





TROUBLESHOOTING



CAUTION: Turn AC power off before attempting any of the following procedures, unless otherwise specified. Failure to do so may damage equipment, cause personal injury, or void warranty.

Machine Does Not Start

Syn	nptom	Problem	Suggested Solution
•	Machine appears non-functional. Audio non-functional Fan non-functional No video display	Lack of electricity	Check that power switch is on and line cord is plugged into grounded AC outlet.
		Poor AC connection	Test line cord, power plug and IEC receptacle for breaks or damage. Verify continuity of each wire.
			2. Fully seat IEC connector into cabinet receptacle.
			3. Verify wiring harness connectors are fully seated in the corresponding power supply receptacles.
			Verify AC wire connections at power supply terminals.
		Broken fuse	Replace broken fuse with identical type.
		Faulty AC line filter	Check line filter with ohmmeter to verify operation.
			2. Replace line filter if bad.
•	Machine appears non-functional. Fan functional	Wrong voltage	Using voltage meter, correctly adjust +5V output on power supply using adjustment knob.
•	Machine appears	Poor DC connection	Fully seat DC cable connectors in power supply.
•	non-functional. Fluorescent light functional		Check power supply DC fuse. Replace broken fuse with one with identical current and voltage rating.
		Short circuit on CPU board assembly	Place CPU Board Assembly in known working machine to verify operation.
			4. Replace faulty assembly with identical one.
•	Machine appears non-functional. Currency acceptor price indicator is illuminated. Power supply fan functional	Poor connection across CPU Board Assembly	 Inspect CPU Board Assembly under low light levels. When board gets DC power, its LEDs glow, although voltages or signals may be incorrect. Turn AC power off. Ensure JAMMA connectors are fully seated onto mating CPU Board connector.
•			3. Turn AC power on. Using 20-volt DC setting on a digital voltmeter, measure DC voltages at the hard drive power connector pins. Adjust +5V source if necessary. Refer to Cabinet Wiring Diagram for wiring information and voltage limits
			4. Using 2-volt AC setting on a digital voltmeter, measure same DC voltages as above. Any reading here indicates that supply voltages are unstable and may contain ripple or noise.
•	Power-Up Self-Test runs. Attract Mode does not begin.	Faulty hard disk drive	Turn AC power on. Press TEST MODE pushbutton to access Menu System. From DISK TESTS Menu, choose DRIVE READ TEST. This indicates whether hard disk drive mechanism is functional.
•	Audio non-functional		 Turn AC power off. Unlock and open rear door. Inspect board assemblies. Check that hard disk drive ribbon cable connector is fully seated in the mating connector on the CPU Board Assembly. Verify that all drive mounting screws are installed.

	3. Check that hard disk drive is correct part. A label with assembly number and software version appears on each drive.
Wrong component	Verify that ROM instruction set and CPU Board set are correct. Components are marked with manufacturer name, assembly number and hardware version.
Wrong voltage	1. Turn AC power on. Using 20-volt DC setting on a digital voltmeter, measure DC voltages present at power connector pins. Verify +5V source if it is adjustable. Refer to cabinet Wiring Diagram.
	 Using the 2-volt AC setting on a digital voltmeter, measure the same DC voltages as above. Any reading indicates that the supply voltages are unstable and may contain ripple or noise.

Audio Problems

Symptom	Problem	Suggested Solution
Video functionalGame functionalAudio non-functional	Poor connection	Press TEST MODE pushbutton to enter Menu System. Choose ADJUST VOLUME. Ensure Attract Mode and game volume levels are not at zero. Adjust levels if necessary to produce sound.
		2. Inspect wiring harnesses and verify connections as indicated by the Cabinet Wiring Diagram.
		3. Using 20-volt DC setting on a digital voltmeter, measure DC voltages present at power connector pins. Verify +5V, -5V and +12V sources. Refer to Cabinet Wiring Diagram.
		4. Using 2-volt AC setting on a digital voltmeter, measure same DC voltages as above. Any reading here indicates that the supply voltages are unstable and may contain ripple or noise.
	Bad IC	Place CPU Board in known good machine. Repair or replace if audio is non-functional.
Audio distorted,	Faulty speakers	Press TEST MODE to enter Menu System.
muffled, missing frequencies Low hum present		From the Self-Test Menu, choose SOUND TESTS to verify some audio circuit functions.
·		3. Turn AC power OFF. Remove grill and that each speaker is full range (100 Hz to 10 KHz response) and rated for at least 10 watts.
	Bad wiring	Turn AC power off. Remove grille. Ensure no loose parts are caught in speaker cones, terminals, mounting screws, or stuck to magnets.
		2. Ensure wiring is not reversed on a speaker. Weak, low frequencies and thin or hollow sound quality suggests incorrectly phased speakers.
		3. Verify wiring against Cabinet Wiring Diagram. Ensure there is a separate wire (not a common return) for each speaker. Ensure cabinet ground wires are connected.

