

Owner's Manual for IGT Slot Machines



S-PLUS, S-2000, Vision & Reel Touch

S-Plus, S-2000, Vision and Reel Touch Index

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If any errors are noticed while reading this manual, please send an email to sales@azslot.com describing the error. We will then promptly fix the error and issue an update. Digital copies of this manual are available on our support section at our website.

Thank you for your purchase!

Congratulations on your recent slot machine purchase of an original Las Vegas slot machine! Each of these machines is unique, with original casino markings and have gone through extensive refurbishing to look as close as possible to their original casino configuration.

We provide our machines with a six month warranty after purchase and have put your machine through a thorough quality assurance process to make sure it meets all expectations. Your machine has been delivered with a fresh battery, newly installed software and has been thoroughly cleaned.

Before plugging in your machine, we recommend reading this manual to familiarize yourself with your slot, along with important safety considerations. We will walk you through the process of correctly setting up your machine.

Setup and safety

You may have noticed the considerable weight of your new machine. On average, IGT slots weigh 250 or more pounds. It is highly recommended to use extreme caution when moving or lifting these machines and we recommend having it installed by a professional.

Always have someone assist you when moving the machine to prevent any accidents and contact us if assistance is needed moving a slot machine to a new location. We are more than happy to assist with installations. All local slot deliveries include installation as a standard service.

The best location to place your machine is on a hard surface such as tile and on a large, well-built table or stand that is constructed to properly manage the weight. Leisure Time Slots recommends slot stands specifically designed by casinos and offers a variety of types and styles.

Carpeted surfaces are acceptable for slot machines, but we advise having a wider base to properly distribute the weight and **always** storing the machine against a wall or another machine to prevent tipping. We recommend using a surge protector for any installed machine to protect the electronics.

For location, avoid leaving slot machines in areas with heavy sunlight, heat sources or moisture. Extensive exposure to sunlight may discolor the buttons and affect the appearance of glass.

With safety always in mind, you will enjoy years of entertainment with your new machine and enjoy all that it has to offer.

What type of machine do I have?



S-PLUS - These machines can easily be identified in three ways. They usually have six serial numbers on the right side, have the 'Winner Paid' and 'Credits' meter to the left of the center of the reel glass and have the motherboard behind the hopper.

These are the older generation of IGT Machines and are much more simple than the S-2000 machines from a feature standpoint. These are extremely dependable machines and a variety of game themes are available for these machines.

They can be upgraded with progressive meters if there is a cutout on the upper glass for the meter.

S-2000 - These are the current generation of IGT machines and are highly customizable. Almost any aspect of these machines can be upgraded from the doors to the bill heads to the color of the speakers. They support many features such as:

- △ Coinless Mode Enable or disable this on setup depending on your preferences.
- A Ticket printers Cash out with your ticket printer instead of a hopper pay-out.
- A Progressive meters These can be installed above the reel glass if need be.
- * Extended memory Special boards can be installed which give more sound options.
- A Backlit Reels Certain themes emit light from the reels on winning combinations.
- A Highly upgradable Lots of game conversions available on the market. Contact us if you would like to convert your game to a new one.

These machines can easily by identified by the long meter visible to the left of the reel glass, seven serial numbers on the side or multi-denomination markings on the reel glass.

Vision - These machines appear identical to S-2000s with the distinction being a monitor on the upper glass and a bonus game. With all vision games, the upper glass does not have any light bordering the monitor and it appears flush with the glass. Vision games usually have entertaining sound effects and a fun bonus game to play.

Reel Touch - These machines are easily identified by their round top and inset monitor with an illuminated frame. They have five back-lit reels and all include fun and entertaining mini-games that are touch sensitive. Titles include *Denver Duck, Tabasco, Bucks Ahoy, The Frog Prince and Lucky Larry's Lobstermania*. All reel-touch have a similar appearance to S-2000 machines and share many of the same internal parts. They can be configured by plugging in a keyboard or tapping the screen in configuration mode.

I-Plus (Not Pictured) - These video slot and video poker are some of IGT's premium machines. They include the popular *Game King Multi-Game* and *Risque Business* games. They are most identifiable by their round top, video display and slightly curved front door.

These machines have different door opening controls than S-2000, Vision and Reel Touch machines and have touch-sensitive monitory to make selections on the screen.

A look inside your new machine

IGT Machines are built quite tough, are highly customizable and are user-friendly. Regardless of whether you have a S-PLUS, S-2000, VISION or Reel Touch machine, the controls for opening the machine and the components inside are very similar.



