



OPERATOR'S MANUAL 42" SITDOWN





For Parts or Service contact your local Distributor or: Betson Enterprises 303 Paterson Plank Road Carlstadt, New Jersey



Main Phone: (201) 438-1300

Toll Free Phone: (800) 524-2343

Part Phone: (800) 828-2048

CAUTION:

- The specifications of this product are subject to change without notice for reasons such as performance.
- The content of this game, its main devices and design are protected under each federal law concerning patent, copyright and other intellectual properties.
- Unauthorized reproduction of this document or any of its contents is strictly forbidden.

Safety Instructions

Safety instructions apply to operators and service personnel. Read these instructions before preparing the video game machine for play. Other safety instructions appear throughout this manual.

WARNING: TRANSPORTING THE VIDEO GAME MACHINE.

The video game machine contains glass and fragile electronic devices. Use appropriate care when transporting . Avoid rough handling when moving the video game machine.

WARNING: DISCONNECT POWER.

Always turn the power OFF and unplug the video game machine before attempting service or adjustments unless otherwise instructed. Installing or repairing components with the power switched ON can damage the components and void the warranty.

WARNING: GROUND GAMES.

Avoid electrical shock! Do not plug in the video game machine until you have inspected and properly grounded it. Only plug into a grounded, three-wire outlet. Do not use a "cheater" plug, or cut off the ground pin on the line cord.

WARNING: AVOID ELECTRICAL SHOCK.

This video game machine does not utilize an isolation transformer. Internal cabinet AC is not isolated from the external AC line.

WARNING: HANDLE FLOURESCENT TUBES WITH CARE.

If you drop a fluorescent tube and it breaks, it will implode! Shattered glass can fly eight feet or more from the implosion.

WARNING: CHECK POWER SELECTOR, LAMP.

Set the 115/230 VAC selector switch on the power supply for the correct line voltage on the installation site. Verify that the fluorescent lamps, 12V power supply, transformer and PC voltage selector switch are rated/set for the proper line voltage.

WARNING: USE PROPER FUSE.

Avoid electrical shock! Replacement fuses must be identically rated to the original fuse!

WARNING: ATTACH CONNECTORS PROPERLY.

Be sure all connectors mate properly. If connectors do not slip in easily, do not force them. Connectors are often keyed and only connect one way. Check for correct orientation.

WARNING: USE EXTREME CARE WHEN HANDLING PC.

The PC contains sensitive components such as a hard drive. Do not handle roughly. Call your distributor before servicing PC internal components. Ask about warranty information as it relates to the PC.

WARNING: HAZARD TO EPILEPTICS.

A very small portion of the population has a condition which may cause them to experience epileptic seizures or have momentary loss of consciousness when viewing certain kinds of flashing lights or patterns that are present in our daily environment. These persons may experience seizures while watching some kinds of television pictures or playing certain video games. Peoples who have not had any previous seizures may nonetheless have an undetected epileptic condition.

If you or anyone in your family has experienced symptoms linked to an epileptic condition (e.g., seizures or loss of awareness), immediately consult your physician before using any video games.

We recommend that parents observe their children while they play video games. If you or your child experience the following symptoms: dizziness, altered vision, eye or muscle twitching, involuntary movements, loss of awareness, disorientation, or convulsions, DISCONTINUE USE IMMEDIATELY and consult your physician.



PRODUCT SPECIFICATIONS

OPERATING REQUIREMENTS

ELECTRICAL POWER

Domestic 120VAC @ 60 Hz, 5 amps Foreign 240VAC @ 50Hz, 2.5 amps

TEMPERATURE

32° F to 100°F (0°C to 38°C)

HUMIDITY

Not to exceed 95% relative humidity.

42 INCH SITDOWN MODEL MAIN CABINET DIMENSIONS (INSTALLED)

Height = 83.09 inches (211.05 cm) Depth = 65.92 inches (167.43 cm) Width = 41.31 inches (104.93 cm)

42 INCH SITDOWN MODEL MAIN CABINET SHIPPING WEIGHT and DIMENSION

Weight = 572 lbs. (259.45 Kg)

Game Container = W 43 inches(109 cm) x D 37 inches (93.98 cm) x H 87 inches (220.98 cm) Seat Container = W 21.5 inches (54.61 cm) x D 37 inches (93.98 cm) x H 53.25 inches (135.26 cm)

INSPECTION AND INSTALLATION

WARNING: Use extreme care when moving or servicing the game cabinet. Don't plug in the game until you have read this manual. If the line cord is damaged, it must be replaced by a similar cord available from the manufacturer or service agent.

Please check the following after the game has been removed from its shipping crate and placed in a suitable play or service area.

Make sure that the game cabinet is level. Adjust the casters as needed.

- 1. Check the AC line cord for any visible signs of damage to the plug or line cord insulation.
- 2. Check for possible shipping damage to the following:
 - Player interfaces: steering wheel, buttons, keypad and throttle assembly
 - Seat assembly
 - Monitor bezel
 - Cabinet backdoor
 - Cabinet coin door
 - Cabinet and seat decals
- 3. Remove the coin door key from the coin return chute.
- 4. Open the top coin door and locate the key for the backdoor and the cashbox.
- 5. Locate hardware kit: tamper proof tool kit

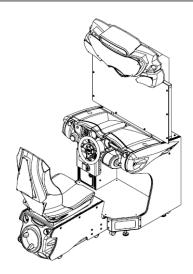
crossover network cable

line cord

seat hardware fasteners (8 sets)

- 6. Remove the backdoor the backdoor from the cabinet and visually inspect the electronic components.
- 7. Verify that all connectors are secure and that the bottom of the cabinet is free of loose objects which may have possibly come loose during shipping.

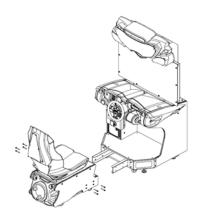
CAUTION: Access to back of the games should be limited to service personnel only! Allow minimum clearance between back of game and wall structure for cable and ventilation while preventing non-authorized access. Maximum clearance should be 6 inches (15 cm), in accordance with local code or whichever is less.



WARNING: The cabinet is top heavy. Install only on level surface. Use the leg levelers to make sure the cabinet and seat are stable. Do not push against plastic parts during movement.

- 1. Roll the cabinet and seat to the intended location and lower the leg levelers until both are equal height and stable.
- 2. Reach inside the base of the cabinet remove the bolts to fasten a mounting rail to the cabinet and set aside. Individually pull the rail out, flip it end over end and reinsert it. Fasten the rail to the inside of the cabinet with bolts until finger tight; some movement is required in the mounting rails to align holes with seat pedestal assembly. Repeat for the mounting rail on the other side. See diagram.



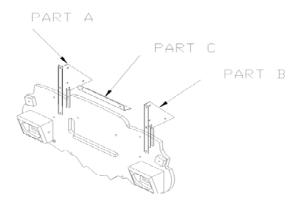


- 4. Roll the pedestal near the cabinet and align the opening in the pedestal with the ends of the rails. Slide the pedestal forward onto the rails leaving enough space to attach the wiring harness. Mate each cable connector and press firmly to seat the contacts. Ensure no wires are pinched during the pedestal attachment. Fasten in place with the ½" X 20 tamper resistant screws and large flat washers provided.
- 5. Tighten the screws firmly with the wrench provided, and then tighten the bolts for the mounting rails.
- 6. Adjust all levelers until both cabinet and seat are flush and parallel with each other. Inspect for pinched wires before firmly tightening the remaining fasteners to attach the two pieces as one.

Marquee Setup Procedure

Note: The marquee needs to be raised during installation. This procedure should be performed by two individuals able to lift heavy objects above their head. Use a step stool to safely get to the proper height.

- 1. Remove screws securing parts A and B to the monitor cabinet.
- 2. Raise the marquee and install two bolts to secure the marquee to part C.
- 3. Re-install the bolts to part A and B using the new mounting holes.



Game Networking

NOTICE: To link two games together, use the crossover cable provided in the spare parts bag. Use of a cable other than the one shipped with the game could void warranty or cause games not to link. Use network cables which are at least CAT5 grade.

Networking Considerations

Each H2O game comes with a crossover network cable for linking 2 cabinets. When linking 3 or more H2O cabinets, a network hub (not included) must be installed, and network patch cables (not crossover cables) are required. These patch cables are not shipped with the game and must be purchased separately.

Take care to protect exposed game wiring from general foot traffic around the game. Use a conduit or wire way to protect the cables as needed.

Please mark linking cables for your game if other such cables are in the vicinity to avoid confusion. Network cables are not marked or coded.

Avoid routing the network cables near sources of heat, moisture or electrical energy such as neon lights, compressor motors, transformers etc.

Two Game Networking Setup

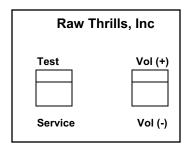
- 1. Remove the network cable from the spare parts bag inside the cashbox.
- 2. Connect each end of the cable to network jack behind each PC.
- 3. Neatly route the cable through the notch on the back of the cabinet.
- 4. Reset both games simultaneously and verify that link is successful. If not, refer to *Network Adjustment* section of the manual to make sure that each unit is assigned a unique game ID. Make sure that the network cable is connected properly and secured.

Three or More Game Networking Setup

- 5. Connect a network patch cable to each PC's network jack.
- 6. Connect the other end of the cable to network to a network hub. Make sure that network hub is installed according to manufacturer instructions.
- 7. Neatly route the cable through the notch on the back of the cabinet and secure the back door.
- 8. Reset all games simultaneously and verify that link is successful. If not, refer to *Network Adjustment* section of the manual to make sure that each unit is assigned a unique game ID. Make sure that each network cable is connected and secured properly.

SETUP AND TEST MENU

Locate the *Service Button Panel*. The Service Button Panel is made up of two rocker switches. Simply press the side of the switch indicated by the function you want to activate. It is mounted inside the coin door area on top of the cash box vault. Press the **TEST** button to access the **Test Menu**.



