

# ***SPORTSTATION™***

**CHAPTER  
TWO**

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**OPERATION, FEATURES,  
MAINTENANCE & SERVICING**

# GAME OPERATION

## STARTING UP

Whenever you turn on the machine or restore power, the system executes boot ROM code. The boot ROM contains self-diagnostic tests that automatically verify and report the condition of the disk drive and other hardware. The screen is blank during these tests. If the hardware fails a test, the system displays an error message. The message appears for 30 seconds or until someone presses a button.

- If nobody presses a button, the system quickly completes tests, and then loads game software.
- To skip boot ROM tests and activate the Menu System, press and hold the TEST MODE button. You'll find this button behind the coin door.

Having passed power-up tests, the system enters Attract Mode. Attract Mode consists of typical game scenes and sounds, alternating with high scores. Attract Mode continues until game play commences.

Players insert currency or tokens to start the game. Pressing a START determines which player receives the credit. The game computer asks whether players want to play *NBA Showtime* or *NFL Blitz 2000 Gold Edition*. Players request one or the other via player panel controls. Then players select a team. The game computer associates one team with the Player-1 and Player-2 joysticks. The Player-3 and Player-4 joysticks assume control of the opposing team. Play begins after a countdown period. Play progresses like a real-life football or basketball game. At Game Over Mode, players may choose to begin again. If players choose not to continue, then the system returns to Attract Mode.

## ***NFL BLITZ 2000 GOLD EDITION GAME RULES***

### **INSTRUCTIONS**

Play instructions appear on the information panel over and under the video monitor.

### **ONE TO FOUR PLAYERS**

Players may enter their names for future reference. Then they select teams and run the first play. Players may choose an offensive or defensive play. Additional game information appears on the screen as needed. Team statistics appear at the end of each quarter.

### **CONTROLLING CHARACTERS**

The joystick and action buttons control characters on the field. The joysticks respond to different amounts of deflection as well as direction.

### **GAME ACTION**

Standard league football rules apply, with two exceptions: First downs require 30 yards, and teams only have seven active players. Game adjustment settings determine game length and speed.

The player view of the action changes automatically whenever a better camera angle becomes available. The game sounds include announcer comments and crowd noises.

### **SCORING**

Touchdowns and field goals score points, just as in real football games.

## ***NFL BLITZ 2000 GOLD EDITION PLAY SELECTION***

### **STANDARD PLAYS**

The player may select any of the offensive or defensive plays in the game. Players can choose from pages of standard plays loaded into the game. Use the indicated pushbuttons to view and select any play.

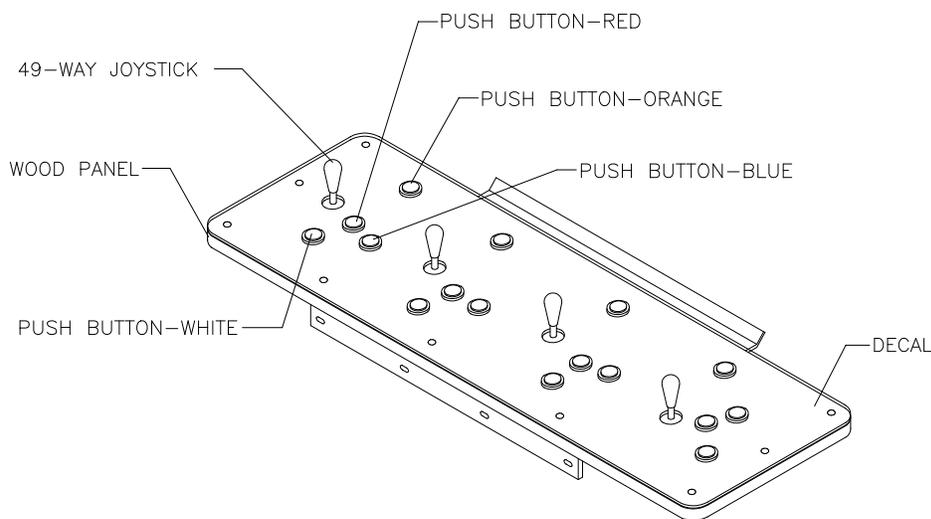
### **CUSTOM PLAYS**

Players may choose to create their own offensive plays rather than depend on the standard plays in the game. Players can design and name their plays using the CREATE PLAY feature, then store these plays for future use. These custom plays become available on an additional page of game plays.