ALWAYS turn off the power before touching components inside the machine other than the on/off switch and MPU test button. Also, never remove the MPU tray while the machine is turned on or the board may malfunction.

Coin comparator - This device compares coins inserted into a machine with a sample coin and rejects coins that do not match. It can easily be converted to accept tokens by replacing the quarter on the comparator with a token of the same size of a quarter.

The coin comparator can easily be removed by pulling on the device until it pops out of its plastic brackets. Make sure to disconnect the wiring before removing it from the unit. Coins can be replaced by sliding the round tab above the coin.

Do not put pennies, nickels, dimes or half dollars in the comparator as any differently sized coins will not be handled correctly by the hopper and could damage it or the machine.

Coin Hopper - This bucket contains all coins accepted by the machine and pays out those coins when you choose to cash out. For machines where the ticket printer is enabled, the hopper won't pay out and will instead simply collect coins. Hoppers are necessary for all coin-enabled machines.

To remove your hopper, first remove the slot tray by grasping each side and lifting it up, then out. Once the tray is removed, pull the handle in front of the hopper straight back and the hopper will slide out.

With a new machine, we recommend at least two rolls of quarters or tokens (80 coins) to get started and we offer additional tokens if needed. You can use the same tokens available from amusement parks as long as the coins match what is in the comparator and are quarter sized.

If your machine is coinless, it will be delivered without a hopper to save on weight.

Bill Validator - The make and model may vary depending on the type installed on the machine, but either a DBV, WBA or MEI Cashflow acceptor will be present.

- ▲ **DBV acceptors** are present on IGT S-Plus machines. With these acceptors, bills will need to be inserted face up.
- ▲ WBA acceptors (pictures on the diagram to the left) have more memory to recognize a greater variation of bill types. Most are programmed to recognize new \$5, \$10 and \$20 bills. They can be removed by pulling down on the hinge below the bill bezel. These acceptors are usually found on S-2000 machines.
- A MEI Cashflow acceptors are usually found on higher-end machines and can be recognized by their distinctive yellow bill head. These accept bills in a variety of orientations, even upside-down. Push up on the bar at the base to remove the head.

MPU Tray - This tray contains the motherboard, which contains all of the game data and logic needed to run the machine. We recommend against removing the MPU unless it is absolutely necessary to do so and the machine has been turned off beforehand. Removing the MPU while the machine is on may damage the board.

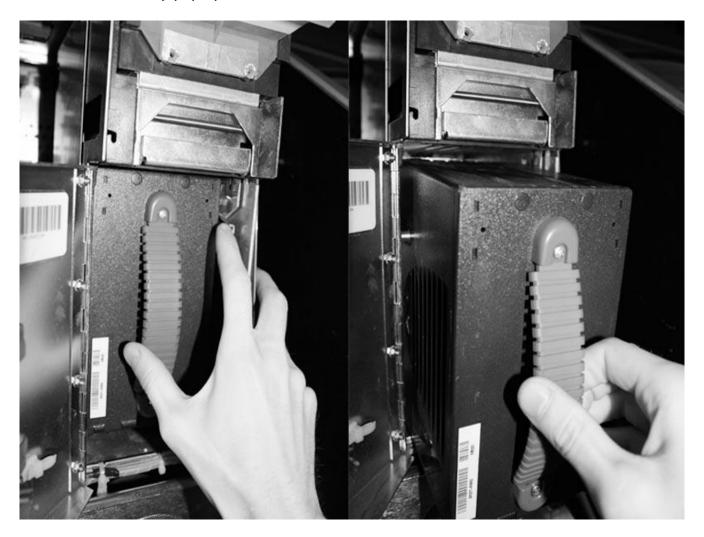
With IGT S-Plus machines, the board will be behind the hopper in an upright position.

If the machine has recently been shipped, make sure the board is firmly seated into its tray before powering on the machine. Boards sometimes become loose during shipping.

REEL TOUCH and VISION machines have the MPU trays located in the same location as a S-2000 machine. All MPUs contain EPROM chips. We recommend against removing these chips unless it is specified in the manual.

Cash Box Housing - All IGT Machines contain a cash box, with a different type of box depending on the bill acceptor being used.

To remove your DBV or WBA cash box, first open the door, then locate the latch to the right of the box. Depress the latch, then while it is held down, pull out the cash box. The bottom of the box will easily pop open to reveal the bill stacker inside.