Menu Navigation:

Button	Action
Test or Keypad (#)	Enter Operator Screen/Select Item
Service or Keypad (*)	Exit Menu
Vol. (+) or Keypad (8)	Scroll up thru Menu items
Vol. (-) or Keypad (0)	Scroll down thru Menu items

MAIN MENU

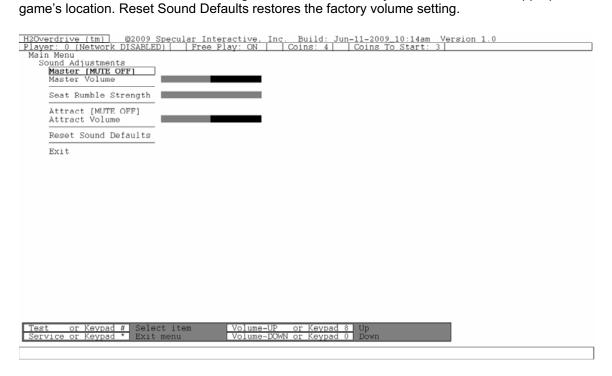
The **Test Main Menu** appears when the **TEST** button is pressed.



NOTICE: New settings are automatically saved upon exiting the adjustment menu. Exit the test menu normally by using the Service or Keypad (*). If power to the game is interrupted while making adjustments to the game, you may need to reenter the new settings again.

Sound Menu

From the *Main Menu*, select *Sound* and enter to view volume adjustment options. Seat Rumble Strength is a function of the sub-woofer volume and how strong it vibrates the seat. Adjust Attract Volume to appropriate level best suited for the game's location. Reset Sound Defaults restores the factory volume setting.



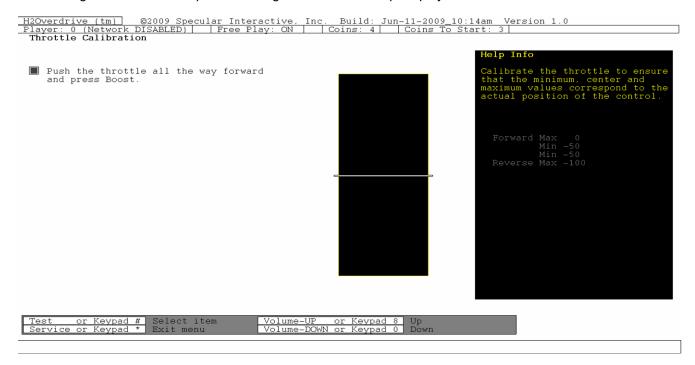
Calibration

From the Main Menu select and enter Calibration. Select operation: Throttle or Wheel Calibration.



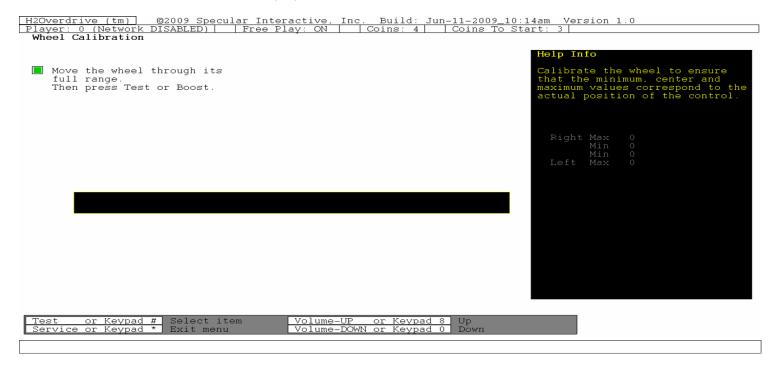
Throttle Calibration

From the *Calibration Menu* select and enter **Throttle Calibration**. The throttle controls the speed as well as forward and reverse direction of the boat. It is also key in achieving jump tricks and maneuvers. Follow the instruction on screen for successful calibration. It is important to calibrate game controls to compensate for mechanical wear and tear. A properly calibrated game will achieve optimal earnings and increased repeat play.



Wheel Calibration

From the *Calibration Menu* select and enter **Wheel Calibration**. The steering wheel controls the left/right direction of the boat. Follow the direction on the screen for proper wheel calibration.



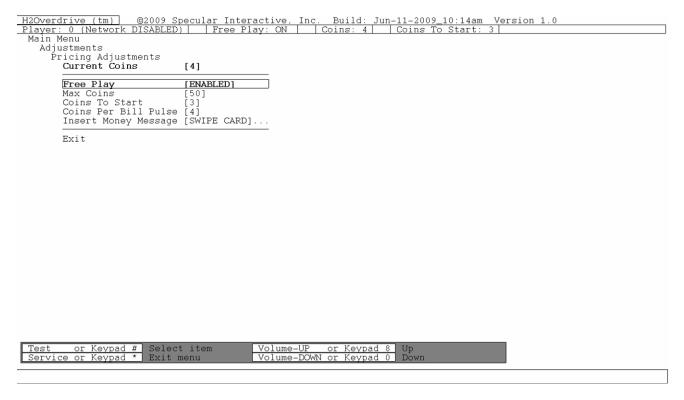
Adjustments

From the *Main Menu* select and enter *Adjustments*. Operator adjustable settings can be found in the sub-menu. Scroll and select the appropriate item within each sub-menu. Make changes to game settings as needed. Changes are automatically saved when you exit.



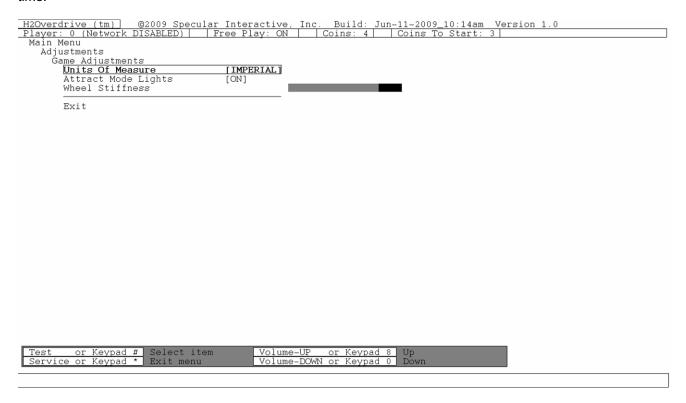
Pricing Adjustments

From the *Adjustments Menu* select and enter *Pricing Adjustments*. Game pricing will be overridden if *Free Play* is set to [ENABLE]. Select the correct "Insert Money Message" based on payment system at location.



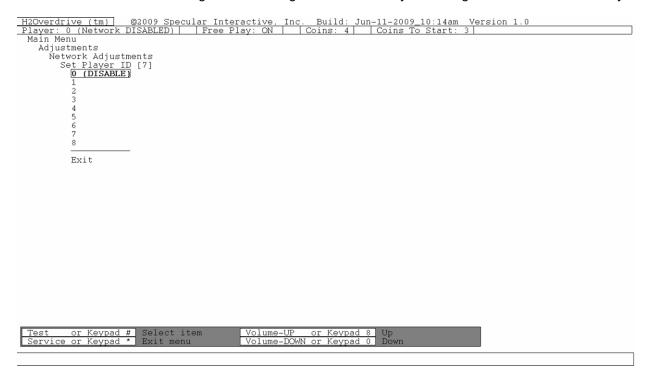
Game Adjustments

From the *Adjustments Menu* select and enter *Game Adjustments*. Units Measure refers to Speed in miles (Imperial) or kilometers (Metric) per hour. Attract Mode Lights refers to the LED clusters activity when game is not in play. Wheel Stiffness refers to the amount of wheel centering force. Move the wheel left/right while adjusting the wheel strength in real time.



Network Adjustments

From the *Adjustments Menu* select and enter *Network Adjustments*. Assign a unique Player ID for each game attached to the network. If two games are assigned the same Player ID the games will not link correctly.



Diagnostics

From the *Main Menu* select and enter *Diagnostics*. All input and output functions of the game can be functionally tested by selecting and performing the appropriate test function.



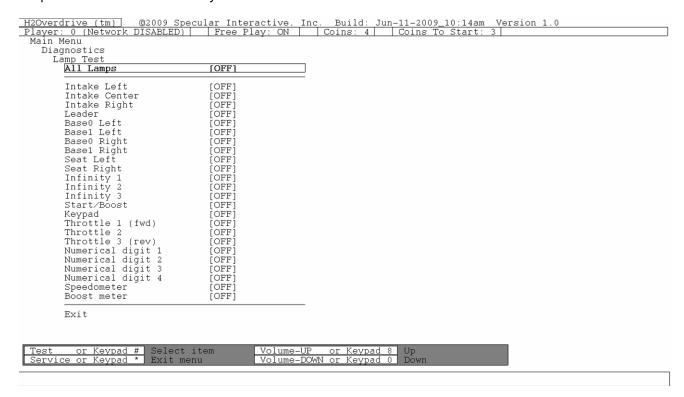
Switch Test

From the *Diagnostics Menu* select and enter *Switch Test*. To aid in troubleshooting, an audible tone can be heard when a switch is activated. Switches that have been activated are also shown in a different shade. Press and hold SERVICE to Exit.



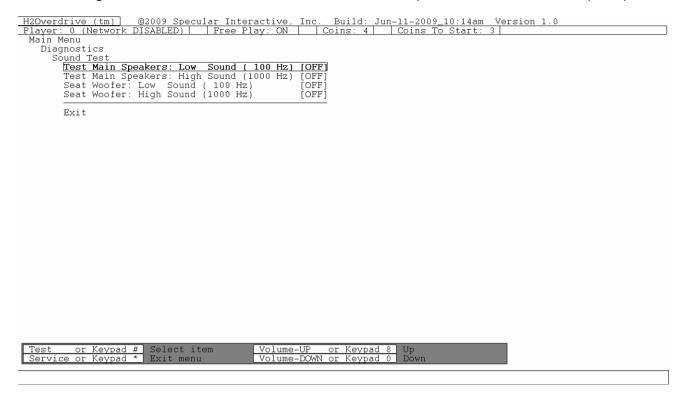
Lamp Test

From the *Diagnostics Menu* select and enter *Lamp Test*. Lamps increase the overall visual appeal of the game. They help to attract players as well as enhance the their playing experience. Periodically test each controlled lamp. Turn on all lamps or control them individually.



Sound Test

From the *Diagnostics Menu* select and enter *Sound Test*. Main Speakers refer to the two marquee speakers.



