Make sure the settings in the ITNet® MENU are correct (Refer to page 29 of the manual). Ask yourself some questions. Is this location on a rotary phone system? Is the phone line on a computer phone system? (The modem may not work on all phone systems or may be interrupted by fax or modem calls.) Do I have to dial something to reach an outside line? Can this line connect to toll free numbers? Is there a credit card machine on this line that is used frequently?

Can I use this game on a rotary phone system?

The game is factory set to call out on a tone system, but you can set your game to use rotary (pulse) dialing. Enter the OPERATOR MODE MENU and select ITNet® MENU. Next select ITNet® ADJUSTABLES MENU and Highlight ROTARY DIAL SETTING. From there select YES and press the START button. Your phone is now set up for rotary/pulse dialing. You can also set this up in the CHANGE LOCATION INFORMATION screens or when you register your machine with ITNet®.

When I force a call into ITNet® it says modem connected, but the game comes back and says ITNet® call unsuccessful. Why?

The game may be on a noisy phone line. This can be caused by old phone lines, too many devices on the line, or bad lines coming from the phone company. A direct connection to the box coming into the building or a new separate phone line added to the building is one way to rectify this problem.

I made a successful call so why can't I enter the tournament?

You must be an authorized ITNet® operator to participate in ITNet® features. Complete and submit the ITNet® Debit Account Form and the ITNet® Operator Agreement. Once received, you will be sent an Operator ID Card that allows you to register your games at the location. Game registration information for each game must be mailed, faxed, or completed on the machine for processing. Without registration, your game will not receive tournament data and LED messages. Also, a tournament must be in progress.

My overhead sign has a basic welcome message on it all the time. Why is it doing that and how do I get a regular message on it?

ITNet® pre-loads an introductory message at the factory and should appear when the game is turned on. Sometimes, the sign may lose this message and default to the sign test. To get your correct sign message back, turn your game off and back on, or force a phone call to ITNet®. The new message will then be loaded. Turn the game off and back on again to make sure the message stays in memory. Run the sign test in the test software to make sure the PCB is communicating to the sign. NOTE: The LED sign is very important to tournament play. Players rely on this sign for tournament dates, names, prizes, and rules.

Why do the standings on the Leaderboards sometimes change after a tournament ends?

ITNet® collects data from all machines at the end of the day. Because of this, the Leaderboards are usually a day behind and need an extra day to catch up with real-time play. ITNet® collects and processes the final data to determine final standings. Sometimes this takes a few days, due to unattended or off-line games. When the final data is collected, it is processed to eliminate ineligible players and invalidated entries. The final Leaderboards are then sent back to the games on the next call. This process may also take a few days.

How do I let my locations know who won?

After the final data is processed, ITS® generates final leaderboards of Gold, Silver and Bronze winners. ITNet® sends these leaderboards to participating tournament machines, where they are displayed during the attract mode. Players can enter their Gold cards during the attract mode to jump right to the current leaderboards, or press the Backspin button to cycle through the attract mode.

How does a winner claim a prize?

A player calls the ITS® to claim his prize. The player's name, address, and social security number are taken and a Verification Form is sent. The form must be signed and sent back, along with some form of proof of social security number, such as a driver's license. After the Verification Form is returned and processed, the ITS® sends the player his check. The ITS® pays all prizes to players. The collected player-supported funds sent to ITNet® at the end of the tournament are used to pay out prizes. Players call the ITS® to claim their prize. Operators and locations do not pay prizes.

How do I know how much money to keep for money owed to ITNet®?

When collecting on your ITNet® enabled machines, it is important to separate the ITNet® money from your collection before making your split, so you don't overpay your locations. During your routine collection, use ITNet® COLLECTIONS & AUDITS RESET in the OPERATOR MODE MENU to determine how much money to set aside for ITNet. It is strongly advised that you reset this report to zero after your collection, so each time you collect this report will reflect what is in the cash box.

How often do you transfer funds from my account?

ITNet® bills once a month, on a regular schedule. This monthly statement itemizes the ITNet® fees owed from each of your ITNet® enabled machines. A due date on the statement tells you when the required funds are due to ITNet. If a company check or money order is not received at least 3 days prior to the displayed debit date, the funds will be automatically transferred from the account specified on your Debit Account Form on file with IT. Any questions or discrepancies relating to your bill should be handled before this transfer date.

Note: For other tournament questions please see the ITS/ITNet® ONLINE OVERVIEW.

APPENDIX F

WARRANTY INFORMATION

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 \$55.00 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, Inc. or your authorized Incredible Technologies, Inc. distributor.
- You must have the Incredible Technologies, Inc. component serial number available when calling for an RMA number.
- Merchandise returned without an RMA number will not be accepted.
- Advance replacements can only be obtained by organizations that purchase the product directly from Incredible Technologies, Inc.
- Advance replacements will be billed to the customer until Incredible Technologies, Inc. receives the returned item, 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).

If the original purchaser discovers any physical defect in the media (disk, EPROM, tape) on which the software is distributed or in the documentation, which in the opinion of Incredible Technologies, Inc. (IT) prevents the product from being used as reasonably intended, IT will replace the media or documentation at no charge. The purchaser must return the item to be replaced, with proof of purchase, to IT within 90 days after taking delivery of the software.

IT warrants to the original purchaser that the hardware product is in good working condition for a period of 90 days from taking delivery of the product. Should this product, in IT's opinion, malfunction within the warranty period because of a defect in design, materials, or workmanship, IT will repair or replace this product without charge under the terms as follows. Replacement of either the hardware product or its component parts will be only on an exchange basis. Any replaced parts or components become the property of IT. This warranty does not apply to those products that have been damaged due to accident, abuse, improper installation, natural disaster, or unauthorized repairs or modifications.

