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Slot Machine Trouble Shooting



Many times when the display on the door indicates an error condition, open and close the door to reset the game and clear the error. Open the main door which clears the current game information and a "0" appears in the Coins Played window. Closing the door resets the game and the reels will spin and stop in their last valid position. The error code should clear and the digital display returns to normal game play. If the problem still exists or quickly reoccurs, use the information below to correct the problem.

Error Code

Error Description Most Common Repair 12 Battery Voltage has dropped below 2.9 V Replace ASAP due to possible RAM (memory) corruption.

Turn power off - Turn power on Open / close door to clear Replace 3.6V Lithium Battery on CPU board

21 Coin In Error Verify that comparitor is seated in all four acceptor clips

Verify that acceptor does not have coin(s) jammed Verify that the coin optics is not blocked (below comparitor)

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Ensure toggle power switch in activated (if installed)

3100 Coin Out Tilt (Hopper) Check for and clear any jammed coins in the coin out channel.

Verify that coins are not jammed behind hopper knife Check the coin out optic sensor for blockage or dirty surface

Replace hopper coin out optic

3200 Extra Coin Out (Hopper) Verify that the hopper motor brake functions

Check the coin wiper/ knife for jams - Adjust if necessary

3300 Hopper Empty This is the most common error that new slot machine owners will have because the cash out button was pushed and the number of coins in the hopper is less than the total credits to be paid out. Open the main door and check the hopper for coin level (your hopper will not dispense all of the coins), refill and close the main door. You may have to do this several times for all of the credits to be paid out.

41 Reel #1 Tilt Designated reel is misaligned or malfunctioning.

Verify reel is not unplugged.

Switch connectors from one reel to another, determine if error follows change of connectors. Try replacing reel assembly or optics if error stays with bad reel.

Clear Ram

42 Reel #2 Tilt

43 Reel #3 Tilt

44 Reel #4 Tilt

45 Reel #5 Tilt

49 Reel Mechanism Disconnected Verify reels are not unplugged

During the process of clearing error codes, you may encounter multiple 6x series errors. Just follow the information below in the "Most Common Repair" column which matches the error code on the door display.

History of Slot Machines

Slot machines were originally placed in casinos to

61 CMOS RAM Error Bad (or cleared) CMOS RAM data Press test button 3 seconds

Error code 61-1 should now be displayed Follow 61-1

61-1 Game Data Reset Close door - turn and release reset key once

62 Bad Game EPROM Check circuit board - replace Game EPROM

62-1 Data EPROM Error Check circuit board - replace Reel EPROM

65-0 Bad EPROM Device Press self test switch for 3 seconds
If error will not clear replace EPROM

65-1 Bad EPROM Data Processor could not read or write to the named chip
Press test button for 3 seconds
Error code clears from display - Close door

65-2 Game Type Mismatch

65-3 EPROM / Game Data Changed Close door - turn reset key

Error Code 65-1 or 65-2 appears in display

Follow 65-1 or 65-2

66 Game EPROM Changed Turn power off - Turn power on

67 Data EPROM Changed

68 Invalid Data EPROM Change to valid Data EPROM

Glass Kit Replacement

- 1. Turn Power Off
- 2. Replace the top piece of glass by opening the machines main door and carefully lifting the old glass

holder up and out of the cabinet frame. Install the new upper glass.

- 3. The reel glass is the most difficult piece of the glass to change out. There are two ways to change it out.
- 1. Remove the florescent lamp bulb and fixture. Once the fixture is removed you should be able to grab the old reel glass on both sides and carefully move it back and forth until it is out of the lower holder. Replace it with the new piece of glass. (Be sure that all of your stickers are attached to the new glass before installing the light and fixture.
- 2. Remove the two connectors to the display read out. Remove the three nuts that are holding the display to the main door. If the display does not easily lift up, carefully move it back and forth while lifting up. Make sure not to force it out, you may crack or split the display readout. Once removed, make sure you hold the reel glass so it does not fall out.
- 4. The belly glass is replaced by opening the lower door. Remove the small nuts from the light/glass holder. Disconnect the power supply at the wire disconnect. Carefully remove the old glass out of the machine. Install the new glass so that it is right side up when the door is in the closed position. Reinstall the light/glass holder, remembering to re-connect the power supply and tighten the screws that hold it in place.

Reel Strip Replacement

- 5. Most, but not all reel strips will be numbered either at the very bottom or on the back and at the top side of the reel strip.
- Remove old strips without damaging them and record the reel strip number in which reel that you removed it from.
- 7. Look at your new reel strip numbers and if all reel strips have the same number, it will not matter which reel basket they are installed on.
- 8. When the reel strips have ascending numbers, the lowest number strip will be installed in the left reel (#1), the next higher number strip will go to the middle reel (#2) and the last one installed in right reel (#3).

NOTE: There are some exceptions to this rule with certain game kits. If your kit does not follow these rules, I will send additional information on the correct reel strip

positioning.