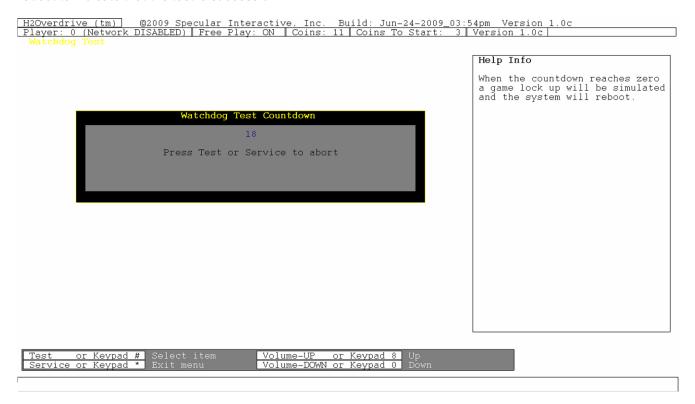
LCD Test

From the *Diagnostics* menu, select and enter *LCD Monitor Tests*. Verify correct color and purity for Red, Blue and Green screens. Check for proper graphics card and LCD controller synch using the inversion test. Follow the direction on the screen.



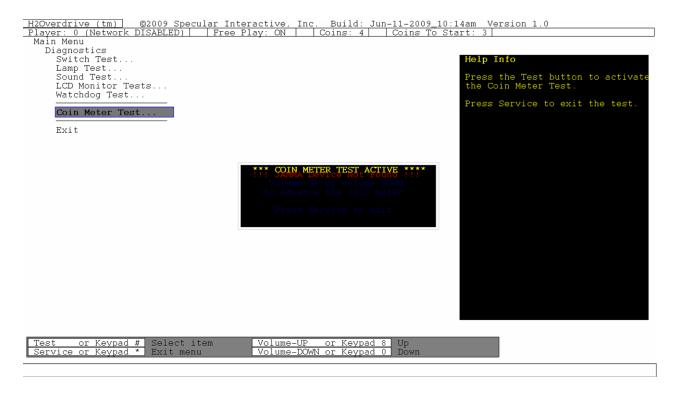
Watchdog Test

From the *Diagnostics Menu* select and enter *Watchdog Test*. The watchdog circuit allows for the PC to automatically re-boot in the event of a lock-up. This is an important feature that allows the game to be installed in unattended locations. The game will reboot to indicate that the test is successful.



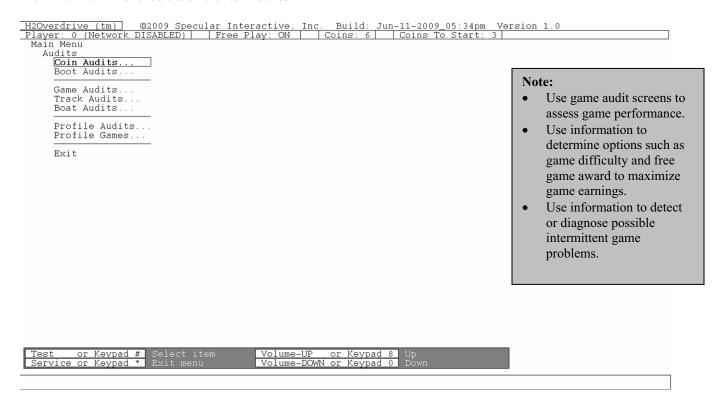
Coin Meter Test

From the *Diagnostics Menu* select and enter *Coin Meter Test*. Advance the meter once using by pressing Test. Press the Service Button to exit the test.



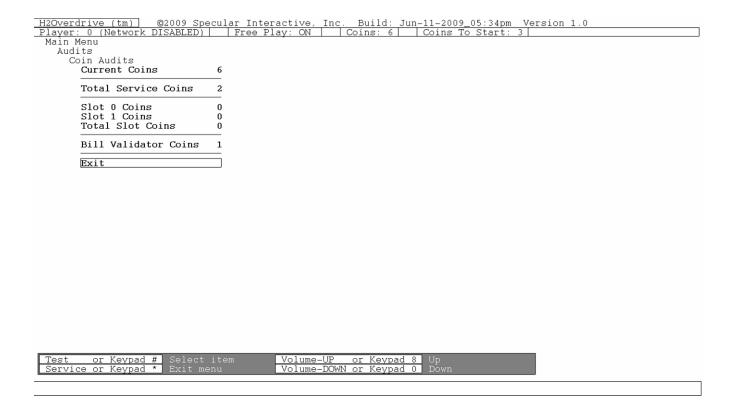
Audits

From the Main Menu select and enter Audits.



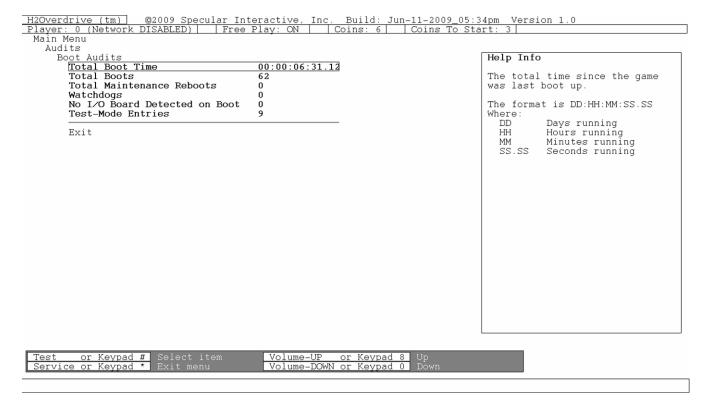
Coin Audits

From the Audit Menu select and enter Coin Audits.



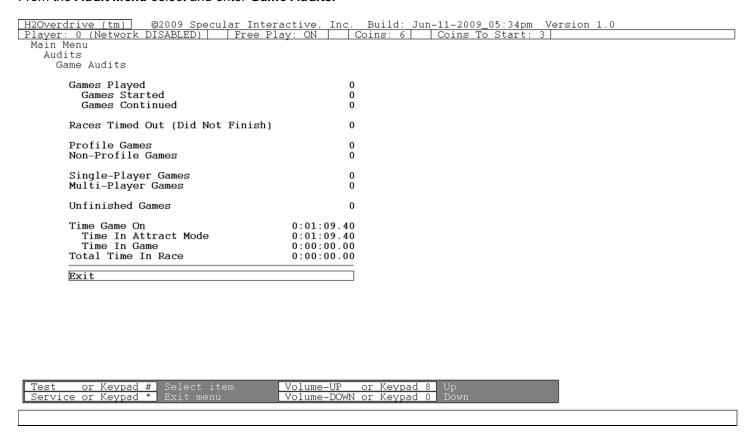
Boot Audits

From the Audit Menu select and enter Boot Audits.



Game Audits

From the Audit Menu select and enter Game Audits.

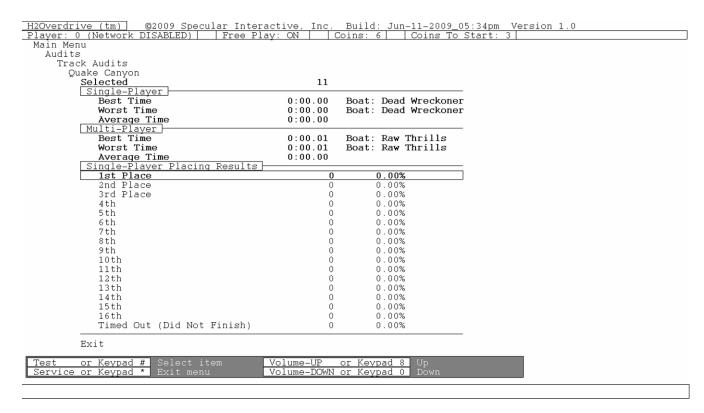


Track Audits Summary

From the *Audit Menu* select and enter *Track Audits Summary*. H2Overdrive (tm) @2009 Specular Interactive, Inc Player: 0 (Network DISABLED) | Free Play: ON | Main Menu Jun-11-2009_05:34pm | Coins To Start: Build: Version 1 0 Audits Track Audits Track Audits Summary Single-Player Races Quake Canyon Temple Of Flume Hong Kong Buoy **0:00:00.00** 0:00:00.00 0:00:00.00 0 0 0 0 Frozen Tundra Frozen Tundra Backward 0:00:00.00 Ω Ω Ω Ω 0:00:00.00 Õ Wild America Down Underdrive 0:00:00.00 0 0 0 0 0:00:00.01 9 0 0 0 0:00:00.00 Down Underdrive Backward London Underground 0:00:00.00 0 0 0 Multi-Player Races Total Race Time-|--Selected-0:00:00:00 | 8 0:00:00:00 | 0 Track Name --Time Outs-Quake Canyon Temple Of Flume Hong Kong Buoy Frozen Tundra Frozen Tundra Backward 0:00:00.00 Ω Ω 0 0 0:00:00.00 Wild America Down Underdrive 0:00:00.00 0:00:00.04 0 Ω 39 Down Underdrive Backward London Underground 0:00:00.00 0 Ω Exit or Keypad # Volume-UP or Keypad 8 Test

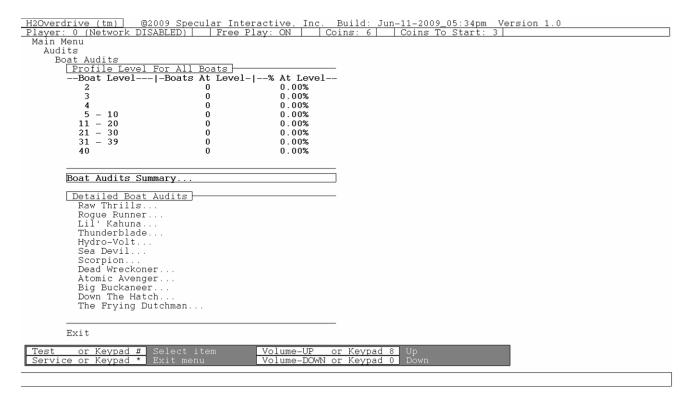
Detailed Track Audits

From the Track Audit Summary Menu select and enter a specific track for more detailed audit information.



Boat Audits

From the Audit Menu select and enter Boat Audits.