## **NFL BLITZ 2000 GOLD EDITION PLAYER CONTROLS**

The player controls are used to maneuver the team members and attack or defend against adversaries.

- **START (orange).** This button allows players to begin or continue play. Use PLAYER 1 START and PLAYER 2 START to begin a two-player game. START has no game action or service function.
- **JUMP / TACKLE.** This button lifts the offensive team member up or causes the defensive player to tackle opponents. Use this same button to create plays or select menu items during service.
- **PASS / CHANGE PLAYER.** This button activates offensive throws. The defense move switches active control to another teammate. Use this same button to create plays or select menu items during service.
- **TURBO (white).** The TURBO button gives any active character an extra burst of power or speed. Use this same button to create plays or select menu items during service.
- **JOYSTICK.** Each player has a joystick to control the movements of one on-screen character at a time. Use the joystick to create plays or select menu items during service.



### **RECOMMENDED PLAYER CONTROL LOCATIONS**

## **NBA SHOWTIME GAME RULES**

### **INSTRUCTIONS**

Play instructions appear on the information panel over and under the video monitor.

### **ONE TO FOUR PLAYERS**

The player or players insert currency to start the game. Each player chooses a joystick and presses the nearest START button. Players select a team and two characters. In four-player games, each player controls one character. In games with fewer players, each player controls one character. The game computer controls remaining characters. The game displays team scores and statistics at the end of each quarter. Additional game information appears on screen as needed.

**CONTROLLING CHARACTERS**

The joystick and action buttons control characters on the basketball court. The joysticks respond to different amounts of deflection as well as direction.

## GAME ACTION

Standard NBA basketball rules apply, except that the game only includes four active characters. Game settings determine game length and speed. The player view of the action changes automatically whenever a better camera angle becomes available. Game sounds include announcer comments and crowd noises.

## SCORING

The game awards points for baskets, just as in real basketball games.

## NBA SHOWTIME PLAYER CONTROLS

- **JOYSTICK.** Each player's joystick controls the position of that player's characters on the game screen.
- **PASS/STEAL (the blue button)** controls character actions on the game screen. Press PASS/STEAL to attempt to pass or steal the ball.
- **SHOOT/BLOCK (the red button)** controls character actions on the game screen. Press SHOOT/BLOCK to shoot or attempt to block the ball.
- **START (orange buttons).** Each START button allows the corresponding player to begin or continue play.
- **TURBO (The white button)** controls character actions on the game screen. Press TURBO to speed up the pace of a play.

