

Service Manual Rev 1.0

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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 (VGM) for play. Other safety instructions appear throughout this manual.

WARNING: TRANSPORTING THE VIDEO GAME MACHINE (VGM).

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

WARNING: DISCONNECT POWER.

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

WARNING: GROUND GAMES.

Avoid electrical shock! Do not plug in the VGM 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: DO NOT INSTALL NEAR WATER JET

This VGM is not suitable for installation in an area where a water jet would be used. Do not use a water jet to clean the machine.

WARNING: AVOID ELECTRICAL SHOCKS.

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

WARNING: HANDLE FLOURESCENT TUBE 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 are rated for the proper line voltage. NOTE: There are two fluorescent lamps in the marquee and one fluorescent lamp in the main cabinet.

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. Do not handle roughly. Call your distributor before servicing PC internal components. Ask about warranty information as it relates to the PC.

WARNING: IF POWER CORD IS DAMAGED

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

WARNING: HAZARD TO EPILEPTICS.

A very small portion of the population has a condition that 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. People who have not had any previous seizures may nonetheless have an undetected epileptic condition.

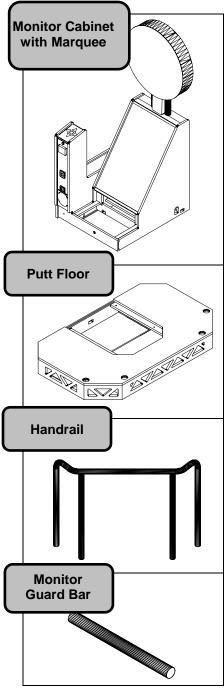
If you or anyone in your family has experienced symptoms linked to an epileptic condition (e.g., seizures or loss of awareness), immediately consult your physician before using any video games.

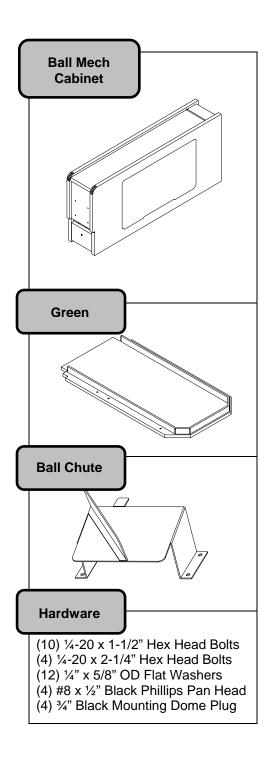
We recommend that parents observe their children while they play video games. If you or your child experience the following symptoms: dizziness, altered vision, eye or muscle twitching, involuntary movements, loss of awareness, disorientation, or convulsions, DISCONTINUE USE IMMEDIATELY and consult your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

FCC Compliance

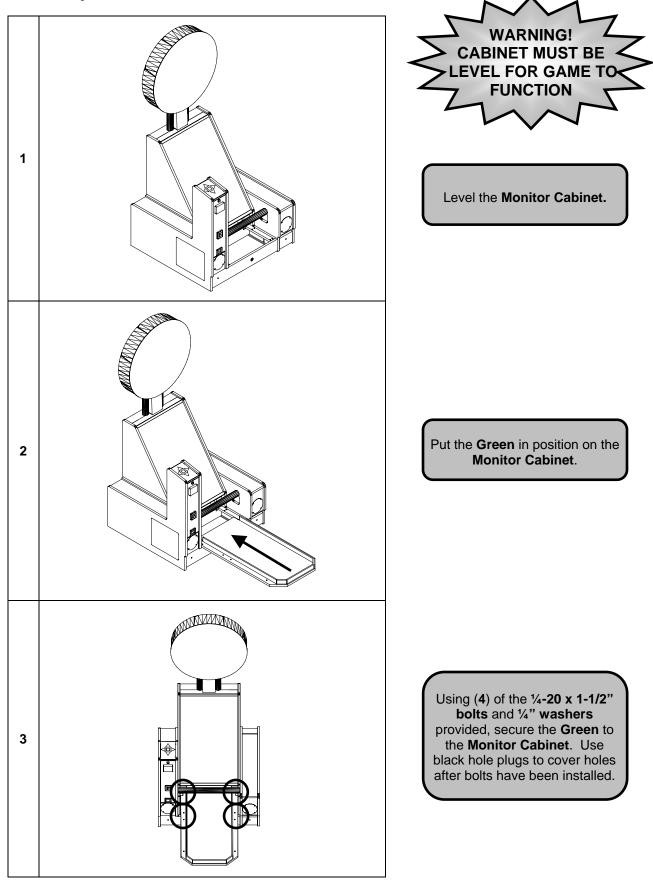
Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