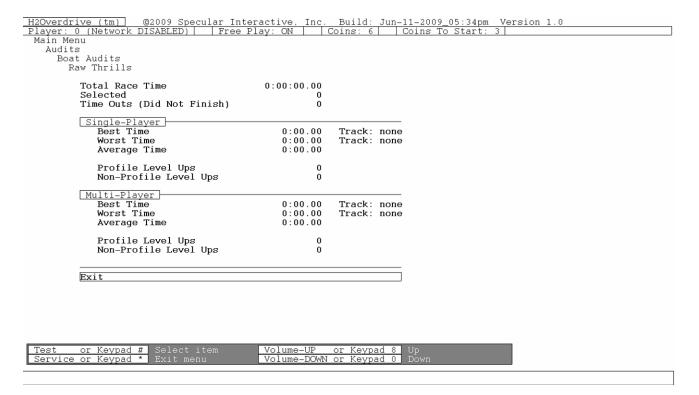
Boat Audits Summary

From the Boat Audit Menu select and enter Boat Audits Summary.

20verdrive (tm) @2009 Specu laver: 0 (Network DISABLED)	lar Interactive, I			05:34pm Vers	sion 1.0	
<u>layer: U (Network DISABLED) </u> Main Menu	Free Play: ON	COINS: 6	Coins ic	Start: 3		
Main Menu Audits						
Boat Audits						
Boat Audits Summary						
Single-Player Races						
Name	-Total Race Time-I	Coloated	1at I	Finiahoa	Timo Outa	
Raw Thrills	0:00:00.00 I	0	0	0	0	
Roque Runner	0:00:00.00	0	0	0	0	
Lil' Kahuna	0:00:00.00	0	0 1	0	i o	
Thunderblade	0:00:00.00	0	0 1	0	0	
Hydro-Volt	0:00:00.00	0	0 1	0	0	
Sea Devil	0:00:00.00	0	0 1	0	0	
Scorpion	0:00:00.00	0	0	0	0	
Dead Wreckoner	0:00:00.00	0	0 1	0	0	
Atomic Avenger	0:00:00.00	0	0 1	0	0	
Big Buckaneer	0:00:00.00	0	0 1	0	0	
Down The Hatch	0:00:00.00	0	0 1	0	0	
The Frying Dutchman	0:00:00.00	ň	0	0	0	
Multi-Player Races	0.00.00.00	0	١ ٠	0		
- Name						
Raw Thrills	0:00:00.00	0	0	,		
Roque Runner	0:00:00.00	0	0			
Lil' Kahuna	0:00:00.00	0	0			
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Scorpion	0:00:00.00	0	0			
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Big Buckaneer	0:00:00.00	0	0			
Down The Hatch	0:00:00.00	0	0			
The Frying Dutchman	0:00:00.00	0	0			
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Exit						
Test or Keypad # Select it	em Volume-U	JP or Keypad	8 Up			
Service or Keypad * Exit menu		OWN or Keypac				
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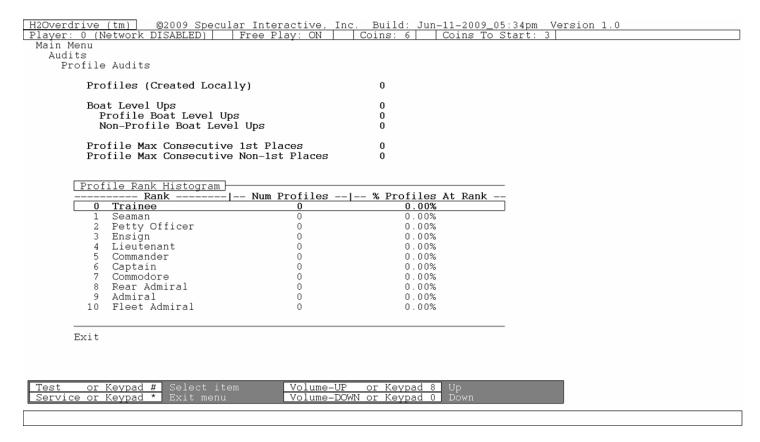
Detailed Boat Audits

From the Boat Audit Menu select and enter Detailed Boat Audits. Select a boat to view more details.



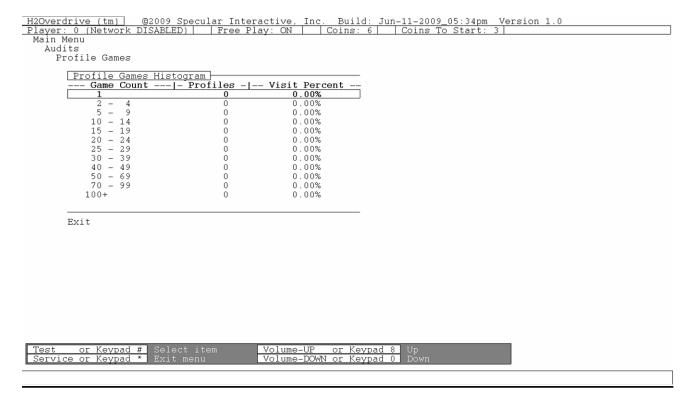
Profile Audits

From the Audit Menu select and enter Profile Audits.



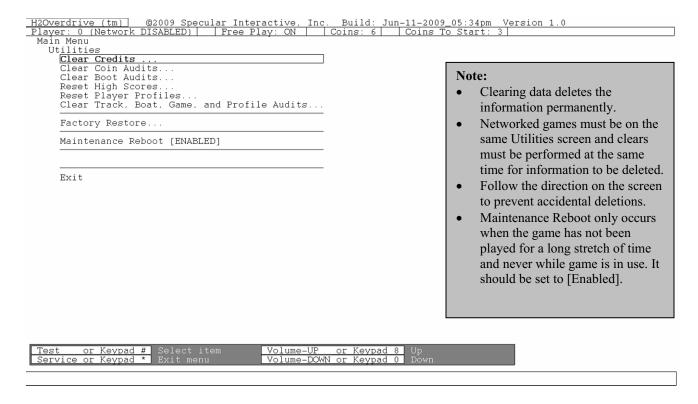
Profile Games Audit

From the Audit Menu select and enter Profile Games.



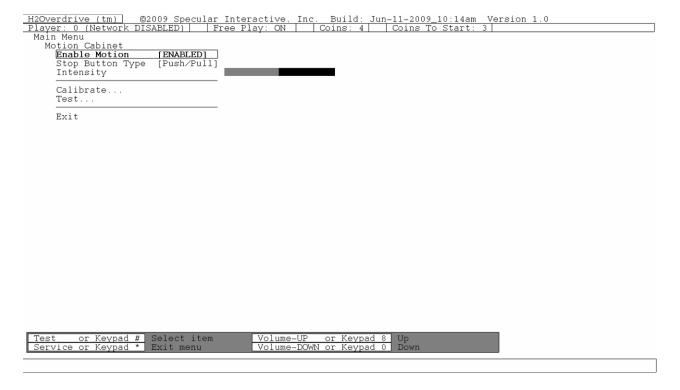
Utilities

From the *Main Menu* select and enter *Utilities*. It is often a good idea to clear audit information when a game has been moved to a new location or after a change in setting like price, difficulty level or similar.



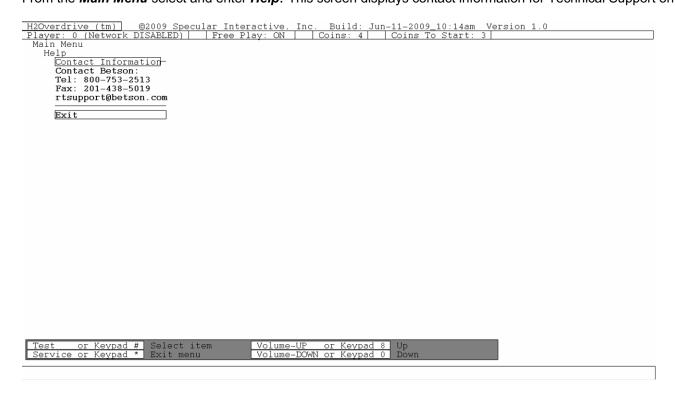
Motion Cabinet

From the Main Menu select and enter Motion Cabinet. This utility is supported only on full motion version of H2O.



<u>Help</u>

From the *Main Menu* select and enter *Help*. This screen displays contact information for Technical Support on H2O.



Hard Drive Recovery

CORRUPT FILE SCREEN. If you see a blue screen indicating an error message or if the game does not load successfully, your VIDEO GAME MACHINE harddrive may contain corrupt files. One solution may be to perform a hard-drive recovery process.

SYMPTOMS of a bad hard drive may include:

- The game fails to finish loading.
- The VIDEO GAME MACHINE reports an error when booting
- The VIDEO GAME MACHINE prompts you to insert a boot DVD.
- Erratic Game Mode or Attract Mode.

NOTICE. H2Overdrive ships with a recovery DVD. Hard drives occasionally fail. If your disk fails, restore hard drive data by following this procedure. Avoid rough handling of the computer or DVD. Check the Troubleshooting Guide in this document.

From the back of the VIDEO GAME MACHINE, check the I/O board. The I/O board must be powered and be connected to the computer. A USB cable connects the computer and the I/O board.

- 1. Verify that the I/O Board has power.
- 2. To access the computer, open the coin door.
- 3. Open the DVD tray by pressing the button on the DVD drive.
- 4. Insert the recovery disk into the tray.
- 5. Close the DVD tray by pressing the button on the DVD drive.
- 6. Turn-off the VIDEO GAME MACHINE via the main AC switch...
- 7. Turn-on the VIDEO GAME MACHINE via the main AC switch. The disk recovery process begins automatically. Recovery may take 30 to 40 minutes.
- 8. Look for a message at the bottom of the screen. When the recovery is over, the message prompts you to remove your disk. Open the DVD tray by pressing the DVD drive button. Remove the recovery disk. Store it safely.
- 9. Turn off the VIDEO GAME MACHINE via the main AC switch. Wait approximately 10-15 seconds.
- 10. Turn on the VIDEO GAME MACHINE via the main AC switch.
 - **© CAUTION.** During the following process, don't interrupt power or reset the game!
- 11. The VIDEO GAME MACHINE will go through a first-boot initialization procedure. This will take a few minutes, after which the VIDEO GAME MACHINE will automatically enter the throttle calibration mode.

BIOS Settings / Power Management

NOTICE. The H2Overdrive PC ships with the correct BIOS settings. Making BIOS changes may adversely affect the VIDEO GAME MACHINE.

The BIOS settings along with the functionality of the FUSE/WD board (p/n 500-00012-01) allows the main VIDEO GAME MACHINE to power up correctly. The BIOS settings need to match the settings listed below. Otherwise the VIDEO GAME MACHINE will not properly recover from being turned-off, power failure, or brownout. It is also noteworthy that the FUSE/WD board makes the power switch on the case of the computer not function as one would expect. **Never use the power switch on the computer**. Proper power control for the VIDEO GAME MACHINE is performed by using the main AC power switch located on the lower backside of the VIDEO GAME MACHINE.