IT excludes any and all implied warranties, including warranties of merchantability and fitness for a particular purpose, and limits the purchaser's remedy to returning the software, hardware, or documentation to IT for replacement.

IT makes no warranty or representation, either express or implied, with respect to this software, hardware, or documentation, their quality, performance, merchantability, or fitness for a particular purpose. This software, hardware, and documentation are licensed "as is," and the purchaser/licensee assumes the entire risk as to their quality and performance.

In no event will IT be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or inability to use the software, hardware, or documentation, even if advised of the possibility of such damages. The warranty and remedies set forth above are exclusive and in lieu of all others, oral or written, express or implied. No person, seller, dealer, agent, or employee is authorized to make any modification or addition to this limited warranty.

Some states do not allow the exclusion of implied warranties or liability for incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

- INCREDIBLE TECHNOLOGIES, INC

INDUSTRY CANADA (IC) NOTICE

NOTICE: The Industry Canada (IC) label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local Telecommunications Company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions might not prevent degradation of service in some situations.

A representative designated by the supplier should coordinate repairs to certified equipment. Any repairs or alterations made by a user to this equipment, or equipment malfunctions, may give the telephone communications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection, that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas. **Caution:** Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

NOTICE: The **Ringer Equivalence Number** (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination of an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all devices not exceed 5.

REN: 1.0B

WARRANTY AND REPAIR SERVICE:

Incredible Technologies, Inc.
3333 N. Kennicott Ave.
Arlington Heights, IL 60004-1429
(847) 870-7027 • (847) 870-0120 Fax
<http://www.itsgames.com>

FCC Regulation Compliance

- This equipment complies with Part 68 of the FCC Rules. On the back of this equipment there is a label that contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. You must, upon request, provide this information to your telephone company. (NOTE: REN is not required for some types of analog or digital facilities.)
- This equipment uses RJ11.
- FCC compliant telephone cord and modular plugs are provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is part 68 compliant. See installation instructions for details.
- The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area. (NOTE: REN are associated with loop-start and ground-start ports. Do not use for E&M or digital ports.)
- If your telephone equipment causes harm to the telephone network, the Telephone Company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice is not practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC.
- Your telephone company may make changes in its facilities, equipment, operations and procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.
- If you experience trouble with this telephone equipment, please contact Incredible Technologies® technical department at 847-870-7027 for information on obtaining service or repairs. The Telephone Company may ask you to disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.
- No user serviceable parts are contained in this equipment.
- This equipment may not be used on coin service provided by the Telephone Company. Connection to party lines is subject to tariffs.

CONTACT INFORMATION

IT Sales and Service

To purchase additional Golden Tee® Fore! games or any of IT's other fine products please visit IT's website at www.itsgames.com and click on PRODUCTS!

Incredible Technologies, Inc.
3333 North Kennicott Avenue
Arlington Heights, IL 60004-0129
Fax: 847-870-0120

Technical Support, Warranty, & Repair:

Incredible Technologies, Inc.
847-870-7027 x 121

Parts, Customer Service, & Operator Services:

Incredible Technologies, Inc.
847-870-7027 x 118

ITS® Prize Claims:

Incredible Technologies, Inc.
847-870-7027 x 181

ITNet® Accounting:

Incredible Technologies, Inc.
847-870-7027 x 125

Operator and Gold Cards:

Incredible Technologies, Inc.
847-870-7027 x204

IT Vendor Information

Wells-Gardner:

Phone: 800-336-6630
Fax: 773-252-8299

Mars Technical Service:

Phone: 800-345-8172

NeoTec:

Phone: 909-626-9889
Fax: 909-626-0990

Happ Controls:

Phone: 800-BUY-HAPP
(800-289 -4277)

Replacement Part Numbers

Please refer to these IT part numbers when placing orders.

<u>900266187</u>	Golden Tee® Fore! 2005 Tournament GREEN BOARD, U.S. Version
<u>900009266</u>	Golden Tee® Fore! 2005 Tournament RED BOARD, U.S. Version
<u>900000266</u>	Golden Tee® Fore! 2005 Non-tournament GREEN BOARD, U.S. Version
<u>900094266</u>	Golden Tee® Fore! 2005 Non-tournament RED BOARD, U.S. Version
<u>900269187</u>	Golden Tee® Fore! 2005 Tournament GREEN BOARD, Canadian Version
<u>900009269</u>	Golden Tee® Fore! 2005 Tournament RED BOARD, Canadian Version
<u>900255187</u>	Golden Tee® Fore! 2004 Tournament GREEN BOARD, U.S. Version.
<u>900009255</u>	Golden Tee® Fore! 2004 Tournament RED BOARD, U.S. Version.
<u>900000255</u>	Golden Tee® Fore! 2004 Non-tournament GREEN BOARD, U.S. Version
<u>900094255</u>	Golden Tee® Fore! 2004 Non-tournament RED BOARD, U.S. Version
<u>900009260</u>	Golden Tee® Fore! 2004 Tournament RED BOARD, Canadian Version.
<u>900020266</u>	Golden Tee® Fore 2005 Hard Drive, Horizontal Mount
<u>900020255</u>	Golden Tee® Fore 2004 Hard Drive, Horizontal Mount
<u>900002028</u>	Sign Logic Combo Board
<u>760007102</u>	Card Reader
<u>880000030</u>	Trackball 3-inch White
<u>745000250</u>	ATX Power Supply

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