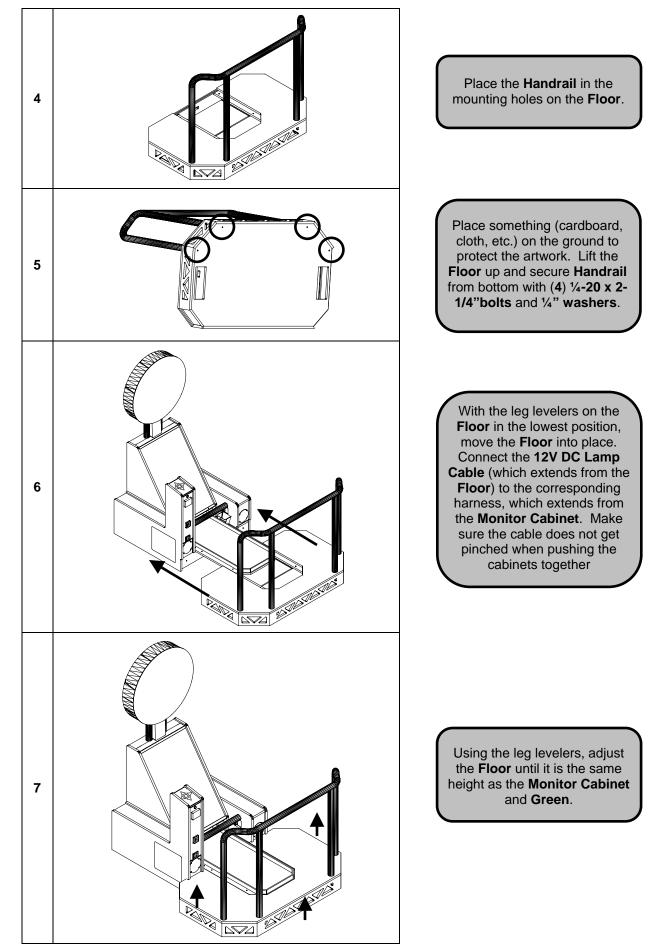


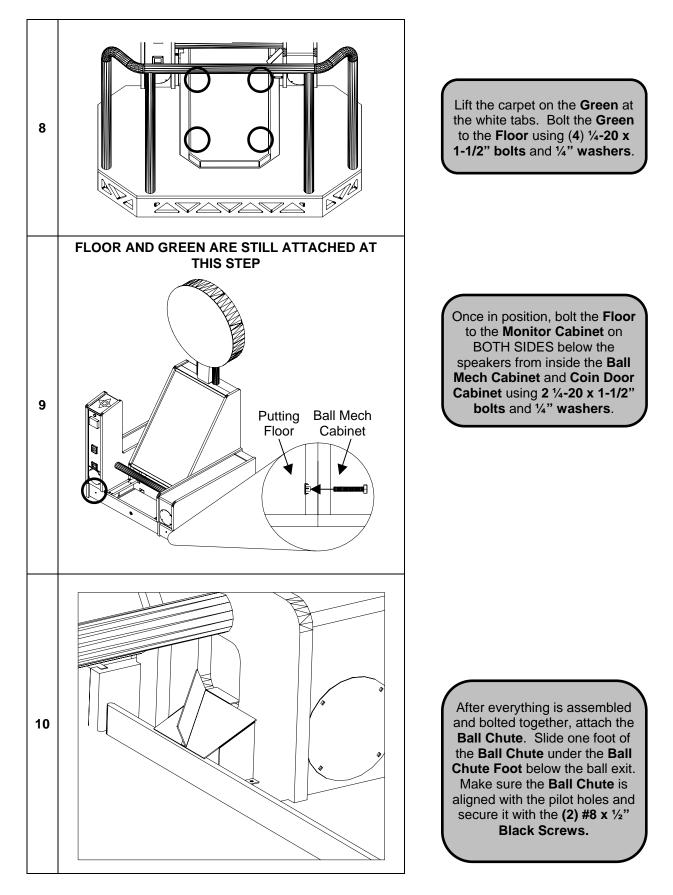




Assembly Instructions

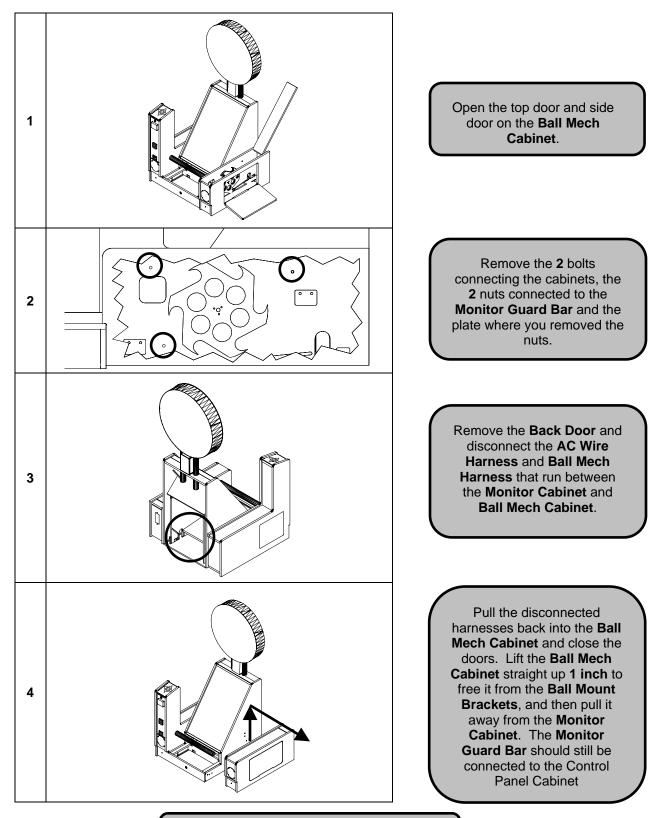






Removal of Ball Mech Cabinet

If the cabinet is too wide to fit through a doorway with the **Ball Mechanism Cabinet** attached, it can be easily removed and reattached.



To reattach the **Ball Mech Cabinet**, just follow the previous steps in reverse order.

Aligning Motion Sensor

The motion sensor is aligned before you receive it, but it is possible that some movement has occurred during shipment.

NOTE: For better visibility, use the removed back door to shield light from the cabinet. When the back door is open, light reflecting off the motion sensor guard tends to wash out the image, making it more difficult to see.

Open the coin door and press the Menu button on the Service Panel.

Using the Up and Down buttons on the **Control Panel**, move to **Diagnostics** and press Start. From this menu, select **Motion Sensor**.

Look at the box labeled "Live Feed." This shows you what the motion sensor is currently seeing.

If the motion sensor is correctly aligned, you should see equal black triangles on both sides of the image and a thin silver line, which is the top of the Ball Gate, at the bottom of the screen. THIS LINE MUST BE HORIZONTAL FOR THE MOTION SENSOR TO TRACK ACCURATELY. If the image DOES NOT appear as described, use the guide below to determine how you must adjust the motion sensor.

See Motion Sensor Test on page 19 for information on adjusting the ball speed.

PERFECT SENSOR TOO LOW (-)4 BEND SENSOR BRACKET UP Live Feed Live Feed MUST BE PERFECTLY HORIZONTAL **SENSOR TOO HIGH** SENSOR NOT CENTERED IMAGE NOT HORIZONTAL LOOSEN THE TWO SCREWS SHOWN BELOW AND TWIST THE SENSOR LOOSEN THE TWO SCREWS SHOWN **BEND SENSOR** SO THE WHITE LINE AT **BELOW, SWIVEL THE** THE BOTTOM IS BRACKET DOWN SENSOR LEFT OR PERFECTLY HORIZONTAL **RIGHT, THEN TIGHTEN** WHEN IN PLACE, TIGHTEN THE SCREWS THE SCREWS Live Feed Live Feed Live Feed Ð Ð (-) (\mathbf{F}) -0

REMOVE BACK DOOR TO ACCESS MOTION SENSOR

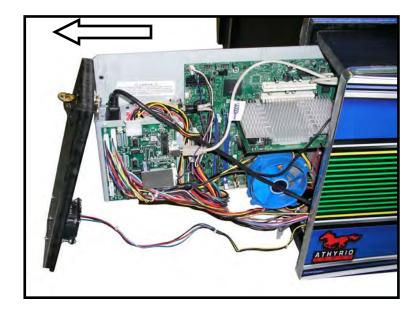


Accessing and Removing Computer Shelf

The computer shelf is located at the rear of the Coin Door Cabinet. The computer shelf can be accessed by removing the door on the back of the Coin Door Cabinet. Remove the thumbscrew and slide the computer shelf back.

There are nine cables that need to be disconnected from the Computer Shelf to completely remove it from the cabinet. These are the Fan Power Harness, Power Cable to the Power Supply, Coin Door Harness, Control Panel Harness, Ball Mech Harness, Speaker Harness, DVI Cable, USB Extension Cable and the Motion Sensor's USB Cable

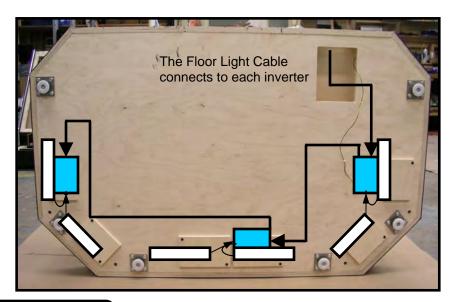
- 1. TURN POWER OFF AND UNPLUG FROM WALL!
- 2. Remove the back door of the Coin Door Cabinet.
- 3. Disconnect the Fan Power Harness from the ATX Power Supply.
- 4. Remove the thumbscrew that holds the Computer Shelf in place.
- 5. Pull the computer shelf out just enough so that you can see all of the I/O Board and Power Supply.
- 6. Disconnect the A/C Power Cable from the Power Supply.
- 7. Disconnect the 4 cable connectors that are attached to the face of the I/O Board. These are the **Coin Door Harness**, **Control Panel Harness**, **Ball Mech Harness** and the **Speaker Harness**.
- 8. You can leave the 4-pin power connecter attached to the top of the board, as well as the USB cable and Audio Cable.
- 9. Continue pulling the shelf out of the cabinet.
- 10. Disconnect the monitor's **DVI Cable** from the Video Card that is connected to the motherboard.
- 11. Disconnect the Motion Sensor USB Cable and USB Extension Cable from Motherboard.