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		4. Using 2-volt AC setting on a digital voltmeter, measure voltages at the speaker terminals. Any reading here indicates that supply voltages are unstable and may contain ripple or noise.
		5. Place speaker in working game to verify operation.
Audio monaural	Poor connection	Verify wiring against Cabinet Wiring Diagram. Check for shorted wires.

Controls Problems

Symptom	Problem	Suggested Solution
Joystick non- functional or functional or fu	Joystick is out of calibration	From Self-Test Menu, choose CONTROLS TEST. Follow screen instructions to recalibrate joystick.
functions erratically	Faulty wiring	Ensure wiring connectors are firmly seated in control panel and no wires are broken or pinched.
		Repair or replace damaged cables. Reposition wires as necessary to avoid cinching.
	Poorly seated potentiometer	Inspect joystick assembly. A potentiometer may not be seated snugly.
		2. Remove a spring clip to reveal potentiometer.
		3. Try rotating potentiometer. If snug, it will not turn. If it turns, push it inward while turning until you correctly realign it and it seats tightly.
		4. Replace clip and inspect other potentiometer.
	Bad potentiometer	5. Turn AC power on. Check voltage at each potentiometer. Put voltmeter leads on center tap and ground. Leave joystick in default position. Meter should read about +1.5V.
		6. Use analog or bar graph digital voltmeter for this test: Put voltmeter leads on wiper and ground. Move joystick through its range. Check for smooth, linear transition between .5V and 1.5V. If meter jumps at any point, potentiometer is bad.
		7. Replace a potentiometer that fails either test.
	Bad inline power fuse	Check voltages to CPU Board Assembly.
		2. If +5VDC is absent, replace inline fuse on power cable. Use identical type fuse and retest voltages.
	Faulty Pot Amp	Test CPU Board Assembly in working machine.
	chip	2. If joystick is still bad, repair or replace.
 Joystick slips, seems loose. Poor response. 	Nylon spacer worn by rotating bracket	Remove joystick assembly, turn upside down, and check whether there is too much play in brackets when stick moves.
		2. Invert nylon spacer 180 degrees and replace.
		3. If already inverted, replace with new spacer.

	Loose potentiometer captivating bracket	Ensure pot captivating bracket is flush to flat of pot shaft and retaining screw is secure.
 Joystick non- functional 	Faulty fuse	Replace broken fuse with identical type.
Button non- functional or functions erratically	Poor connection	Check connection and tighten.
,	Faulty button	Place button in known working machine.
		2. Replace faulty button with identical type.
Startup button bulb	Faulty bulb	Remove bulb and inspect filament.
non-functional		Replace faulty bulb with identical type.
Keypad non- Keypad non-	Poor connection	Check that connections are tight.
functional or functions erratically		Compare to Wiring Diagram to ensure accurate connections.
	Faulty keypad	Place keypad in known good machine.
		2. Replace faulty keypad with identical type.

Coin Mechanism Problems

Symptom	Problem	Suggested Solution
Currency or tokens are accepted Number of credits	Improper software settings	Press TEST MODE pushbutton. Access CONTROLS TEST. Confirm operation of each coin or bill mechanism.
per coin or bill is incorrect.		Access COIN OPTIONS. Verify that each mechanism's pricing and setup options are set correctly.
	Faulty wiring	Check that cabinet wiring is correct.
		Check that coin meter and coin switches connect properly to control input wires from JAMMA connector and CPU Board wiring.
		Ensure coin meter and coin switches connect properly to control input wires.
Currency or tokens creasented	Improper settings at	Press TEST MODE pushbutton.
are accepted.Startup fails.Audio and video functional	Menu System	Access COIN OPTIONS. Confirm pricing and setup of each mechanism.

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Bill Validator Problems

Symptom	Problem	Suggested Solution
Bill validator does not function after field installation.	Improper software settings	 Press TEST MODE to enter Menu System. Choose COIN OPTIONS. Confirm pricing and setup. If necessary, adjust pricing and setup.
Coin mechanisms functional		Check validator switch settings against manufacturer's instruction sheet.

Miscellaneous

misocharicous			
Game functionalCabinet becomes	Obstructed fan	 Check air flow at bottom and rear of cabinet. Clear obstructions. 	
warm after several hours of use.			
modis of dsc.		Move cabinet away from sources of heat.	
		4. Turn AC power off. Remove dust from vent holes with high-power vacuum cleaner.	
	Faulty wiring	Repair or replace fan wiring and connectors.	
	Faulty fan	Check operation of all fans. Replace if faulty.	
Error messages appear on screen.	Faulty hardware	Check assembly cited in message. Call authorized distributor for help with unresolved screen messages.	
Modem non- functional	Bad connection	Check that modem is well seated in PCI slot.	
	Cable disconnected	Ensure cable is well seated in jack and modem.	
	Bad phone line	Plug cable into another wall jack.	
		2. Test jack with fax machine or telephone.	
	Server down	Reattempt connection tomorrow.	
	Bad modem card	Replace faulty card with identical type	
Clock is wrong	Software set wrong	Use Set DATE/TIME in Menu System to reset clock.	
	Drained battery	Replace lithium battery with identical type.	
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