## OPERATOR CONTROLS

### CABINET CONTROLS

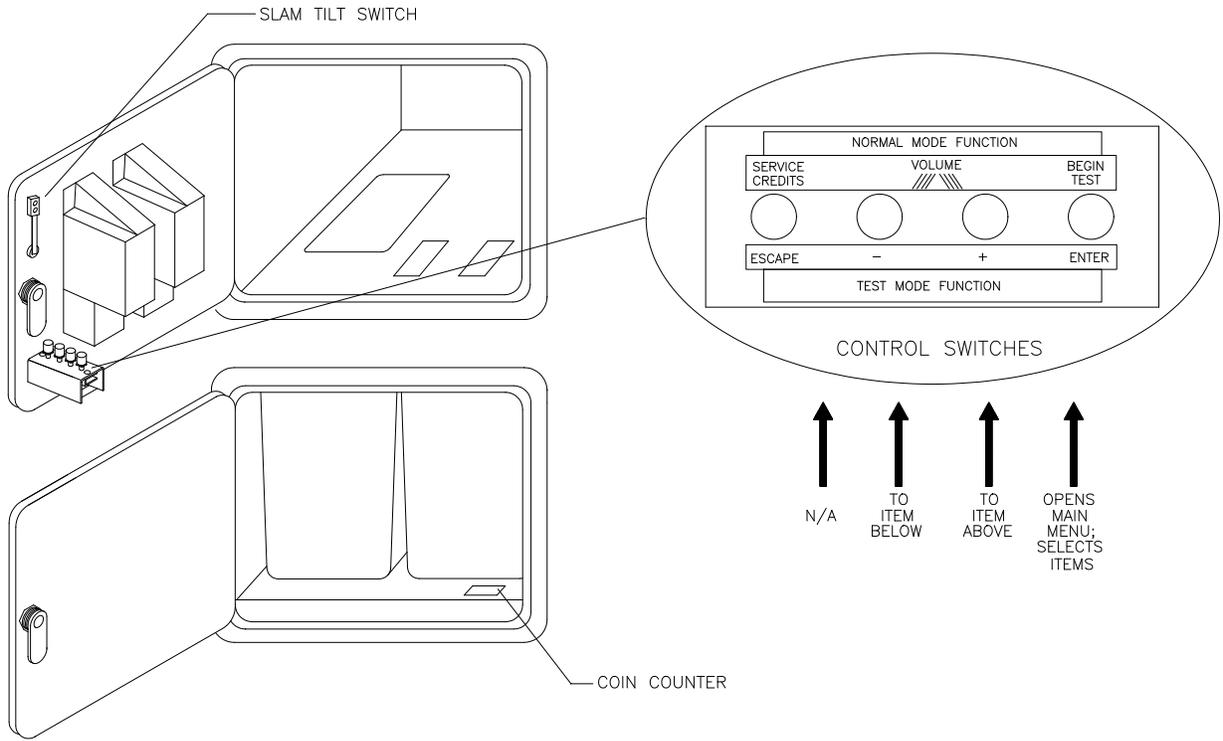
- ◆ **The DIP Switches** set some system variables. You can set other variables with diagnostic control switches.
- ◆ **The Monitor Remote Control Board** allows you to adjust the video display for optimum viewing.
- ◆ **The POWER Switch** turns off the game, but does not reset game variables.

### DIAGNOSTIC CONTROL SWITCHES

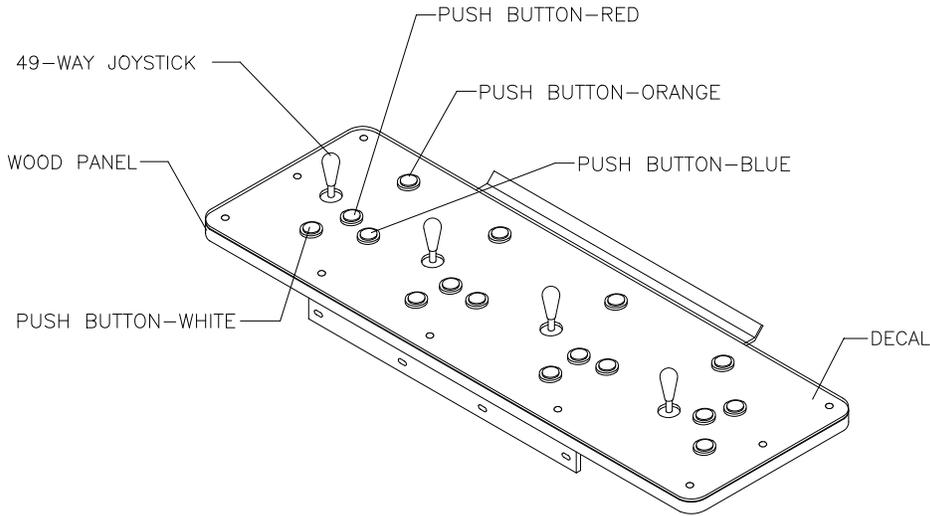
- ◆ **The SERVICE CREDITS Button** allots credits without changing the game's bookkeeping total. SERVICE CREDITS has no function in the menu system.
- ◆ **The TEST MODE Button** causes the game to enter the service menu system. Press the TEST MODE button briefly to run automatic tests. To make game adjustments, press and hold TEST MODE until the Main Menu appears. Within the menu system, TEST MODE assumes another function. There, it selects a menu line item and calls up the item's submenu. The screen displays this submenu.
- ◆ **VOLUME DOWN and VOLUME UP Buttons** set game sound levels. To make minor volume changes, press either button briefly. To make major changes, press and hold a button. In the menu system, VOLUME UP moves the item highlight bar up the menu. VOLUME DOWN moves the item highlight bar downward.