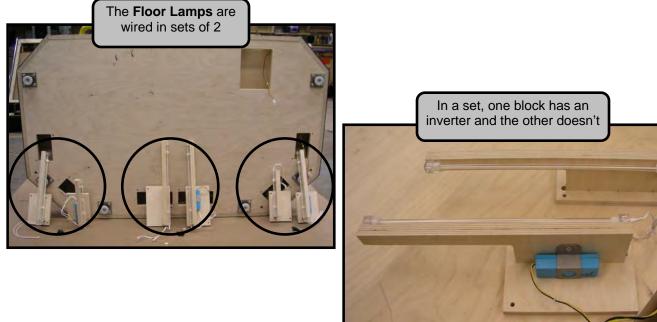


Servicing Floor Lamps

The lamps in the floor are wired in sets of 2. Each set consists of **1 inverter** and **2 lamps**. There is a single cable that runs from the Monitor Cabinet to each inverter, as shown below. Each lamp has its own cable, which connects to the other side of the inverter.

Because both lamps are plugged into the same inverter, you must remove both blocks in a set when servicing a lamp.



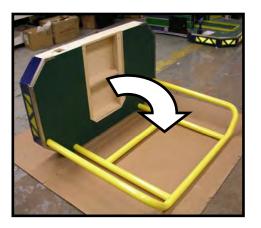


See the next page for detailed instructions

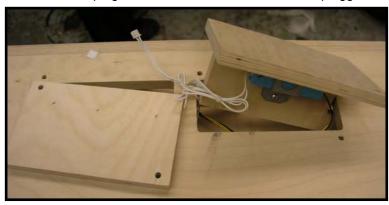
1. Remove the bolts that hold the **Floor** to the **Monitor Cabinet** and remove the 4 bolts that mount the **Green** to the **Floor**. You can leave the **Green** connected to the **Monitor Cabinet**.

2. Pull the **Floor** away from the **Monitor Cabinet** and disconnect the **Floor Power Cable**, which runs between the two cabinets.

3. Pull the handrail down to the ground so that the **Floor** is vertical. Put something on the ground to protect the art and Handrail from being scratched.



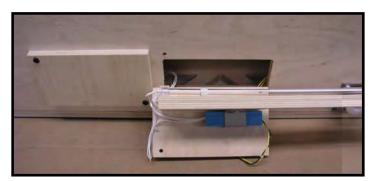
4. Remove the 4 screws for the pair of lamps that you have to remove. Slightly lift each block so you can see which one has the inverter. Unplug both sets of white cables that are plugged into the inverter.

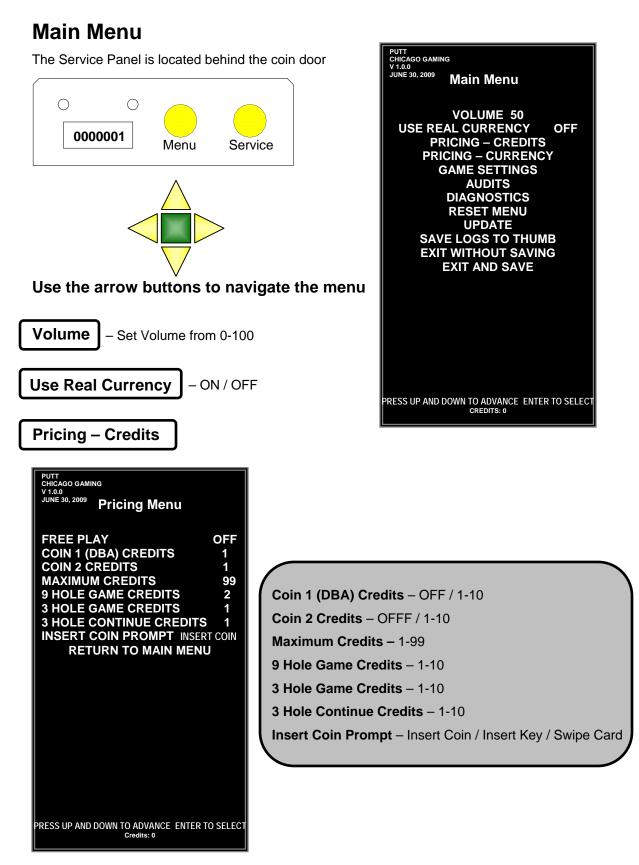


5. You can now remove and service the lamp or inverter.

6. When reinstalling the lamps, you must first install the lamp WITHOUT the inverter and run that lamp's cable to the other lamp's mounting hole, as shown below. Now put the block with the inverter in position and connect both of the lamps cables to the inverter







Pricing – Currency

PUTT CHICAGO GAMING V 1.0.0 JUNE 30, 2009 Pricing Menu

OFF FREE PLAY LOCALE **USA DOLLAR COIN 1 (DBA) PER PULSE** \$0.25 COIN 2 PER PULSE \$0.25 9 HOLE GAME COST \$2.50 **3 HOLE GAME COST** \$1.00 **3 HOLE CONTINUE COST** \$1.00 **INSERT COIN PROMPT** INSERT COIN **RETURN TO MAIN MENU**

Free Play – ON / OFF Locale – USA Dollar / England Pound Coin 1 (DBA) Per Pulse – \$0.00-\$5.00 Coin 2 Per Pulse – \$0.00-\$5.00 9 Hole Game Cost – \$0.25-\$10.00 3 Hole Game Cost – \$0.25-\$10.00 3 Hole Continue Cost – \$0.25-\$10.00 Insert Coin Prompt – Insert Coin / Insert Key / Swipe Card

Game Settings

PUTT CHICAGO GAMING V 1.0.0 JUNE 30, 2009 GAME SETTINGS DIFFICULTY ATTRACT SOUND ON

PRESS UP AND DOWN TO ADVANCE ENTER TO SELECT

ATTRACT SOUNDONALLOW CONTINUESONCONTINUE TIMER30METERS / YARDSFEETMAX STROKES OVER PAR4MINUTES TO TIMEOUT IDLE GAME5RETURN TO MAIN MENU

Difficulty – Easy / Medium Easy / Medium / Medium Hard / Hard

The difficulty level determines how much the computer assists the player during putting. If a player, aiming at the hole, hits the ball too far to the right, the computer will partially correct the putt, moving the ball closer to the hole. Easier difficulties correct more, while harder difficulties correct less.