BIOS Procedure

- 1. Turn the game off.
- 2. Connect a USB keyboard to the game PC.
- 3. While holding the [F2] key, turn on the main power switch of the VIDEO GAME MACHINE. The BIOS menu screen will appear. For a Dell Computer, verify the settings listed in the following table on the next page.
- 4. To save and exit, follow the instructions on the BIOS screen. The computer will reset and load the game.

LEVEL	ITEM	VALUE
		1. CD/DVD/CD-RW DRIVE
		2. USB-ZIP
		3. USB-DEVICE
SYSTEM	BOOT SEQUENCE	4. HARDDRIVE
		5. USB-FDD
		6. USB-CDROM
		7. NIC
		8. DISKETTE DRIVE
DRIVES	DISKETTE DRIVE	USB
DRIVES	DRIVE 0:	SATA-0: ON
DRIVES	DRIVE 1:	SATA-1: ON
DRIVES	SMART REPORTING	OFF
ONBOARD DEVICES	INTEGRATED NIC	ON
ONBOARD DEVICES	INTEGRATED AUDIO	ON
ONBOARD DEVICES	USB CONTROLLER	ON
ONBOARD DEVICES	REAR TRIPLE USB	ON
ONBOARD DEVICES	REAR DUAL USB	ON
ONBOARD DEVICES	FRONT USB	ON
ONBOARD DEVICES	LPT PORT MODE	EPP
ONBOARD DEVICES	LPT PORT ADDRESS	378H
ONBOARD DEVICES	SERIAL PORT #1	COM1
VIDEO	PRIMARY VIDEO	ONBOARD/CARD
VIDEO	VIDEO MEMORY SIZE	16MB
PERFORMANCE	HDD ACOUSTIC MODE	BYPASS
SECURITY	ADMIN PASSWORD	NONE
SECURITY	SYSTEM PASSWORD	NONE
SECURITY	DRIVE 0 PASSWORD	NONE
SECURITY	DRIVE 1 PASSWORD	NONE
SECURITY	PASSWORD CHANGES	UNLOCKED
SECURITY	CHASSIS INTRUSION	OFF
POWER MANAGEMENT	AC RECOVERY	ON
POWER MANAGEMENT	AUTO POWER-ON	OFF
POWER MANAGEMENT	LOW POWER MODE	OFF
POWER MANAGEMENT	REMOTE WAKE-UP	OFF
POWER MANAGEMENT	COOL AND QUITE	OFF
POWER MANAGEMENT	SUSPEND MODE	S3
MAINTEANCE	ASF MODE	OFF
MAINTEANCE	FAST BOOT	ON
POST BEHAVIOR	NUMLOCK KEY	ON
POST BEHAVIOR	POST HOTKEYS	SETUP & BOOT MENU
POST BEHAVIOR	KEYBOARD ERRORS	DO NOT REPORT

Troubleshooting Guide

• WARNING. Remove all power and disconnect AC line cord to VIDEO GAME MACHINE before servicing! Service performed by qualified service technician only. With power on do not connect or disconnect cables or connectors, damage to the VIDEO GAME MACHINE will occur.

VIDEO GAME MACHINE Fails To Power-up

The VIDEO GAME MACHINE will be in this failure mode when either the main AC power has failed, been disconnected, or the computer has failed to turn-on. The computer provides +5VDC and +12VDC for the VIDEO GAME MACHINE. Turning on the computer is controlled by the FUSE/WD board, p/n 500-00012-01.

- 1. Verify the VIDEO GAME MACHINE power switch is on.
- 2. Verify the AC line cord is plugged into a functional AC outlet.
- 3. Verify the AC outlet is the correct voltage for the VIDEO GAME MACHINE.
- 4. Verify the VIDEO GAME MACHINE is set to the correct voltage. There is a voltage switch on the computer that needs to be set correctly. If this switch is set incorrectly and the VIDEO GAME MACHINE has been powered, damage to the computer may have occurred.
- 5. Verify the main AC power fuse for the VIDEO GAME MACHINE. This can be found on the lower back side of the VIDEO GAME MACHINE by the main power switch. If a fused failed, examine the VIDEO GAME MACHINE for a fault condition and repair the condition before replacing the fuse. For Continued protection, replace the fuse with identical UL rated fuse.
- 6. Verify the fuses on the FUSE / WD board, p/n 500-00012-01. These fuses protect the +5VDC and +12VDC power rails of the VIDEO GAME MACHINE. If a fused failed, examine the VIDEO GAME MACHINE for a fault condition and repair the condition before replacing the fuse. For Continued protection, replace the fuse with identical UL rated fuse.
- 7. Verify cable connectors inside the VIDEO GAME MACHINE. Look for cable connectors that are loose or not connected.
- 8. Contact _____ for additional service. You may have a failed computer or FUSE/WD board.

VIDEO GAME MACHINE Displays "NO VIDEO" Message On The Video Monitor

The VIDEO GAME MACHINE will display this message when the video display is powered but the video monitor has no valid video signal.

- Verify the VIDEO GAME MACHINE is set to the correct voltage. There is a voltage switch on the computer that needs to be set correctly. If this switch is set incorrectly and the VIDEO GAME MACHINE has been powered, damage to the computer may have occurred.
- 2. Verify cable connections inside the VIDEO GAME MACHINE, including the video and power cables of the computer, I/O board, FUSE/WD board and monitor.
- Verify the fuses on the FUSE / WD board, p/n 500-00012-01. These fuses protect the +5v and +12v power rails of the VIDEO GAME MACHINE. If a fused failed, examine the VIDEO GAME MACHINE for a fault condition and repair the condition before replacing the fuse. Replace fuse with identical UL rated fuse.
- 4. Verify the I/O board has power.
- 5. Verify the FUSE/WD board has power. The +5VDCSTBY LED indicator should be on.
- 6. Verify the FUSE/WD board is running. There is a green LED indicator that should be blinking.
- 7. Contact _____ for additional service. You may have a failed computer, FUSE/WD board or I/O board.

VIDEO GAME MACHINE Game Play is Slow, Freezes, or Resets.

Numerous items can cause game play to exhibit freezing or slow play. Typical failure modes include excessive heat, corrupt drive, or failing hardware.

- 1. Verify that the security dongle is attached to a USB port of the computer.
- 2. Verify cable connections inside the VIDEO GAME MACHINE. Verify the USB cable that connects the I/O board to the computer is securely attached.
- 3. Verify that the VIDEO GAME MACHINE is not running excessively hot. Verify that the cooling fan at the top of the VIDEO GAME MACHINE is running and not obstructed. The back of the VIDEO GAME MACHINE must be at least one foot away from a wall in order to allow the vents on the VIDEO GAME MACHINE to breathe.
- 4. Verify that the computer is not running excessively hot. Verify that the computers cooling fans are running.
- Verify the drive. This can be done via the Operators Menu. The drive can be re-imaged, by inserting the DVD that was included with the VIDEO GAME MACHINE. See '<u>Drive Recovery Procedure</u>' for instructions.
- 6. Verify that the games +5VDC +12VDC power rails are within +/- 5% tolerance.
- 7. Incorrect lamps in the coin door can cause the VIDEO GAME MACHINE to reset. Verify that the bulbs are 12 volt DC rated.

8.	Contact	for additional se	rvice

VIDEO GAME MACHINE Displays No Video On The Video Monitor

The VIDEO GAME MACHINE will exhibit this failure when either the VIDEO GAME MACHINE is not powered, the monitor is not powered, the monitor is not correctly adjusted or the video monitor has failed.

- 1. Verify the VIDEO GAME MACHINE has powered-up. If not see '<u>VIDEO GAME MACHINE Fails To</u> **Power-**up' in this troubleshooting section for more details.
- 2. Verify the cable connectors inside the VIDEO GAME MACHINE, paying close attention to the power and video signal cables of the video monitor.
- 3. Verify the video monitor has AC power.
- 4. Verify the contrast and brightness settings of the monitor. Make sure they are not set too low.
- 5. Contact _____ for additional service. You may have a failed monitor.

VIDEO GAME MACHINE Has No Sound

If the game is running and there is no sound.

- Verify that the audio levels are set to acceptable levels. This can done through the *Diagnostic Menu System*.
- 2. Verify the cable connections inside the VIDEO GAME MACHINE. Ensure that the audio cable from the computer is connected to the I/O board.
- 3. Verify the speaker cable is connected.
- 4. Verify the fuses on the FUSE / WD board, p/n 500-00012-01. These fuses protect the +5v and +12v power rails of the VIDEO GAME MACHINE. If a fused failed, examine the VIDEO GAME MACHINE for a fault condition and repair the condition before replacing the fuse. Replace fuse with identical UL rated fuse.
- 5. Verify the I/O board has power.
- 6. Contact _____ for additional service. You may have a failed audio system.

VIDEO GAME MACHINE Monitor Displays 'MISSING I/O'

If the computer is unable to communicate with the I/O board, the 'Connect I/O' message will be displayed in the video display.