<p><b>NOTICE:</b> You must adjust Attract Mode volume independently of Game Mode volume. For greater profits, increase volume levels to draw attention to this game.</p>
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## PLAYER CONTROLS



**DIAGNOSTIC CONTROL SWITCH LOCATIONS**



**PLAYER CONTROL LOCATIONS**

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## MAINTENANCE

### ◆ Cabinet

Use only non-abrasive cleaners to avoid damaging game graphics. Apply cleaner to a clean cloth or sponge. Wipe the screen clean with this cloth or sponge. *Do not apply cleaner directly on the cabinet!*

### ◆ Control Panel

Dirt or debris on the joysticks or buttons can affect earnings. Apply the cleaner to a clean cloth. Use the cloth to wipe the controls. *Don't apply the cleaner directly to the controls!*

### ◆ Viewing Glass

To clean the glass, you don't need to switch off power to the game. Apply a mild glass cleaner to a clean cloth or sponge. Use this to wipe the viewing glass. *Do not apply the cleaner directly on the glass!* Liquid could drip down into switch or motor circuits and cause erratic game operation.

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## SERVICING

Only qualified service personnel should perform maintenance and repairs. The following product guidelines apply to all game operators and service personnel. Notes, cautions and warnings appear throughout this manual where they apply. Read the SAFETY pages thoroughly before beginning service.

### ◆ Circuit Board Set

The SportStation game computer uses a set of three circuit boards. The three boards include the CPU Board, I/O Board and Video Board. Switch off power to the game. Open the rear door. To expose the circuit boards, remove their perforated metal cover. Carefully note the orientation of the JAMMA connector and other cables. Extract the harness and hard disk drive ribbon cable from the board connectors. Remove circuit board mounting screws. Lift the circuit boards out of the cabinet and set them in a safe place. Use anti-static packaging from new parts to store boards that you won't reinstall.

	<b>CAUTION:</b> Circuit board edge connectors are fragile. Take care when separating boards in the board set. Never jam the board connectors together. Never plug them together on an extreme angle. If necessary, carefully straighten bent pins with a small, grounded flat blade screwdriver. Also, don't touch exposed foil on printed circuit boards. Skin oils are corrosive.
	<b>NOTICE:</b> Avoid damage to game electronics! Turn off game power before servicing circuit boards or any electronic assembly. Never "hot plug" circuit boards.

### ◆ Coin Mechanism

Switch off power to the game. Unlock the coin door and swing it open. To clean or replace a coin mechanism, unlatch and remove it. After reinstallation, ensure that the mechanism seats fully its bracket. Close and lock the release latch, and then close the door. Turn on the game and change the mechanism setup. Test known good and bad coins to verify operation.

### ◆ Coin Meter

Switch off power to the game. Unlock the cash door and swing it open. The coin meter mounts to a metal plate at the bottom the cash vault. Record the meter count before testing or replacement. Remove the plate's four mounting screws, and then remove the plate.

Disconnect the meter wiring harness at the connectors. Remove front screws and slide the meter out. Assure that a protective diode connects across the replacement meter's terminals. The diode prevents driver circuit damage.

## REINSTALLING CIRCUIT BOARD ASSEMBLIES

### ◆ **Hard Disk Drive**

Switch off power to the game. Unlock and remove the rear cabinet door. Remove the perforated metal cover over the game electronics. Disconnect the DC power cable from the hard disk drive. Unplug the ribbon cable from the hard drive. Don't disconnect the cables from the CPU Board. Loosen the drive mounting screws and lift the drive out of its mounting bracket. Remove the screws. Save them for reuse in future hard drive installations. When returning a hard drive to your distributor, pack it in an anti-static bag. Box the drive in approved shipping container 08-8068.