If you are using a MEI Cashflow acceptor, just pull on the handle and the box will pop right out. Like any normal cash box, MEI Cashflow boxes pop right open to reveal the bill stacker when you remove them.

Cash boxes of any type can be upgraded with security locks if necessary and this installation can be done in as little as ten minutes. Locks can be ordered for just the cash box, or the door and cash box separately. Contact us if interested in this option.

Make sure the cash box is firmly seated and that the door is closed all the way. Otherwise, you may encounter a 'Door Open MB' error code when playing your slot machine.

Ticket Printer - These are always present on coinless machines and present on machines which accept coins but do not utilize the hopper for payouts. These printers are found on IGT S-2000, Vision and Reel Touch machines, but not S-Plus.

When ready to print a ticket, simply press the 'Cash Out' button to the left of the deck panel and the printer will write a ticket. The only limitation of the ticket printer is that bill acceptors will not accept your tickets. The tickets are intended to save time from unintentionally cashing out with a lot of credits on the machine. They also make fun souvenirs for friends and family.

Refilling your tickets is very simple. Remove the tickets and set them in the tray so that the 'Insert this side up' is visible, then fold the ticket over and feed it into the printer with the notch visible. The printer will pull in the ticket and accept it. The LED to the left of the tickets will then blink green. Push in the ticket printer until its lined up with the glass. You can now print tickets while cashing out.



Additional slot tickets are available from Leisure Time Slots with just a call or email.

Slot Machine Troubleshooting and FAQ

While slot machines are quite entertaining, they were originally built for casinos, so it can be challenging resolving technical issues in the unlikely event they should arise. Based on our knowledge, here is a list of common situations and how to resolve them.

"I recently turned the switch on and my machine does not power up."

Assuming the machine is plugged into a good outlet, check to make sure that the other side of the plug is properly connected to the power box on the inside of the machine.

On S-2000, Vision and Reel Touch machines, make sure the plug runs to the box behind the hopper. Also, check to make sure that the power supply is fully seated. This box is located behind the reels. Remove the reels and press the box to the right. If the machine does not turn on, the culprit is most likely the power supply.

On S-Plus machines, make sure the plug runs to the box to the right of the hopper and that the fuses are still good. The fuses are located underneath the cash box. Check to make sure that the MPU is fully seated in place as well.

"I just hit the cash out button and a 'Call Attendant' message is displayed."

For machines with the hopper enabled, all of the credits owed to the player must be dispensed into the coin tray before resuming play. Check to make sure enough coins are in the hopper, then close the door securely and wait for payout to resume. Once all coins are paid, the machine will behave as normal.

Some slot machines have the hopper disabled in which case the machine will dispense a ticket from the printer instead. Open the slot machine main door, then pull back the ticket printer to refill your tickets.

"The Cash out button is being hit all too frequently when guests play my machine. Can I disable it?"

The cash out button can be disabled by opening the main door and locating the cash out button, then pulling out the light socket and letting it remain in place. When the button is pressed, it won't function.

"My bill acceptor frequently rejects bills. Is there a solution?"

Take note of which directions bills are being inserted. Some bill heads such as DBV and WBAs only accept bills in while they are inserted face up in the correct direction.

Make sure to use crisp bills without any folds or tears. If the machine still has issues accepting bills such as fives or tens, try the older versions of the bills instead. If all else

fails and no bills of any type are accepted, the bill head may be dirty. There is a special procedure for cleaning bill heads and one of our technicians would be glad to look at it.

"My bill acceptor ate a bill and now it is stuck! How do I remove it?"

DBV 145/200 - Open the main door and remove the screw holding the bill head in place. Remove the transport and disconnect it from the wiring harnesses, then remove the bill head by pulling up on the handle. You can now access the transport and remove the bill.

WBA - Open the main slot door, then gently pull on the lever at the base of the bill head to pull out the transport from the machine. Look at the top of the transport for another lever, then pull up on it to flip the transport open. You can then remove the bad bill.

MEI Cashflow - Press up on the bar at the base of the Cashflow head to detach it, then inspect the transport for the bad bill.

"I am receiving a 'Door Open: MB' code when I close my main slot door on my IGT."

This error is always caused by the cash box not being closed securely. Open your main door and remove the cash box, then place it back in securely. Make sure to close the door on the cash box chassis securely in place as well. Once the main slot door is closed, this should fix the error. You can also apply some tape to the cash box door to keep it closed securely while playing your slot machine.