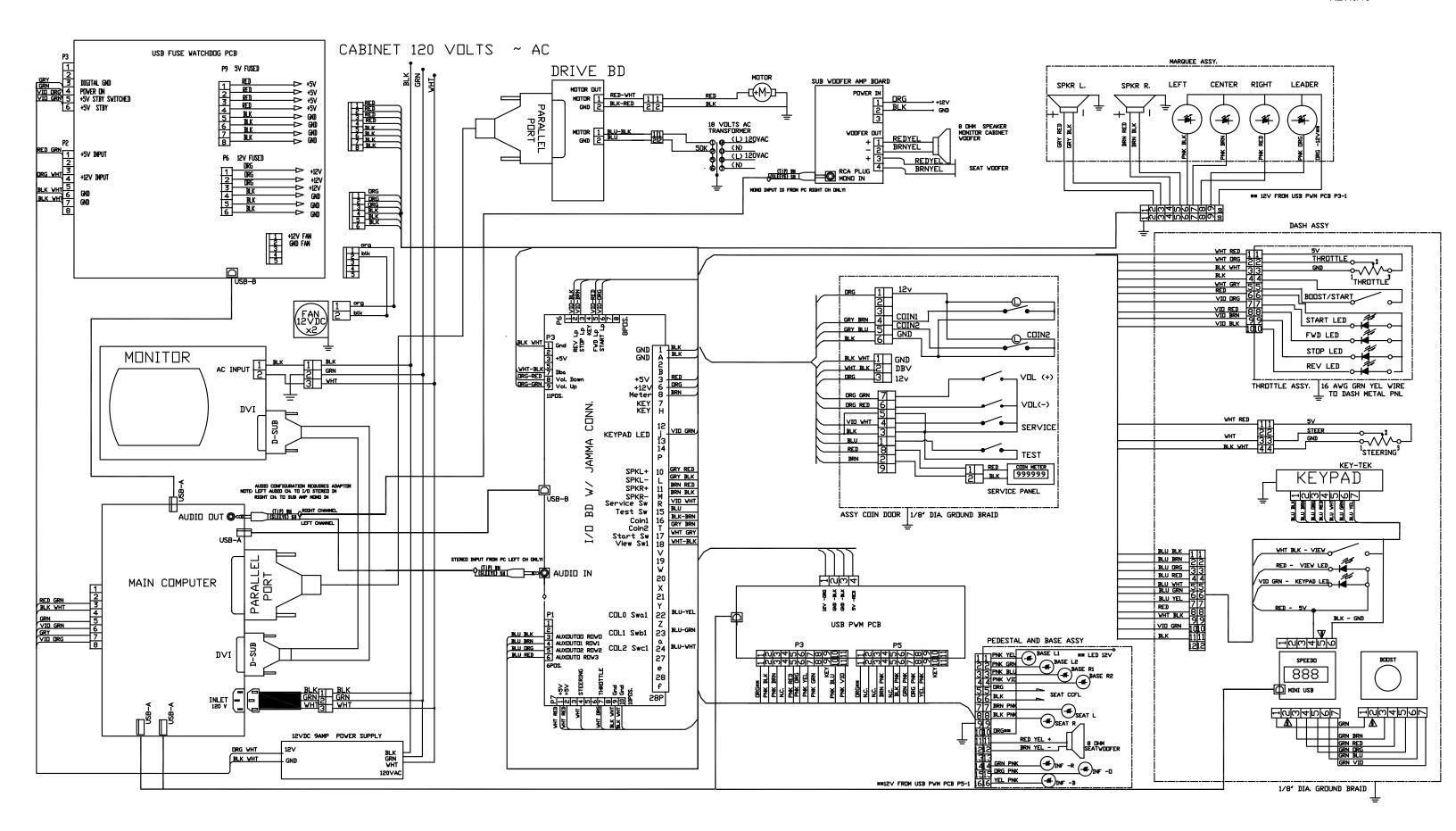
- 1. Verify that the I/O board has power. Check the fuses on the FUSE / WD board, p/n 500-00012-01.
- 2. Verify the cable connections inside the VIDEO GAME MACHINE. Verify the USB cable that connects the I/O board to the computer is securely attached.
- 3. Power-cycle the VIDEO GAME MACHINE.
- 4. Contact _____ for additional service. You may have a failed I/O board.

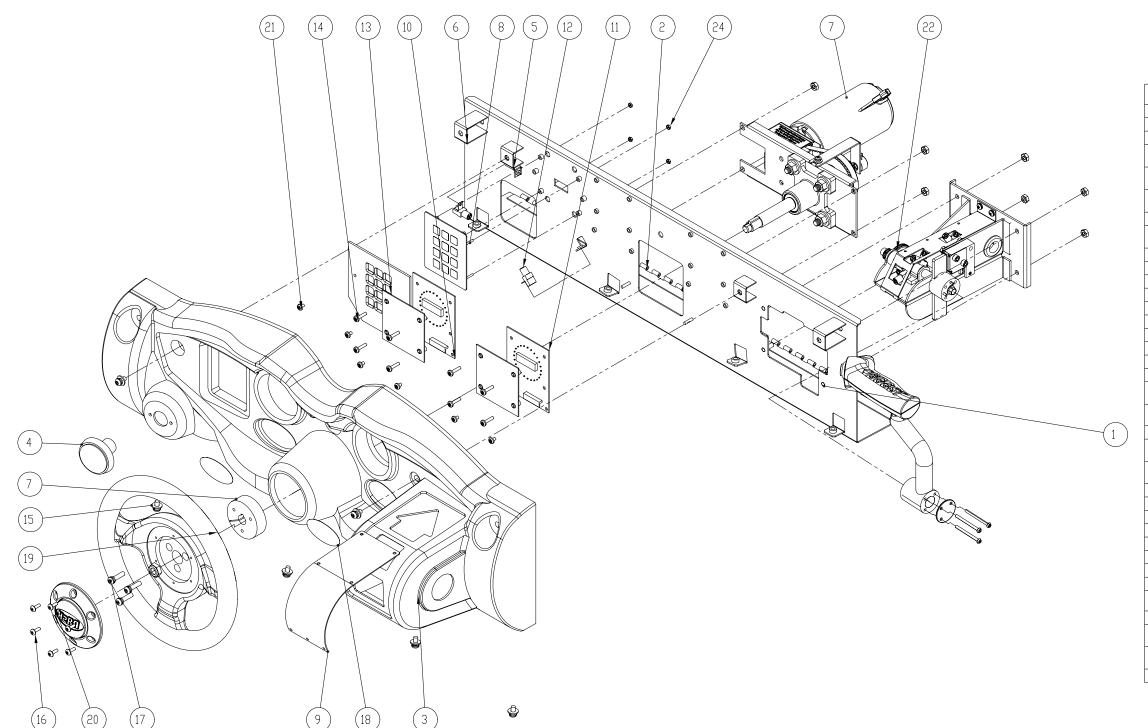
VIDEO GAME MACHINE Monitor Displays 'INSERT DONGLE'

This message indicates that the computer is unable to communicate with the security dongle that is located on the back of the computer.

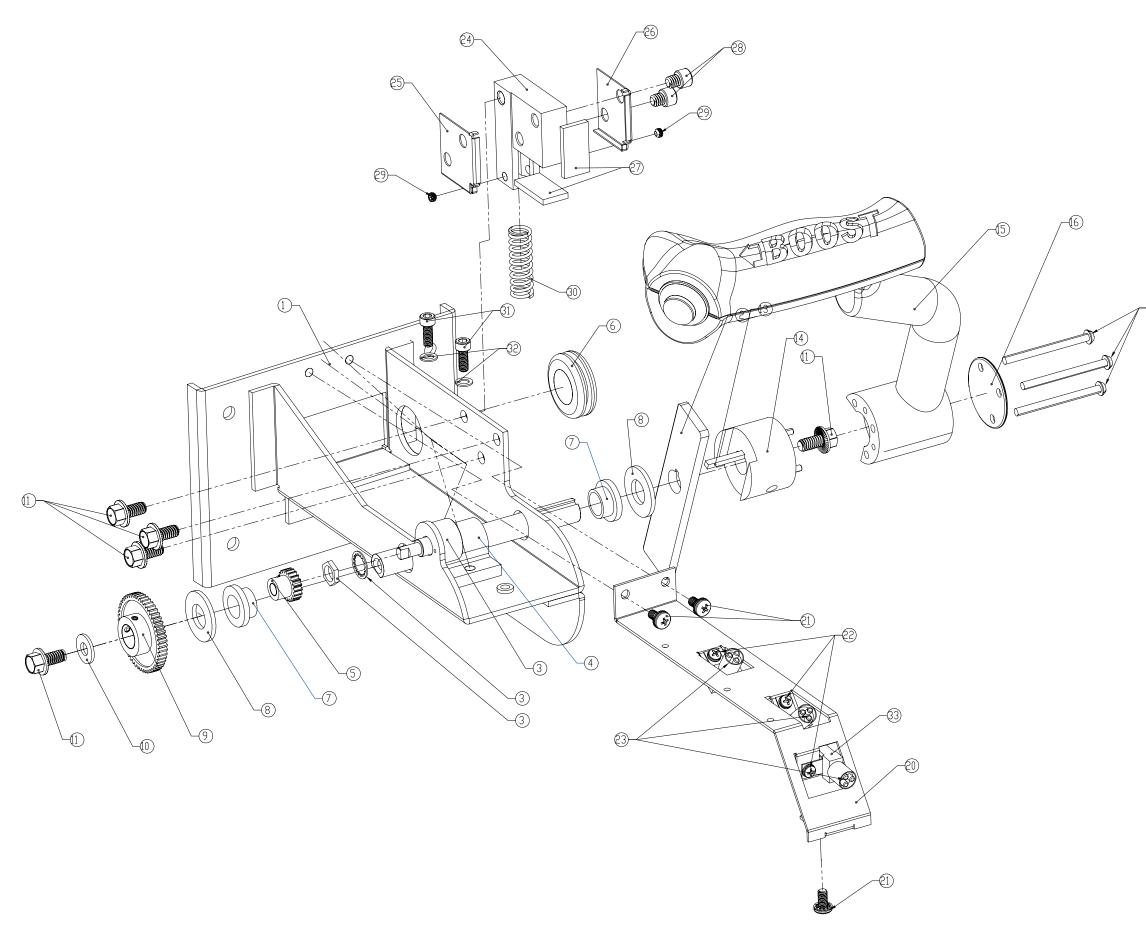
- 1. Verify that the security dongle is attached to a USB port of the computer.
- 2. Contact ______ for additional service. You may have a failed security dongle or a USB port on the computer.