**NOTICE:** Hard disk drives are very fragile! Handle them with care. Do not stack or drop hard disk drives. Keep disk drives away from magnets, heat and vibration.

### ◆ **Joysticks**

Switch off power to the game. Open the player control panel. Mark and disconnect the wiring harness from a joystick. To separate the joystick from the player panel, first remove the joystick shaft. An E-ring secures the shaft. Disengage this E-ring with a small, flatblade screwdriver. Grasp the joystick knob. Extract the stick from the assembly. Then remove 8-32 tamper-resistant (KEPS®) nuts from the corners of the joystick base. Retain fasteners for reassembly.

## ◆ Memory

	<b>CAUTION:</b> Static electricity builds up on your body. This static can damage or destroy sensitive the game circuits. BEFORE touching or handling electronic assemblies, discharge static electricity by touching the electronics mounting plate.
	<b>NOTICE:</b> CPU Board and S/I/O Board chips don't face same direction. When mounting chips on either board, refer only to chips on the same board for reference. Never use the chips on another board for reference.

ROM (Read Only Memory) circuits contain computer operating instructions for this game. Switch off power to the game. Unlock and remove the rear door. Remove the perforated metal cover. Note the ROM chip position. Remove the device with a chip extraction tool. To reinstall a ROM chip, orient the device over its socket. Press the chip firmly to seat pins. *Don't force the chip into the socket.*

## CABINET FRONT VIEW

## EXTERNAL COMPONENTS

## GAME ELECTRONICS

### INTERNAL COMPONENTS

#### ◆ **Monitor Bezel**

Switch off power to the game. Open the control panel. Remove the viewing glass. Lift the bezel up and off the monitor. Set the bezel aside. Clean the labels. Orient the labels right side up, so that players can read them. Reinstall the bezel.

#### ◆ **Viewing Glass**

Switch off power to the game. Open the control panel. Loosen three mounting screws. Slide the black metal strip from the bottom of the glass. Carefully slide the glass from the side grooves. Then lift it clear of the cabinet. Set the glass in a safe place. Clean the glass before reinstalling it.

#### ◆ **Monitor**



**CAUTION:** The video monitor is heavy, with most of the weight toward the front of the assembly. Support the monitor as you remove it from the cabinet.



**WARNING:** The monitor doesn't require isolation from AC line voltage during normal game operation. When operating the monitor outside the cabinet, use *an isolation transformer*. *Connect the transformer between the monitor and line.*

Switch off power to the game. Open the control panel. Remove the viewing glass and monitor bezel. Unlock and remove the rear door. Disconnect the monitor from the wiring harness, remote adjustment board, and ground wires. Remove the fasteners that secure the monitor frame to its mounting panel. Carefully pull the monitor from the cabinet. Set the monitor in a safe place. Remove the remote adjustment board from the cabinet and reconnect it to the monitor before servicing or replacement. Clean the face of the monitor before reinstalling the monitor bezel.

#### ◆ **Power Supply**

Switch off power to the game. Unlock and remove the rear door. Remove the electronics rack and set it aside. Unplug the IEC AC connector from the rear of the supply. Unplug the power wiring harnesses from the back of the supply. Remove two front and two rear screws from the supply. Lift the supply off the power chassis. Slide the supply out of the cabinet.

**Reinstallation.** Verify the line voltage switch setting before reinstalling the power supply. Set the voltage switch to the correct value. Place the supply on the power chassis. Align the chassis mounting holes. Install the four screws and two power connectors. Connect the IEC AC connector to the rear of the supply. Replace the electronics rack. Plug the power wiring harnesses into the back of the supply. Replace and lock the rear door. Switch on power to the game.

#### ◆ **Speakers**

Switch off power to the game. The full-range speakers are mounted behind grilles at the top of the player panel. Grilles and speakers come out from the front. Remove the screws and set the grilles aside. To avoid damaging a speaker, remove upper mounting screws first, and replace them last.

Remove the speakers from the enclosure just enough to expose the terminals. Label and disconnect the wires. Refer to the Wiring Diagram (Chapter Five) for speaker wiring information. *Don't use excess force when removing or tightening screws threaded into plastic or particle board.*