- 9. Your reel strips have small notches cut in them at the bottom. There is also a notch on each reel basket outer edge. The notches on both the reel strips and the reel baskets must be installed so that their notches are aligned with each other.
- 10. Place the reel strip around the back side of the reel basket. Once you have found the notches on the reel basket, align them with the reel strips. Tuck about 4 inches of the right side of the reel strip into the groove, then allow the left side to slide into the groove. While moving the reel basket towards you, continue to allow the right then left side to slide into the groove until you have allowed the reel strip to overlap.
- 11. Follow the same procedure for the remaining two reel strips.
- 12. If the reel strips do not stick together, I have found that two-sided poster tape works well.

Chip Replacement

13. Turn Power Off

NOTE: Most game changes only require the REEL PROM to be changed. If you change your GAME PROM, you will lose the bill validator operation and will need a Set Chip to re-activate it.

- 14. Remove the coin tray and coin hopper.
- 15. Locate the round handle on the main board that is behind the hopper. Lift the handle straight up to remove the main board from the bottom board. Do not use force; there is a risk of damaging the bottom board if using excessive force.
- 16. Place the main board on a flat surface and locate the REEL PROM and GAME PROM. These are well label on the board.
- 17. ATTENTION TO DETAIL: There is a notch in each end of the chips. Determine the direction that notch is in relation to the direction the main board. The new chip

must be installed in the same direction. If the chip is not installed correctly, there is a high risk of destroying the data needed to operate the game or another function of the machine.

- 18. Locate the chip clearly marked as the REEL PROM on the main board and using a chip puller (recommended) or a small flat blade screwdriver (not recommended but can be done). Avoid damaging or bending the legs on the chip. If you do you can straighten them out only so many times then risk breaking off a leg.
- 19. Install the new REEL PROM with the notch in the same direction as the one just removed. The notch in the chip must be installed in the same direction. Use caution when installing the chip so that you do not fold over any of the legs on the PROM.
- 20. Make sure the legs are matched to the holding socket before installing. If one or more of the legs do bend, it must be straighten before proceeding. Push down on the top of the PROM firmly until the chip is seated completely into the holding socket. Visually check that all the legs are properly inserted into the holding socket. Even if one leg is not seated into the holding socket, the game will not operate.
- 21. f you do need to change the GAME PROM, follow the REEL CHIP instructions and REPLACE REEL with GAME.
- 22. To re-install the main board, use care and again DO NOT use excessive force, there is a risk of damaging the pins on the bottom board. The board must align on both sides of the tray holder. Firmly push the main board into place. It must be completely seated onto the bottom board. If it doesnt feel right, it probably isn't. Stop and try again, you will know when it is installed correctly.

Activating Software

- 23. Install the coin hopper and coin tray.
- 24. Turn on power supply.

- 25. A code of 66 or 67 may appear in the winner paid window. If one of these codes appears, turn the power off, then back on. If a 65-3 appears, turn the reset key once. 65-1 or -2 press the test switch in for 3 seconds.
- 26. A code of 61 should be displayed in the winner paid window. Press and hold the test button until you hear a ding, a code 61-1 should appear in the winner paid window.
- 27. Make sure the cash box door is closed and then close the main machine door.
- 28. Turn the jackpot reset key one time.
- 29. Allow the game to initialize and run self tests.
- 30. Have fun playing your new game!

Bill Acceptor Re-Activation - Change Coin Denomination

- 31. Turn Power Off.
- 32. Open the main machine door.
- 33. Remove the coin tray and coin hopper on upright units. These do not need to be removed in a slant top.
- 34. Locate the round handle on the main board that is behind the hopper. Lift the handle straight up to remove the main board from the bottom board. Do not use force; there is a risk of damaging the bottom board if using excessive force. Slant top models CPU board is to the far left. Pull the tray straight out.
- 35. Place the main board on a flat surface and locate the GAME PROM. This is well labeled on the main board.
- 36. ATTENTION TO DETAIL: There is a notch in each end of the chips. Determine the direction that notch is in relation to the direction the main board. The new chip must be installed in the same direction. If the chip is not installed correctly, there is a high risk of destroying the data needed to operate the game or another function of the machine.