NOTES:



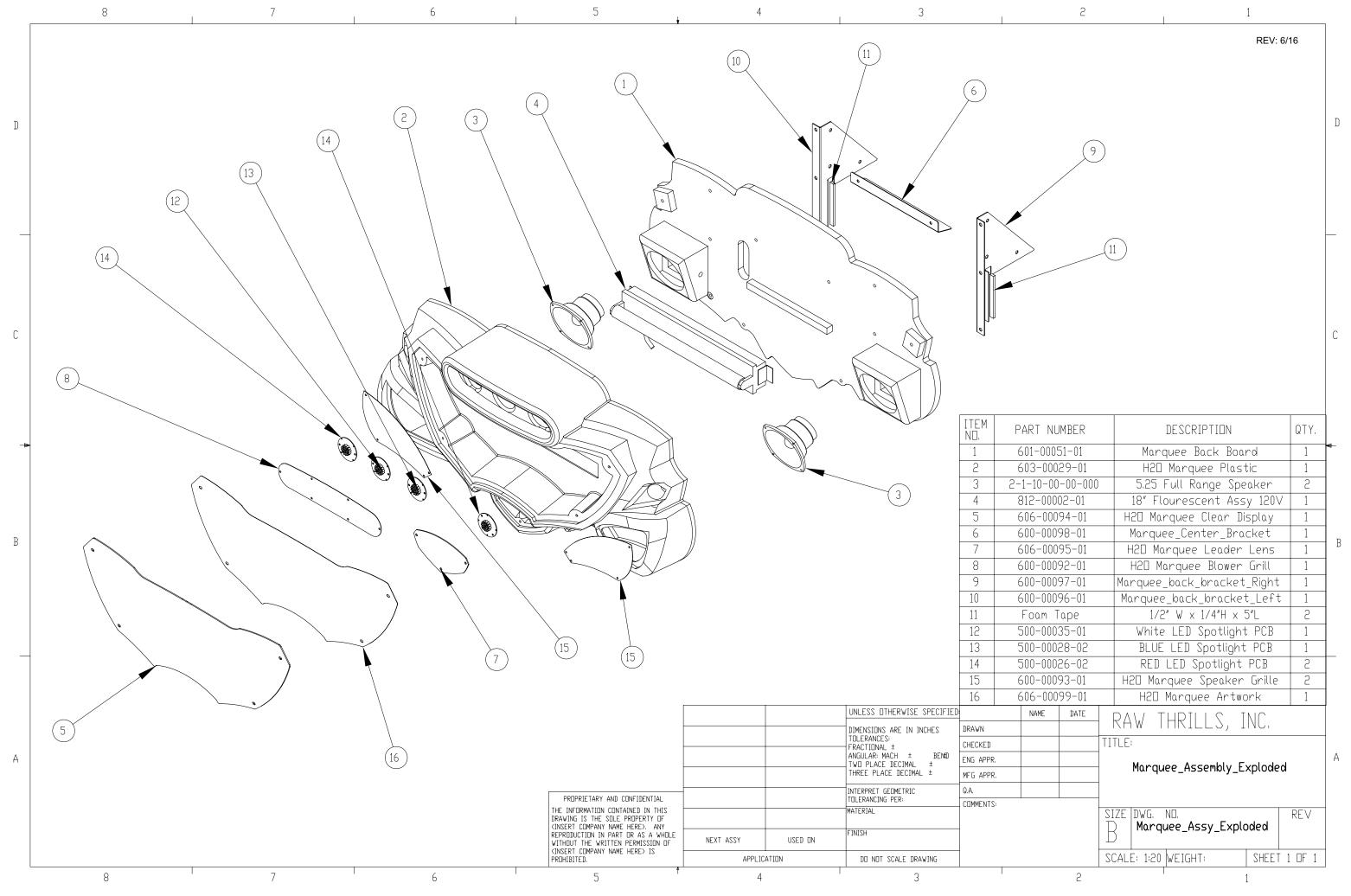


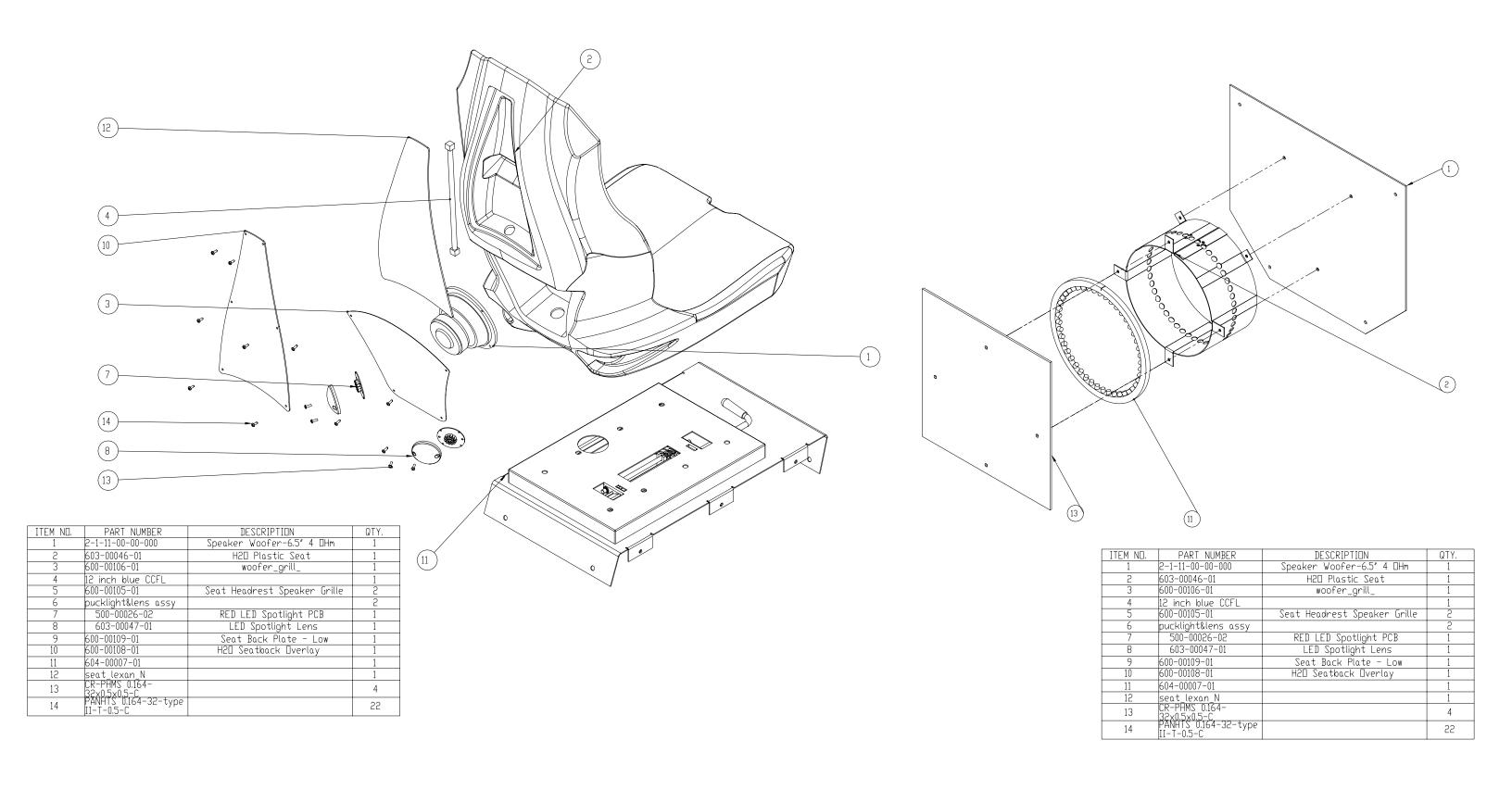
ITEM NO.	I PART NUMBER	DESCRIPTION	QTY.
1	606-00098-01	H2D Dash Plate	1
2	hinge11_dash_H2	TIED DUSTI FRATE	1
3	603-00030-01	H2O Dash- PRODUCTION	1
4	702-00020-00	Large Orange View Button	1
5	dash_mounting_bracket_Mi ni		2
6	dash_mounting_bracket_Tall		2
7	Steering_Assy		1
	steering mech		1
	Hub_collar		1
	Hub_Nut_ESN500	Hub Half inch Elastic Stop Nut	
	813-00006-01	Keypad- ATM Style Key-Tek	1
	600-00127-01Curved	H20Throttle plexy	11
10	SpeedoAssy		1
	500-00032-01	H2O Speed LED BOARD	1
	600-00125-01	H2O Speedo Lens	1
11	standoff_half BoostAssy		4
11	500-00032-01	H2D Speed LED BDARD	1
		'	
	600-00126-01	H2D Boost Lens	1
	standoff_half		4
12	Bulb and Holder		2
13	600-00128-01	Keypad Edgeglow Overlay-Blue	1
	#8 X 75screw		8
15	Dash_screw-lock-flat-500		6
	Torx500		1
	lockwasher250		1
4.7	flatwasher250		1
16	Torx832-500		6
17	Dash_screw-lock-1000		3
	Torx1000 lockwasher250		1
10		D 1 D 1 C1' 1	
18	Dash-Oval-Sticker	Dash-Oval-Sticker	2
19	Midway-HappSteeringWheel		1
20	603-00048-01	H2O Steering Wheel Cap	1
21	#8 X 250screw		6
22	EXP Assembly		1