"A RAM Error code and an alarm sound plays when I started up my IGT Machine."

RAM Errors usually occur when the battery is very low, a battery replacement has recently occurred or EEPROMS have been replaced (such as after purchasing a game kit conversion.)

You will need to go through a clear procedure to reset the machine to factory conditions. This error can be fixed in less than an hour using a Clear and Key chip for your IGT S-2000. The end of this manual describes the clear procedures for IGT S-Plus and S-2000 machines. Following these procedures exactly will fix the RAM error.

"I cleared my machine and now have a WAMM/IPC Message. Is there a fix?"

Turn off the machine and remove the MPU, then look at the number on your SG chip. If it is SG000362, you will need an upgrade to a later Stepper Game chip. You'll need chips SG000353 GME 1 and 2, then do the clear process using these chips to fix this error.

"A NETPLEX Link Down error is displaying when starting up my IGT S-2000 machine and this message remains displayed indefinitely."

This is an issue with the power supply and the only solution is to replace the power supply (the metal box behind the reels) with a new one. Send us your old power supply and we'll

send you a new one.

"I am having trouble fully closing my slot door. Is there a simple solution?"

First, try not to force your door closed. Take a look and make sure the door is not pinching any wiring or contacting the bill bezel when closing. If the door is able to close fine but there is difficulty closing and securing the door latch, power down the machine and apply some WD-40 to the latch inside the door and wipe down the contact areas for the latch. This should lubricate the door so it is easy to close.

"The text on my slot tickets appears spotty and difficult to read. Is this an issue with the tickets or printer?"

We recommend using slot tickets stored in a cool, dry location as tickets stored in a hot or humid environment may have issues with print quality. If the issue persists with a different set of slot tickets, then it is an issue with the printer. Contact us for a printer replacement.

"A 'Coin in reverse' error appears when paying out coins on my IGT S-2000. What is the solution?"

Most likely the hopper will need to be replaced. Contact us and we will arrange to have a new hopper sent out.

"Not every coin from the hopper is paid out before it displays a hopper empty message."

Sometimes a few stray coins remain in the hopper and don't make it to the wheel before the hopper times out. This is typical and we recommend just refilling the hopper. Make sure plenty of coins are in the hopper before cashing out.

"Some quarters seem to be accepted while other quarters are not accepted. Any reason for this?"

Quarters older than 1965 have a different metal content, so we recommend using newer quarters. We also recommend replacing the quarter in the comparator with a new one.

"Coins are not being accepted when dropping them into the comparator."

Open the main slot door and take a look at the comparator to make sure a green light is visible. If it is not, some of the wiring likely came unplugged. On all IGT Models, there are three wires for the comparator that need to be plugged in. Double check all of these wires. Also, check the connection to the green block underneath the comparator to make sure the connection is good.

Also check to make sure the coin in the comparator is legible and consistent with the coins

being fed into the comparator.

"I recently purchased coin optics for my coinless IGT S-2000 machine and installed everything correctly. The machine still doesn't accept coins!"

The machine will need to be cleared and reset to factory settings with the coin properly connected to the machine.

"A coin jam has occurred. What is the recommend fix to clear this error?"

We recommend first turning off the machine, then opening the main door and carefully removing the coin comparator. Any jammed coins should easily fall out. Inspect the comparator from the top and check to make sure no other coins are jammed.

Jams usually occur if coins are dropped in too quickly or if an incorrect coin type happens to fall into the coin head. Replace the coin comparator carefully and turn the machine back on.

"One or more of my buttons appears dim or doesn't light up at all."

A bulb replacement is recommended. Contact us for the appropriate bulbs.

"One of my buttons no longer works, but it lights up."

Tap down the button and listen for a click. If there is no click, then the button became disengaged from its switch. To fix this, open the main door and power down the machine, then look at the buttons. Pop any loose buttons firmly back into place. Also check the wiring to make sure that all of the buttons are consistently wired.

"My fluorescent bulbs will not start at all. I've replaced the bulbs with new ones and this hasn't fixed the issue."

This is most likely caused by a bad starter or ballast. For IGT S-Plus machines, starters are located behind the top glass (near the lighting brackets) and on the inside of the main door near the hinge. It is a FS-2 starter. Make sure to power the machine down before replacing any components.