Attract Sound - ON / OFF / Low Volume

Allow Continues - ON / OFF / 1 / 2 / 3

Continue Timer – 15-45

Meters/Yards - Meters / Yards / Feet

Max Strokes Over Par – OFF / 1-10

Minutes to Timeout Idle Game - OFF / 1-15

PRESS UP AND DOWN TO ADVANCE ENTER TO SELECT Credits: 0

Audits **Base Audits** PUTT CHICAGO GAMING V 1.0.0 JUNE 30, 2009 **Game Audits** AUDITS MENU PUTT CHICAGO GAMING V 1.0.0 JUNE 30, 2009 PUTT CHICAGO GAMING AUDITS **BASE AUDITS** V 1.0.0 JUNE 30, 2009 CURRENT LIFETIME GAME AUDITS AUDITS MONEY IN \$0.00 \$0.00 **VEGAS AUDITS** CURRENT LIFETIME **HAWAII AUDITS** COIN CHUTE 1 0 MONEY IN \$0.00 \$0.00 COIN CHUTE 2 (DBV) TOTAL COINS 0 0 0 0 **RETURN TO MAIN MENU** 50 52 0:00 GAMES PLAYED 50 52 GAMES VLATED AVERAGE GAMETIME 1 PLAYER GAMES 2 PLAYER GAMES 3 PLAYER GAMES 4 PLAYER GAMES FREE PLAY STARTS 52 0:00 34 1 0 0 0 GAMES PLAYED 0 0 34 1 0 0 SERVICE CREDITS 0 0 SERVICE CREDIT CURRENCY \$0.00 \$0.00 TIME ON 0Y 0D 00:00:00 0Y 0D 00:00:00 9 HOLE GAMES 3 HOLE GAMES 3 HOLE CONTINUES 23 12 15 23 12 15 PLAY TIME 0Y 0D 00:00:00 0Y 0D 00:00:00 1 PLAYER CONTINUES 2 PLAYER CONTINUES 3PLAYER CONTINUES 4PLAYER CONTINUES 14 1 0 0 1 0 0 VEGAS GAMES 5 30 5 30 HAWAII GAMES PRESS UP AND DOWN TO ADVANCE ENTER TO SELECT Credits: 0 PRESS SERVICE TO CLEAR CURRENT AUDITS PRESS ENTER TO EXIT Credits: 0 PRESS SERVICE TO CLEAR CURRENT AUDITS PRESS ENTER TO EXIT **Vegas Audits** Hawaii Audits PUTT CHICAGO GAMING V 1.0.0 JUNE 30, 2009 PUTT CHICAGO GAMING V 1.0.0 JUNE 30, 2009 AUDITS CURRENT LIFETIME AUDITS HOLE 1 PLAYS HOLE 1 AVG SCORE HOLE 1 AVG TIME 0 0 CURRENT LIFETIME IOLE 1 PLAYS IOLE 1 AVG SCORE IOLE 1 AVG TIME HOLE 2 PLAYS HOLE 2 AVG SCORE HOLE 2 AVG TIME 000 0000 0 000 HOLE 2 PLAYS HOLE 2 AVG SCORE HOLE 2 AVG TIME HOLE 3 PLAYS HOLE 3 AVG SCORE HOLE 3 AVG TIME 0000 000 HOLE 3 PLAYS HOLE 3 AVG SCORE HOLE 3 AVG TIME HOLE 4 PLAYS HOLE 4 AVG SCORE HOLE 4 AVG TIME 0000 0 0 0 0000 HOLE 4 PLAYS HOLE 4 AVG SCORE HOLE 4 AVG TIME HOLE 5 PLAYS HOLE 5 AVG SCORE HOLE 5 AVG TIME 0 0 0 0 0 0 0 0 0 HOLE 5 PLAYS HOLE 5 AVG SCORE HOLE 5 AVG TIME HOLE 6 PLAYS HOLE 6 AVG SCORE HOLE 6 AVG TIME 0000 0 0 0 000 HOLE 6 PLAYS HOLE 6 AVG SCORE HOLE 6 AVG TIME HOLE 7 PLAYS HOLE 7 AVG SCORE HOLE 7 AVG TIME 0000 0 0 0 0 0 0 HOLE 7 PLAYS HOLE 7 AVG SCORE HOLE 7 AVG TIME IOLE 8 PLAYS IOLE 8 AVG SCORE IOLE 8 AVG TIME 0000 0 0 0 0000 HOLE 8 PLAYS HOLE 8 AVG SCORE HOLE 8 AVG TIME HOLE 9 PLAYS HOLE 9 AVG SCORE HOLE 9 AVG TIME 0000 0 0 0 HOLE 9 PLAYS HOLE 9 AVG SCORE HOLE 9 AVG TIME 0 PRESS SERVICE TO CLEAR CURRENT AUDITS PRESS ENTER TO EXIT Cre dite: 0 PRESS SERVICE TO CLEAR CURRENT AUDITS PRESS ENTER TO EXIT

15

Credits: 0

Diagnostics



SWITCHES VIDEO AUDIO BALL RETURN LAMPS MOTION SENSOR HARDWARE INFO RETURN TO MAIN MENU

PRESS UP AND DOWN TO ADVANCE ENTER TO SELECT

Switches – Select this option to test the functionality of the switches.

Video – Select this option to test that the monitor is working properly.

Audio – Select this option to test that the speakers are working correctly.

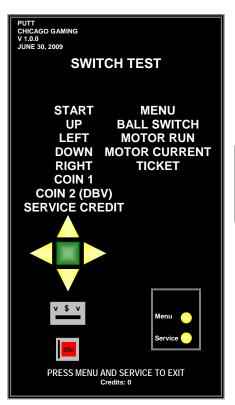
Ball Return – Select this option to test the Ball Return Mechanism and Motor.

Lamp Test – Select this option to test all lamps in the cabinet.

Motion Sensor – Use the motion sensor diagnostic to make sure that the motion sensor is working and properly aligned. This is also where you can adjust the speed of the ball in game.

Hardware Info – This provides the versions of Motherboard, I/O Board, and BIOS Version in the machine.

Switch Test

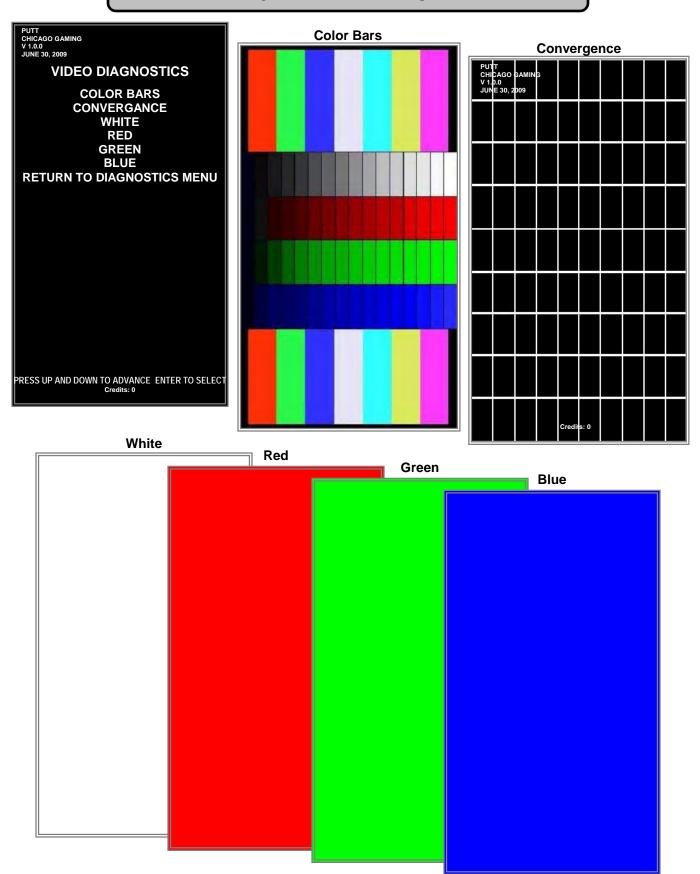


Switches – Pushing a switch will cause the name to light up on the screen.

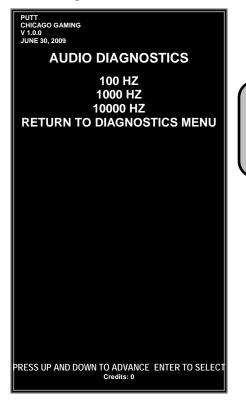
Start, Up, Left, Down, Right, Coin 1, Coin 2 (DBV), Service Credit, Menu, Ball Switch, Motor Run, Motor Current, Ticket

Video Diagnostics

Use Up and Down to navigate the menu and press enter to select a test screen. Press enter again to return to Video Diagnostics Menu.