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 - 37. Locate the chip clearly marked as the GAME PROM on the main board and using a chip puller (recommended) or a small flat blade screwdriver (not recommended but can be done) and gently pry up one side of the chip by carefully inserting the blade end of your screwdriver between the chip and its holding socket. Start at one end and cautiously pry up so slightly on that side. Repeat on other end while evenly removing it from its holding socket. Avoid damaging or bending the legs on the chip. If you do, you can straighten them out only so many times .. then risk breaking off a leg.
 - 38. Install the SET CHIP with the notch in the same direction as the one just removed. The notch in the chip must be installed in the same direction. Use caution when installing the chip so that you do not fold over any of the legs on the CHIP.
 - 39. Make sure the legs are matched to the holding socket before installing. If one or more of the legs do bend, it must be straighten before proceeding. Push down on the top of the CHIP firmly until the chip is seated completely into the holding socket. Visually check that all the legs are properly inserted into the holding socket.
 - 40. Re-install the main board, use care and again DO NOT use excessive force, there is a risk of damaging the pins on the bottom board. The board must align on both sides of the tray holder. Firmly push the main board into place. It must be completely seated onto the bottom board. If it doesnt feel right, it probably isn't. Stop and try again, you will know when it is installed correctly.
 - 41. Turn the machine power back on.
 - 42. The machine should show a "0" in the coins played LCD display. If you have no display at all, then the board or the chip is not installed correctly. Re-install the set chip and main board again until you get a "0" displayed after powering up.
 - 43. Locate the small white test button next to or behind the main power switch.

- 44. Push the button and release it one time.
- 45. The display should show a "9" and a "0" in the display window and is the correct setting for a machine without a dollar bill acceptor.
- 46. For a machine with a dollar bill acceptor, push the "Spin Reels" button one time and the display should change to and read "9-1".
- 47. Push the white test button 1 time.
- 48. The display should read 0".
- 49. Push the Spin Reels button until the display changes to the coin denomination that your machine is configured for. Example: 5 = nickel machine, 25 = quarter machine.
- 50. Push the white test button one time to save the options into memory.
- 51. A 0 win appear in the coins played window. Main board memory has been cleared and reset.
- 52. Turn the power supply off and remove the main board, just like before. Remove the Set Chip from the main board and reinstall the original Game Chip that was last installed. Again pay close attention to the direction of the notch on the chip so it is not installed backwards.
- 53. Reinstall the main board by following the same procedures as before.
- 54. Install the coin hopper and coin tray.
- 55. Turn on power supply.
- 56. A code of 66 or 67 may appear in the winner paid window. If one of these codes appears, turn the power off, then back on. If a 65-3 appears, turn the reset key once. 65-1 or -2 press the test switch in for 3 seconds.
- 57. A code of 61 should be displayed in the winner paid window. Press and hold the test button until you hear a ding, a code 61-1 should appear in the winner paid

window.

- 58. Make sure the cash box door is closed and then close the main machine door.
- 59. Turn the jackpot reset key one time.
- 60. Allow the game to initialize and run self tests.
- 61. Have fun playing your new game!

Credit or Coin Play

62. You can change the machine to either play credits or dispense coins. To change this, press your white test button until a "2 0" or "5 0" is in the winner paid window. If "2 0" appears first, press the spin reel button once and "2 1" appears which turns the sound on, turn the jackpot reset key once to advance to "5 0". Press the spin wheel button until "5 0" appears to play with credits. "5 1" or "5 2" will dispense coins when you insert a bill or a payout is due. Press the white test button to save. Continue to press white button until all settings are saved. Close cash box door and machine door.

Ram Clear

- 63. Ram Clear Procedures are normally done when error codes can not be cleared. Turn Power Off
- 64. Remove the coin tray and coin hopper.
- 65. Locate the round handle on the main board that is behind the hopper. Lift the handle straight up to remove the main board from the bottom board. Do not use force; there is a risk of damaging the bottom board if using excessive force.
- 66. Place the main board on a flat surface and locate the GAME PROM. These are well label on the board.
- 67. ATTENTION TO DETAIL: There is a notch in each end of the chips. Determine the direction that notch is in relation to the direction the main board. The new chip must be installed in the same direction. If the chip is not installed correctly, there is a high risk of destroying the

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data needed to operate the game or another function of the machine.

- 68. Locate the chip clearly marked as the GAME PROM on the main board and using a chip puller (recommended) or a small flat blade screwdriver (not recommended but can be done). Avoid damaging or bending the legs on the chip. If you do you can straighten them out only so many times then risk breaking off a leg.
- 69. Install the new RAM CLEAR with the notch in the same direction as the one just removed. The notch in the chip must be installed in the same direction. Use caution when installing the chip so that you do not fold over any of the legs on the CHIP.
- 70. Make sure the legs are matched to the holding socket before installing. If one or more of the legs do bend, it must be straighten before proceeding. Push down on the top of the CHIP firmly until the chip is seated completely into the holding socket. Visually check that all the legs are properly inserted into the holding socket. Even if one leg is not seated into the holding socket, the game will not operate.
- 72. To re-install the main board, use care and again DO NOT use excessive force, there is a risk of damaging the pins on the bottom board. The board must align on both sides of the tray holder. Firmly push the main board into place. It must be completely seated onto the bottom board. If it doesnt feel right, it probably isn't. Stop and try again, you will know when it is installed correctly.
- 73. Turn power on and press the white test switch button once. There will be a set of numbers counting up on the door. Once it is at "2 999". Turn power off and replace the original GAME PROM and follow the error code list.

If you have problems with these instructions, please email us.

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