On S-2000, Vision and Reel Touch machines, a 15W Ballast is used. There are usually two one on the inside of the bottom glass and another behind the top glass.

Accessing the top glass is simple. Make sure to open the main door, then pull out the ticket printer (if any) and place your finger on the notch at the base of the plate below the glass. Lift the plate up, then swing it out from the bottom to remove it. To remove the glass, carefully lift the glass up from the bottom, then swing it out and set it on a flat surface.

General Slot Machine FAQ

"Is it possible to upgrade my machine or change my game theme?"

Please email us to discuss the upgrade you have in mind. We do offer game kit installations as well as conversions from coinless to coin-enabled machines.

"Is it legal to allow others to play my machine?"

Since running a slot machine for profit requires a casino license, our machines are offered for home entertainment only. Arizona Law permits slot machine ownership, but individuals are not allowed to run a casino out of their home or office.

"I want a new machine. Can I trade in my machine for a new one?"

Since we normally do game kit conversions, we allow trade-ins on a case by case basis depending on the machine's condition.

"What are ideal storage conditions for my machine?"

Store your machine in a dry location at room temperature and keep it out of the sunlight. It is critical to keep the machine away from any sources of heat or moisture, especially misting systems of heating devices. Excessive sunlight can damage laminate backing, glass and reel strips.

"I have children and pets in the home. What should I do to protect my machine?"

First off, make sure the machine is on a sturdy surface and is not in a location where it can be accessed. We recommend locking machines and unplugging them when not in use as well to protect the contents inside. If at any time water is spilled on the machine, leave it alone and call us immediately.

"Is it advisable to reproduce reel strips if one has become damaged?"

We recommend against reproducing strips. Not only are there copyright issues, but inkjet printed strips bleed and discolor when moisture is present in the air. We can help you locate new reel strips for your machine.

"Are machines accepting pennies or dimes available?"

Penny and dime slots are now obsolete, so parts to convert your slot are not on the market. However, multi-denomination coinless slots can be set at 1 or 10 cents a credit depending on your preferences.

Clearing your IGT S-PLUS

In the event of changing your game, switching out a battery or encountering a RAM error, your S-Plus machine will need to be reset to factory settings. To do this, you first need a clear chip, so contact us to receive one.

Keep in mind is it important to have any devices such as Coin Comparators, Bill Validators and Progressive Meters connected to your slot machine so that they are recognizes and installed to the system during the clear process.

Make sure that your battery also has a good charge. It should be between 3.2-3.6 volts when doing the clear procedure.

- 1. Power off your machine, then open the door, lift out the coin tray and remove the hopper to access the MPU. Pull up on the knob to remove the MPU from its chassis.
- 2. Locate your game chip (the EEPROM will read SP and a number).
- 3. Wedge a very small, flat-head screwdriver underneath your SP chip and carefully remove it from the board. Take note of the direction the notch on the chip is facing.
- 4. Carefully install the clear (CLR) chip in place of the previously-removed game chip. Make sure the notch on the clear chip is facing the direction indicated on the MPU.
- 5. Replace the MPU in the machine and make sure it is firmly seated, then power on the machine.
- 6. Wait about 15 seconds, then press the advance cursor button (the small white button next to the power switch inside the machine.)
- 7. The machine will start counting up on the front display. Once the counting has stopped, the RAM has cleared. Turn off the power for the machine, then remove the MPU and remove the clear (CLR) chip. Replace it with the original game chip (SP) Make sure the notch is facing the correct direction and that all the pins are properly in place.
- 8. Seat the MPU firmly back in place, then slide in the hopper and coin tray. Turn on the machine and wait several seconds.
- 9. Look at the front display. It should read 61. Push and hold the advance cursor (the white button next to the power switch) for about 10 seconds. A quick tone will play, then display a code of 61-1 on the front display.
- 10. Close the door and turn the jackpot reset key once (the brass key on the right side of the cabinet).
- 11. Wait about 15 seconds. The reels should spin once and the machine should be ready to play. Try playing a coin or two. If it works, the clear was a success.
- 12. If it does not and you get a code 65, open the door and push the advance cursor button once. Close the door and turn the jackpot reset key once again. Wait for the reels to spin, then drop in a coin.

Clearing your IGT S-2000, Vision and Reel Touch.

If a game conversion, battery replacement or RAM error recently occurred, all of the slot machine's settings will be deleted from memory and a clear procedure will be necessary to fix this.