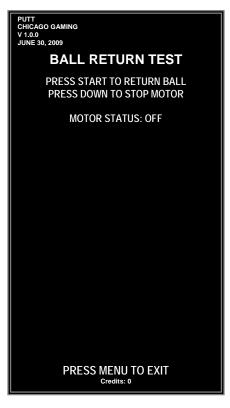


Audio Diagnostics



100 HZ – This tests that the speakers work at 100HZ.
1000 HZ – This tests that the speakers work at 1000HZ.
10000 HZ – This tests that the speakers work at 10000HZ.

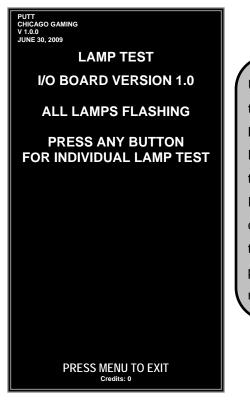
Ball Return Test



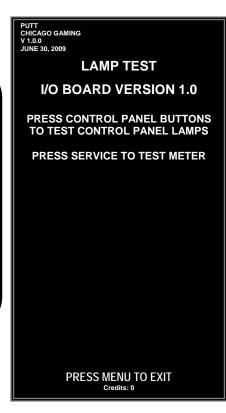
Pressing Start returns one ball.

Pressing Down while the motor is running will stop it.

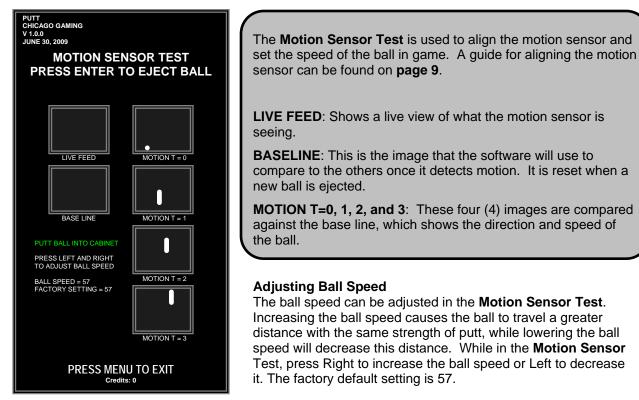
Lamp Test



Upon entering the **Lamp Test**, the five Control Panel Button Lamps should be flashing. Pressing any button switches to the Individual Lamp Test. In this mode, pressing a control panel buttons tests the lamp in that button and pressing Service tests the meter.

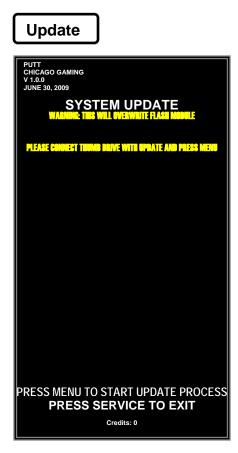


Motion Sensor Test



Hardware Info

PUTT CHICAGO GAMING V 1.0.0 JUNE 30, 2009		
Motherboard Information: INTEL CORPORATION D945PLNM BIOS: 150 VIDEO: NVIDIA 9500 GT AUDIO: INTEL 82801G (ICH7) HDA NIC: INTEL PRO/100 VM SOFTWARE VERSION: V 1.0.0 I/O BOARD VERSION: 1.0	This screen provides the versions of Motherboard, BIOS, Video Card, I/O Board and Software that are currently in your game.	
PRESS ANY BUTTON TO EXIT		
Reset	Reset Adjustments – Prompts to confirm reset adjustments Reset High Scores – Does not prompt to confirm Reset Credits – Does not prompt to confirm	
CHICAGO GAMING V 1.0.0 JUNE 30, 2009 RESET MENU	Factory Reset All – Prompts to confirm factory reset all	
RESET CURRENT AUDITS RESET ADJUSTMENTS RESET HIGH SCORES RESET CREDITS FACTORY RESET ALL RETURN TO MAIN MENU	PUTT CHICAGO GAMING V1.0.0 JUNE 30, 2009 RESET CUI THIS ACTION C ARE Y PRESS MEN PRESS SERV PRESS SERV PRESS SERV PRESS SERV PRESS SERVICE T PRESS MENU TO PRESS SERVICE T PRESS MENU TO CONFIRM PRESS SERVICE TO CANCEL	



Putt! software can be updated through a USB drive. Connect the drive with the update on it to the USB Extension Cable behind the Coin Door, enter the System Update Menu and press the Menu button. You can cancel by pressing Service. When the update is complete, turn the power off, remove the USB drive and turn the power back on.

Save Logs to Thumb



Log files can be saved to a USB drive. This is intended to help diagnose problems while servicing the machine. Connect a USB drive, enter the Save Logs to Thumb menu and press Menu. When the screen prompts you, turn the power off, then remove the USB drive.

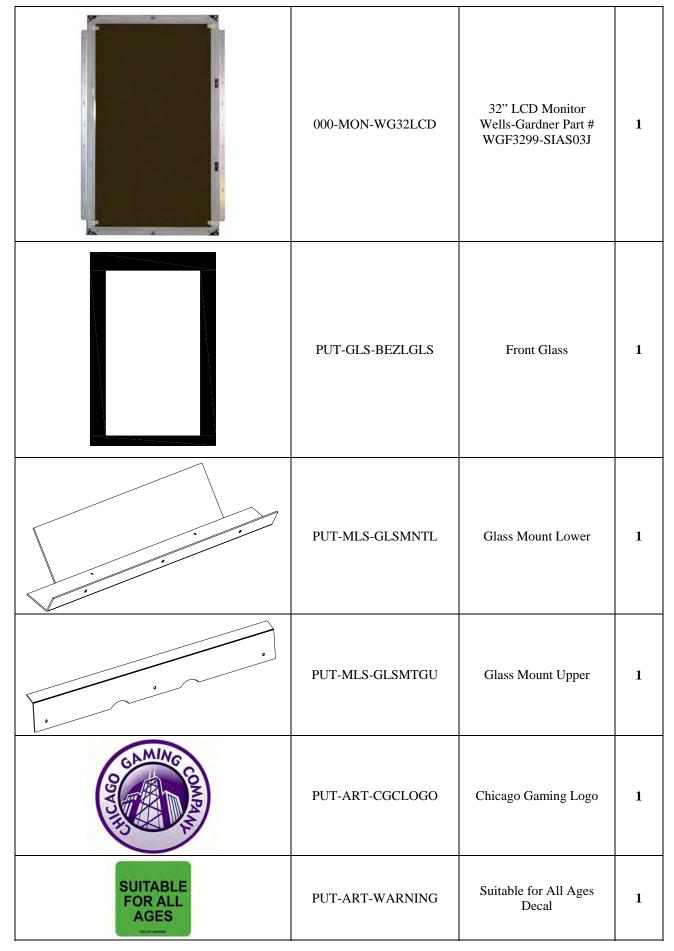
Putt! Parts List			
Part Picture	Part Number	Part Name	Qty.
	PUT-SUB-PCSHELF	Computer Shelf Subassembly	1
	000-ELE-270WPWR	Power Supply Sparkle Part # FSP270- 50SNV	1
	000-ELE-2GCFCRD	2GB Compact Flash Card With Software	1
	PUT-PCB-MBIN048	Motherboard, D945PLNML S775 800FSB DDR2 MATX	1
	PUT-PCB-USBIO	USB I/O Audio Amp	1