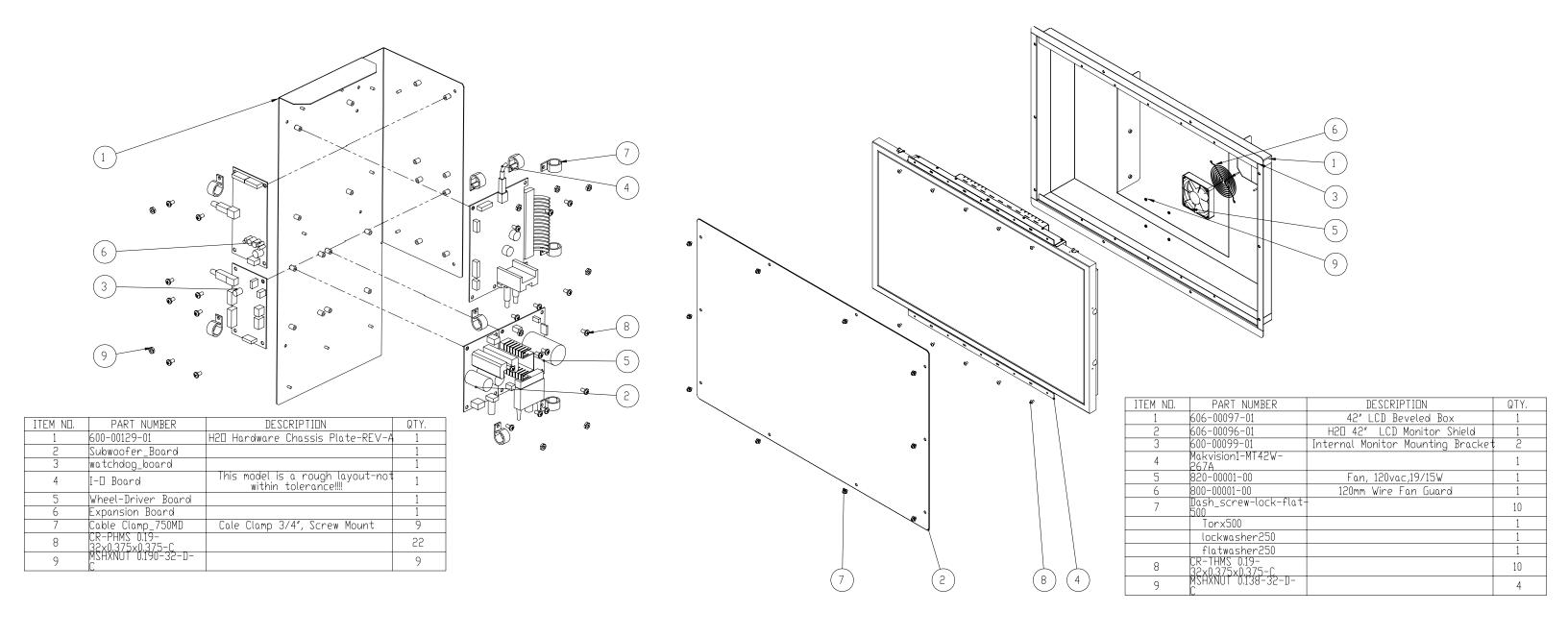


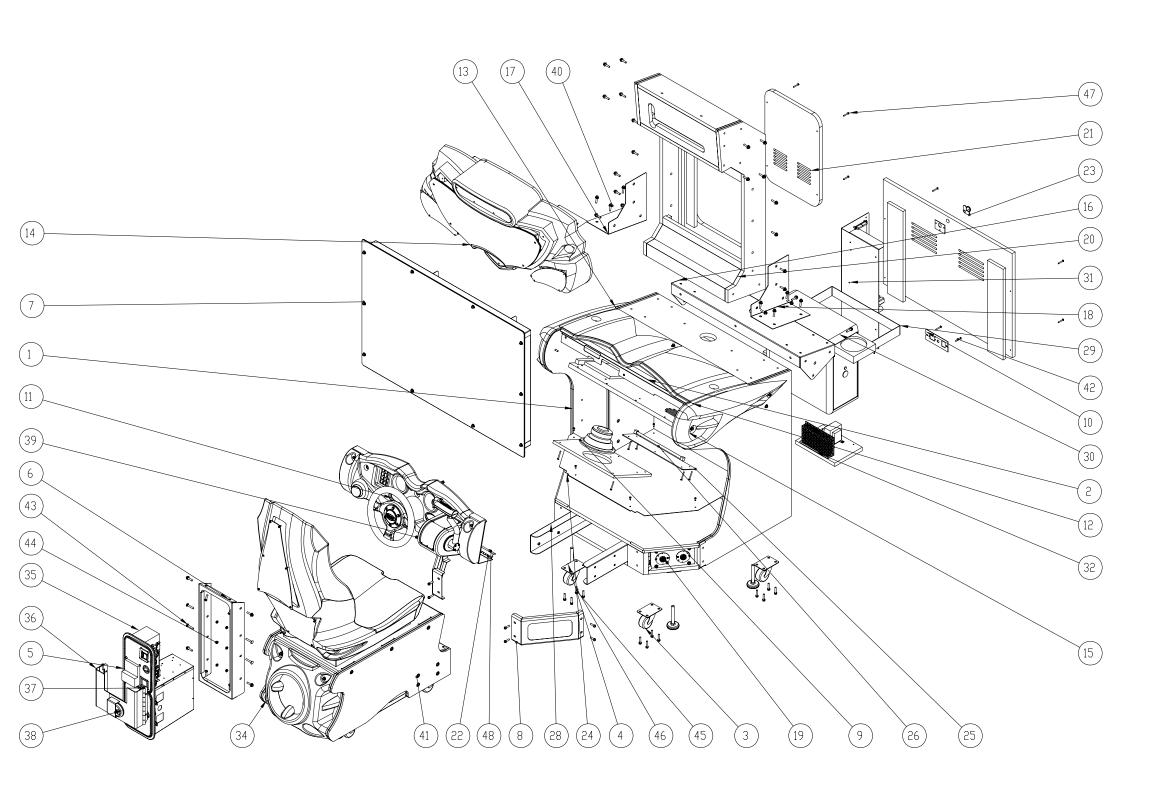
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	608-00042-01	THROTTLE SUPPORT BRACKET
2	1	608-00045-01	STOP PLATE
3	1	301-00016-00	PDT/WASHER/NUT
4	1	800-00027-01	FRICTION HINGE
5	1	600-00116-01	SMALL GEAR
6	1	MMC9307K82	3/4" RUBBER GROMMET
7	2	MMC2938T11	DILITE BUSHING
8	2	MMC5906K535	BRONZE THRUST BEARING
9	1	600-000115-01	LARGE GEAR
10	1		WASHER FLAT 1/4" SAE
11	5		HEX BOLT ZINC 1/4-20 X 1/2"
12			NOT USED
13	1		KEY 1/8" SQUARE X 1" - STEEL
14	1	608-00048-01	HUB
15	1	HAPP 96-1052-00	HANDLE ASSEMBLY
16	1	608-00049-01	SHIFTER CAP
17	3		SCREW 8-32 X 2" BUTTON PIT
18			NOT USED
19			NOT USED
20	1	608-00056-02	THROTTLE BULB HOLDER
21	3		SCREW 10-32 x 3/8 PHILLIPS SEMS
22	3		SCREW 6-32 x 1/4 PHILLIPS SEMS
23	3	HAPP 91-10WB-53W	LED BULB
24	1	608-00053-02	THROTTLE STOP BLOCK
25	1	608-00058-02	INSIDE STOP PAD RETAINER
26	1	608-00059-02	DUTSIDE STOP PAD RETAINER
27	2	600-00133-01	STOP PAD
28	2		SCREW HEX CAP 1/4-20 X 1/4"
29	2		SET SCREW 10-32 X 1/8"
30	1	C0480-067-1500-M	COMPRESSION SPRING
31	5		SCREW HEX CAP 10-32 X 1/2"
32	2		FLAT WASHER #10
33	3		BULB HOLDER (PART OF HARNESS)

NOTES:
1) LOCTITE THREADLOCKER 242 REQUIRED FOR SCREWS: 11, 17, 18, 28, 29, & 31.
2) LOCTITE RETAINING COMPOUND 638 REQUIRED BETWEEN ITEMS 2 AND 14.
3) LUBRICATE ITEM 30 AND INSIDE 24 WITH AN APPROVED LITHIUM GREASE.
4) SCREWS 31 SHOULD BE IN CONTACT WITH ITEMS 32 & 4, BUT NOT TIGHTENED.
5) CABLES ARE NOT SHOWN.









ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
11 EM INU.	601-00048-01	H20 Main Cabinet Assy	1
2	600-00100-01	H20 Dash Mounting Bracket	1
3	Caster 2'5_typ		4
4	4"		4
	i e		
5 6	40-7000-200 608-00031-01	LIOU Calinala and Harratina	1
	42-LCD-ASSY-H2-	H2D Coindoor Housing	
7	1Makvision		1
8	608-00035-01	H20 Perforated Kick Plate	2
9	2-1-11-00-00-000	Speaker Woofer-6.5″ 4 DHm	1
10	600-00076-01	AC Inlet Power Plate (standard)	1
11	Dash_Assy_H2_3	Dash_Assy_H2O_Exploded	1
12	603-00034-01	H2O Hood Plastic	1
13	603-00033-01	H2O Left Side Plastic	1
14	Marquee_Assy		1
15	603-00032-01	H20 Right Side Plastic	1
16	608-00032-01	H2U Monitor Cabinet Support Bracket-Rev A	1
17	608-00034-01	Left-Lower-Monitor-brace	1
18	608-00033-01	Right-Lower-Monitor-brace	1
19	500-00035-01	LED Spotlight PCB	4
20	601-00050-01	H2O Monitor Cabinet Assy	1
21	601-00054-01	H2O Upper Back Door	1
22	hinge11_dash		1
23	601-00052-01	LIGH CARINET PLANEND DI ATE	1
<u>24</u> 25	600-00102-01 600-00021-01	H2D CABINET DIAMOND PLATE Pedal Light Lens	1
26	702-00006-00	12 inch red CCFL	
			1
27 28	600-00110-01 600-00030-01	H2D Cabinet Perf Side Vent PEDESTAL MOUNTING CHANNEL	2
29	600-00120-01	Dell OptiPlex 740 Mounting Bracket	1
30	OPTIPLEX_PC	Dett Bp vii tex 7 to Thoursviing Br defte v	1
31	H20 Hardware Plate		1
32	H2D Power Assy		1
33	820-00001-00	Fan, 120vac,19/15W	1
34	H2Uverdrive_Pedestal _Assy		1
35	DBVrough		1
36	600-00139-01	H2O-Hasp-Assy-Left	1
37	600-00140-01	H2O-Hasp-Assy-Right	1
38	Diskus-Lock		1
39	Dash_screw-lock-1000		12
40	Dash_screw-lock-flat- 1250		58
41	Dash_screw-lock-flat- 2500		12
42	CR-PHMS 0.164- 32×1.5×1.5-C		14
43	32x1.5x1.5-C RHSNBULT 0.25- 20x1.5x1.5-C		4
44	HJNUT 0.2500-20-D-C		8
45	Regular LW 0.25		16
46	IN-HHMS 0.25-		16
47	20x1,25x1,25-C PANHTS 0.164-32-type II-T-0.5-C		22
48	MSHXNUT 0.250-20-D- C		7
		_	

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The entire team at Raw Thrills

Bob Boals and the fine folks at Betson Enterprises

Mark Struhs John M. Upton, Esq. James R. Arneson C.P.A. Steve K. Lee

Travis Boyd Gary Leroy

From Steve: Diana, Devon, Ainsley, Logan, Gloria, Linda, Ray, Simba, and Nafu. I love you

From Dale: Eelia G. Henderscheid From Andy: Christina M. Wilson

From Brian: Kate Silva

From Detmar: To my family; my reason for doing anything. You made it possible for me to be part of this project; Alesia, Hillary, Moses, Zoe and Lynn.

From Andrew: Chloe the Cat

Raw Thrills Credits

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