Before doing the clear procedure, make sure your battery a 3.2-3.6 volt charge and that all chips are accounted for. Slot machines without multi-denomination need a Key 17 and IVC 97 Clear Chip. Slot machines with multi-denomination need a Key 31 and IVC 97 Clear Chip. Contact us to order these chips.

Also, make sure to have the bill validator, coin comparator and any other accessories such as ticket printers plugged in before doing a RAM Clear. This will ensure they install correctly.

- 1. Power down your machine and remove the coin tray, then remove the MPU.
- 2. Check that the Version, SG Chips (GME 1 and 2) and SB Chips are installed with the notches facing the correct direction. Remove the SB chip with a small flat-head screwdriver and replace it with the IVC 97 Clear Chip.
- 3. Make sure the Clear Chip notch is facing the right direction as indicated on the MPU.
- 4. Return the MPU to the machine, then power it on and wait for the amber lights to light up.
- 5. Repeat step 4 twice more. This will clear any residual information from memory.
- 6. Power the machine off again, then remove the MPU and replace the clear chip with the SB chip. Make sure the notch is facing the right direction.
- 7. Return the MPU to the machine and power it on, then leave the door open.
- 8. Look at the front display LED. It should read 'Testing Memory' for a moment, then an alarm sound will play and a 'RAM Error' message will appear. Turn your reset key (brass key to the right of the cabinet) four times. A message reading 'PRESS TEST SWITCH FOR 2-3 SECONDS' will display.
- 9. Press the white button at the bottom of the MPU for 2-3 seconds, then look at the front LED again. The message on the front of the machine reads 'CLOSE MAIN DOOR'.
- 10. Close the door securely and the reels will spin, then a message reading 'MACHINE TYPE MISMATCH' will display. Power down the machine.
- 11. Open the door and remove the MPU, then and replace the SB Chip with the Key Chip. Once the chip is in place with the notch facing the right direction, return the MPU to the machine and power it on. Power the machine down after the amber lights appear on the MPU.
- 12. Remove the MPU again and replace the Key Chip with the SB chip. Return the MPU to the machine and power it on again.
- 13. Leave the door open and wait for the machine to cycle, then watch the front LED for a message reading '7 KEY CHIP CONFIG'.
- 14. Button control in the Key Chip setup is as follows. Service/Change and Cash Out buttons toggle up in the menu. Spin Reels is the select button. Bet Max is to confirm. We will first establish the machine's Accounting the Denomination. Once you set the

accounting value, it cannot be changed unless the machine is re-cleared, so it is important this step is done correctly.

Press Spin Reels 4 times and the LED will read 'Accounting'.

Press the Spin Reels button again and the toggle buttons will light up. Press the Service/Change button until the desired accounting denomination appears. If your machine is set for 25 cents, select that value. If your machine is multi-denomination, select 1 cent. Press Bet Max twice to confirm your selection. There is no turning back at this point of the process.

Press Cash Out once and the LED will read 'Coin Denomination'.

Press the Spin Reels button twice.

Press the Service/Change button once and the number displayed should match your accounting denomination.

Press Bet Max twice to confirm your selection.

Press Bet Max once more and the LED will read '7.1.1 Denom'.

Press Cash Out once, then Spin Reels once.

Press Cash Out until the correct game payout percentage is found (example: 98.01%).

Press Bet Max once to confirm.

Press Cash Out 3 times and the LED should read 'Machine Type'.

Press the Spin Reels button once.

Press Cash Out once until the selection reads 'Upright'.

Press Bet Max once to confirm.

Press Cash Out once and the LED should read 'Token Payout'.

Press Spin Reels once to be given the chance to enable or disable your hopper.

If using a printer and not a hopper, press the Service light once so the LED reads 'Disabled'. Press Bet Max once to confirm.

If you are using a machine that is hopper based, you are finished with key setup at this time. If using a printer, continue the steps below.

Press Bet Max twice and the LED will read '7.1 Key Chip I Config'.

Press Cash Out once and the LED reads '7.2, Key Chip II Config'.

Press Spin Reels Once, then Cash Out once so the LED reads '7.2.2 Printers'.

Press Spin Reels twice, then Cash Out once for the LED reads 'Printer Enabled'.

Press Bet Max twice to confirm and return to the Main Menu.

Press Bet Max twice more to exit key setup. Once the machine cycles, close the main door.

You are now finished with setting up your IGT S-2000, Vision or Reel Touch machine!