000	PUT-MLS-AHSNK15	Amp Heat Sink 1516	1
	PUT-PCB-V9502GT	Biostar Graphics Card V9502GT51	1
	PUT-ELE-1GBRAM	RAM – 1 GB, DDR2, 533MHz	1
The case of the second (MALA - 142) The case of the case of the case of the second (MALA - 142) The case of the case	PUT-ELE-CFSOCKT	Compact Flash Socket	1
	PUT-ELE-PRIN780	Celeron 2.8GHZ Processor	1
	PUT-ELE-SUPACC	Celeron Heat/Fan Sink	1
	PUT-MLS-IOMOUNT	IO PCB Mount	1

			,
	PUT-MLS-PBTNBRK	Power Button Bracket	1
	PUT-MLS-VIDOBRK	Video Support Bracket	1
• • • • • • • • • • • • • • • • • • • •	PUT-MLS-PNLRAIL	Electronics Panel Rail	1
	PUT-MLS-ELECPNL	Computer Shelf	1
	PUT-CBL-ACPOWER	AC Power Cable	1
	PUT-CBL-BALMECH	Ball Mech Cable	1
	PUT-CBL-CABGRND	Cab Ground Wires	1
	PUT-CBL-COINBOX	Coin Box Cable	1
	PUT-CBL-COINDOR	Coin Door Cable	1
	PUT-CBL-DBADOOR	DBA Door Cable	1
	PUT-CBL-FLORLIT	Floor Light Cable	1
	PUT-CBL-FLORPWR	Floor Power Cable	1
	PUT-CBL-MARQPOW	Marquee Power Cable	1
	PUT-CBL-PCBMECH	PCB Mech Cable	1
	PUT-CBL-POWRBRK	Power Brk Cable	1
	PUT-CBL-RESET	Reset Cable	1
	PUT-CBL-TICKLOW	Ticket Low Cable	1
	PUT-CBL-6USBM2F	6' USB Extension Cable	1

CHRANCE DITIONSHIP	PUT-ART-MARQUEE	Marquee	1
	PUT-MLS-MARQDRM	Marquee Drum	1
ur	000-LMP-18FLORE	18" Fluorescent Lamp	2
	000-LMS-18FLORE	18" Fluorescent Light Fixture	2
1	000-PLE-8507K14	Extrusion, 1/32 x 1/4 x 3/16 x 3/8, Material SBR/Neo. Blend Black	
	PUT-MLT-MRQSPRT	Marquee Support	2
	PUT-MLS-DPIMONT	DPI Speaker Mount Bracket	1

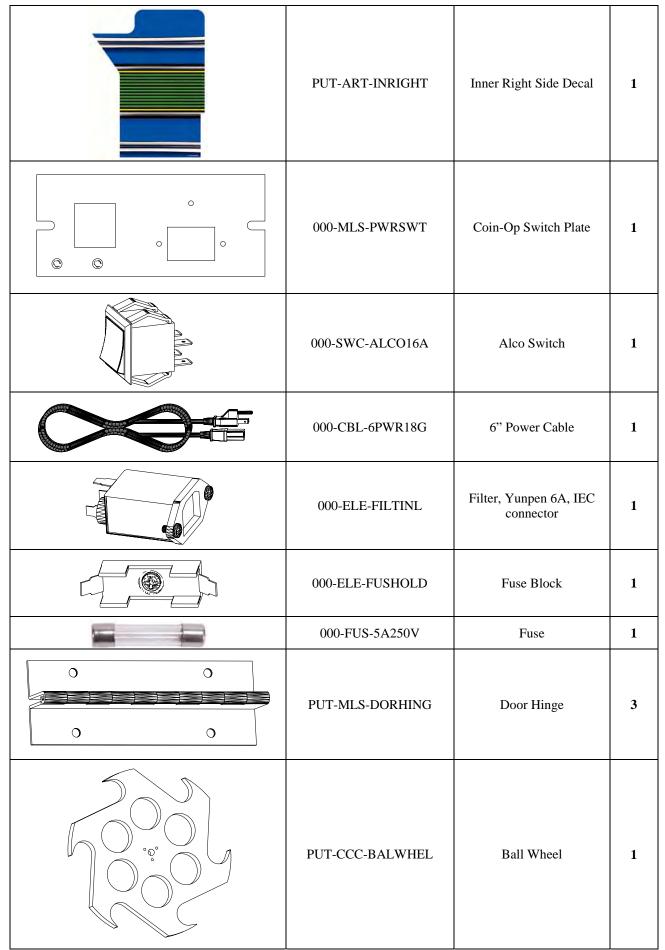
000-SPK-4IN3WAY	DPI Speaker 4" 3Way 50W, Black	1
PUT-CAB-MONITOR	Monitor Cabinet	1
PUT-ART-UPLEFT	Side Upper Panel Left	1
PUT-ART-UPRIGHT	Side Upper Panel Right	1



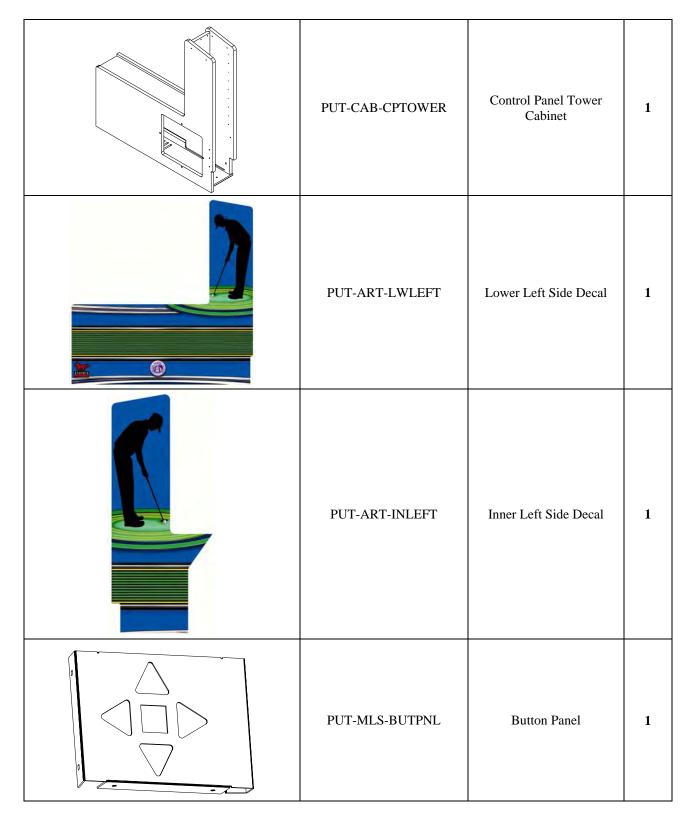
	PUT-MLS-BALMONT	Ball Mount Bracket	2
° ° ° ° °	PUT-PLS-GLSGARD	Glass Guard Plexi	1
	PUT-SUB-BALGATE	Ball Gate Subassembly	1
	PUT-MLS-BGATHNG	Ball Gate Hinge	1
	PUT-MLS-BGATMNT	Ball Gate Mount	1
· · · · · · · · · · · · · · · · · · ·	PUT-MLS-BGATPLT	Ball Gate Plate	1
	PUT-MLW-BALGATC	Ball Gate Wires	10
	PUT-MLW-GATSPRN	Ball Gate Spring	10

	PUT-MLW-HNGSPNG	Ball Gate Hinge Spring	2
	PUT-SUB-BONCPAD	Ball Bounce Board with Padding and Cloth	2
	PUT-ELE-WEBCAM	Motion Sensor	1
	PUT-MLS-CAMMONT	Motion Sensor Mount	1
	PUT-MLS-CAMSTND	Motion Sensor Stand	1
	PUT-LMP-GLI106	10-3/4" Fluorescent Lamp, Complete	1
- 17	PUT-LMP-10INBLB	10-3/4" Fluorescent, Bulb Only	1

0 0 0 0	PUT-PLS-CAMGUARD	Motion Sensor Guard	1
	000-LVR-1213X3	¹ ⁄2-13 x 3" Leg Levelers	4
	000-LVR-1213X15	¹ ⁄2-13 x 1.5" Leg Leveler	6
	000-HDW-5LEGPLT	¹ ∕2-13 Leg Leveler Plate	10
	000-HDW-3FCASTE	Casters	2
	PUT-CAB-BALLMCH	Ball Mech Box Cabinet	1
	PUT-ART-LWRIGHT	Lower Right Side Decal	1



	PUT-MTR-S8153	Motor (Model VF2508, Volts=12, RPM=17, Torque=16, S8153F, .187 Terminal)	1
	PUT-MLC-WHELHUB	Ball Wheel Hub	1
	PUT-HAP-SWSHOOT	Switch Assembly Shooter with Diode	1
0 0	PUT-MLS-BALDVRT	Ball Diverter	1
	PUT-PLE-GARDTUB	Guard Bar Rubber Tube	1
0	PUT-MLT-GARDBAR	Monitor Guard Bar	1
	PUT-MLS-BARPLAT	Monitor Guard Bar Plate	2



	PUT-ART-CPO	Control Panel Overlay	1
	PUT-HAP-DWNBUTN	Triangular Green Printed Button	1
	PUT-HAP-LFTBUTN	Triangular Yellow Printed Button	1
Contraction of the second seco	PUT-HAP-RGTBUTN	Triangular Yellow Printed Button	1
TANT	PUT-HAP-SQRBUTN	Square Green Printed Button	1
CONTENTED .	PUT-HAP-UPBUTN	Triangular Green Printed Button	1
MHITE WHITE	000-LMP-3LED12V	T3-1/4 LED – 12V Betson Part # 06-900-12V3V	6

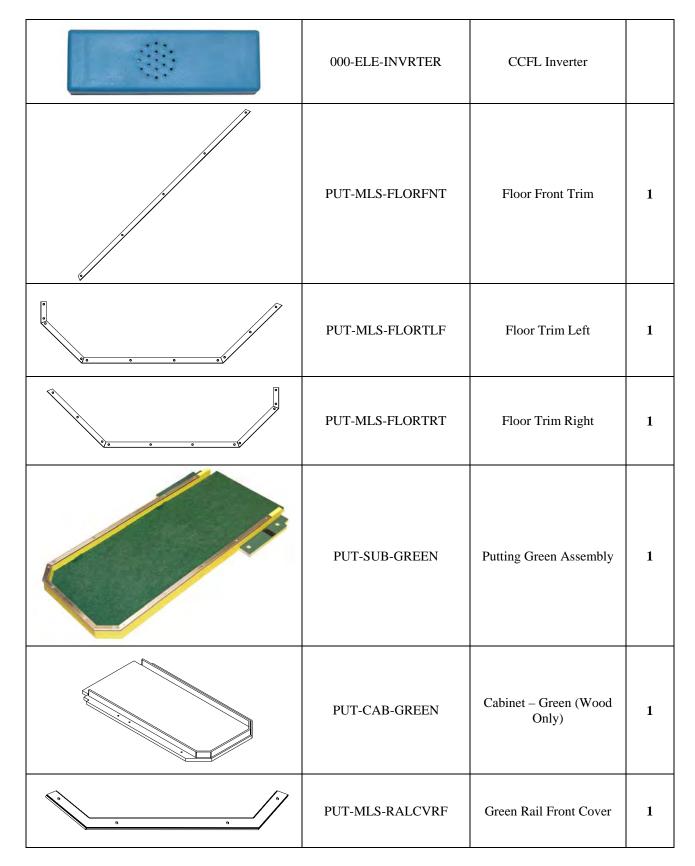
PUT-MLS-SVCPANL	Service Button Panel	2
000-HAP-MBUTTON	Mini Round Push Button, Yellow with Black Bezel	4
PUT-MLS-2COINDR	Double Coin Mech Door	1
PUT-MLS-DBADOOR	Coin Door For Dollar Bill Acceptor	1
PUT-HAP-PINDOOR	Happ Blank Pinball Door Happ Part # 40-0067-00	1
000-LCK-CH751	Lock Keyed for CH751	6
000-HAP-COINBOX	Coin Box Large Black Plastic	1

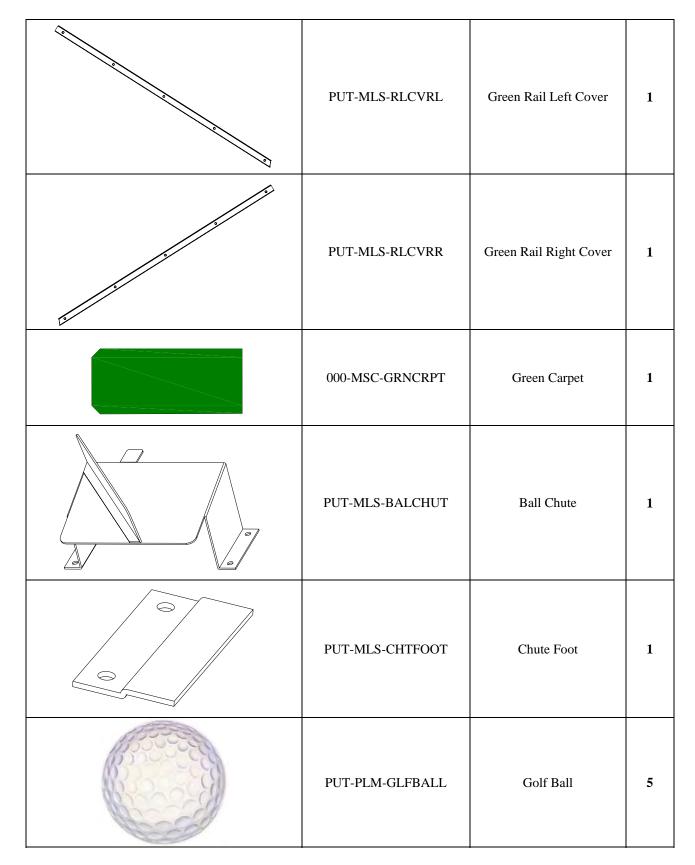
000-MCH-PRMD540	Pyramid Dollar Bill Validator (OPTIONAL)	1
PUT-HAP-MECHKIT	Replacement Parts Kit for Coin-Door Happ Part # 42-0064-200	1
PUT-HAP-PROMECH	Coin Mech Happ, \$.25 USA	1
PUT-PLS-CDORPAD	Coin Door Pad	1
PUT-MLS-CDFLCTR	Coin Deflector	1

PUT-MLS-CDORBAS	Coin Door Base	1
PUT-MLS-DORSTOP	Coin Door Stop	2
PUT-MLS-SPKGRIL	Speaker Grill	2
000-SPK-475IN8O	Speakers 4 ¾" 8 Ohm	2
PUT-MLW-FANGARD	Steel Fan Guard, 2.68" Jameco Part# 120038	2
PUT-ELE-60MMFAN	Delta DC Brushless Fan, 12VDC, 60x60x25, 23CFM, 180mA Jameco Part# 114674	1

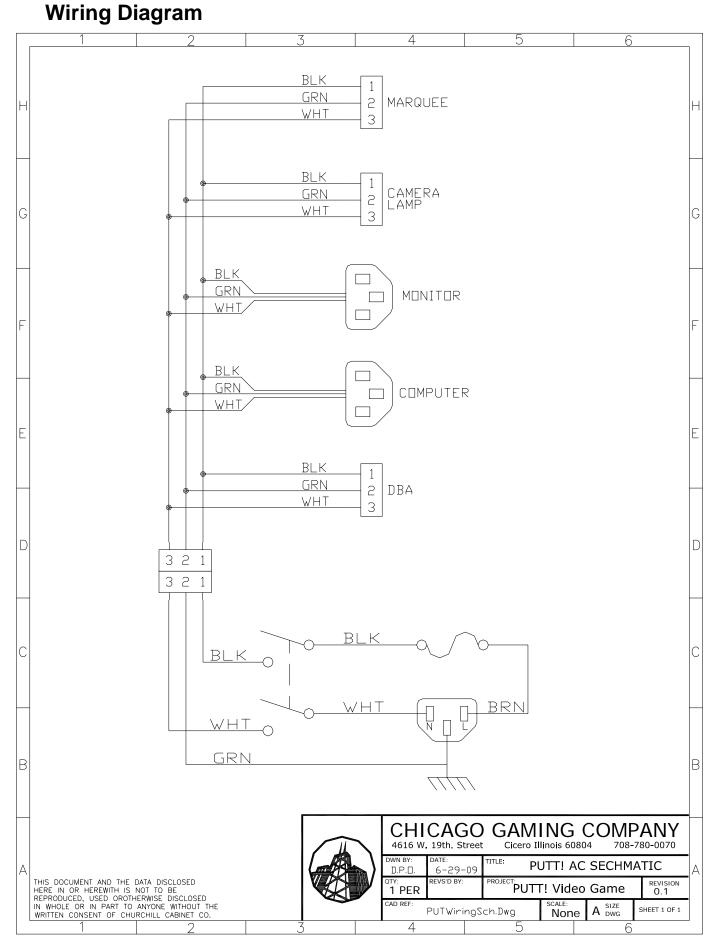
	PUT-MLT-HANDRAL	Handrail	1
C TA TATA	PUT-SUB-FLOOR	Floor Assembly	1
	PUT-CAB-FLOOR	Cabinet – Floor (Wood Only)	1
	PUT-ART-RCRNFLR	Right Corner Floor	1
	PUT-ART-LCRNFLR	Left Corner Floor	1
	PUT-ART-LTFLOOR	Left Floor	1
	PUT-ART-RTFLOOR	Right Floor	1
	PUT-ART-FTFLOOR	Front Floor	1
	PUT-ART-BCRNFL	Rear Floor	2

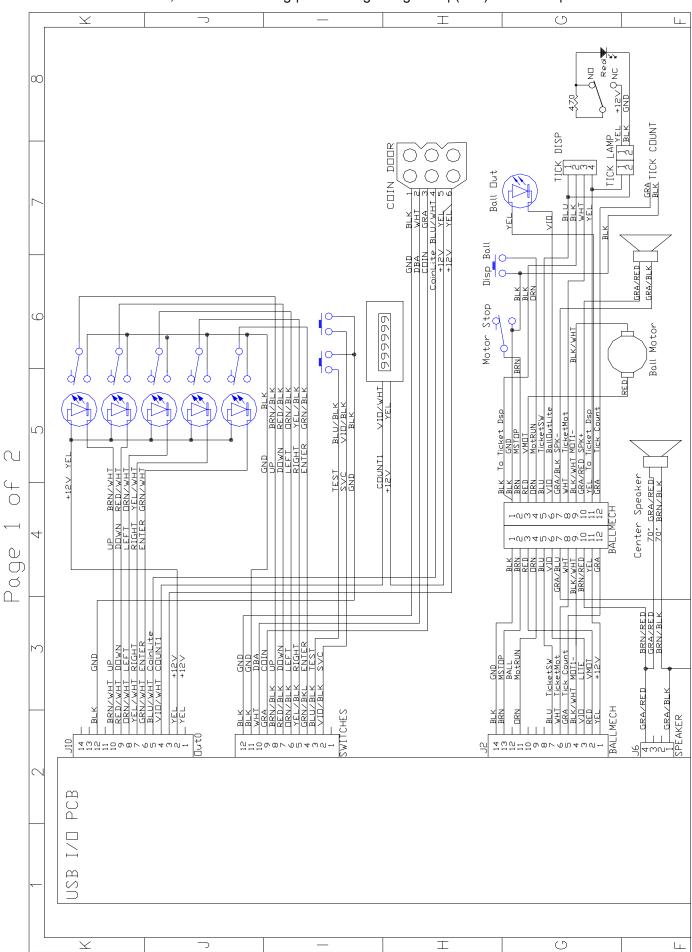
	PUT-PLS-RUBRMAT	Green Floor Rubber Mat	1
	015-MLS-CFBALST	CCFL Inverter Bracket	3
	000-LMP-12CCFL	12" CCFL White (2 Bulbs, 1 Inverter)	1
	000-LMP-14CCFLW	14" CCFL White (2 Bulbs, 1 Inverter)	1
	000-LMP-8CCFLW	8" CCFL White (2 Bulbs, 1 Inverter)	1
	000-LMP-8INBLB	Single 8" CCFL Bulb	
(000-LMP-12INBLB	Single 12" CCFL Bulb	
(000-LMP-14INBLB	Single 14" CCFL Bulb	

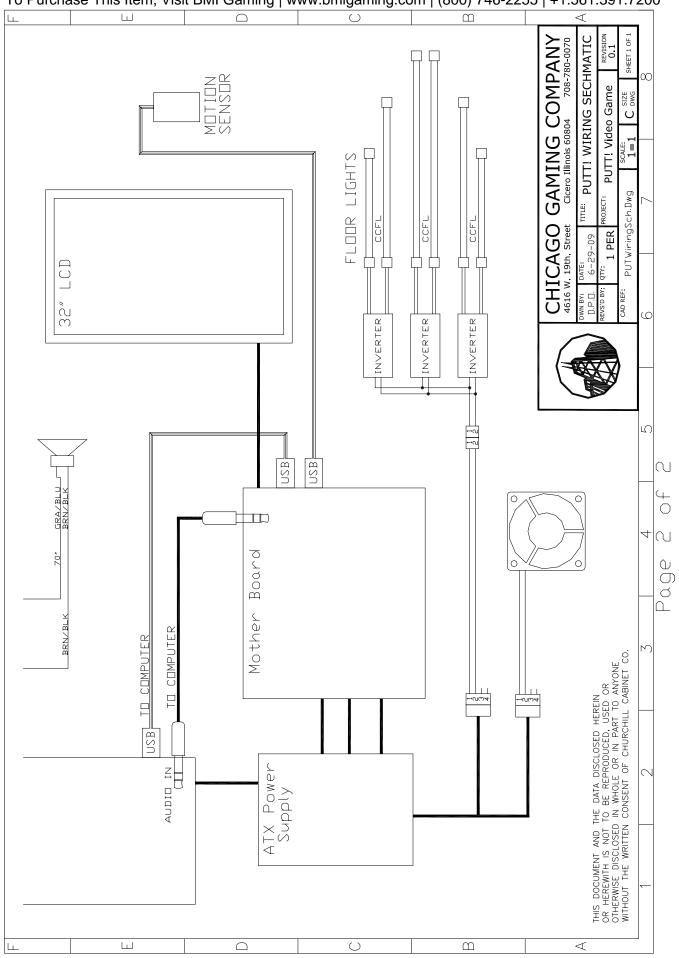












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