

# Program Summary Report: S-Plus Stepper Slot Version SP810

#### COMPLETE SET OF SLOT GAME CHIPS

Game EPROM Erasa

Erasable Programmable Read-Only Memory. The game program is stored on this EPROM. The EPROM is a 27C512 device, and the label indicates S-PLUS GAME, the EPROM version (SP810), and the game type.

Data EPROM

The companion data EPROM is a 27C64 device that identifies the reel strip symbols and determines the game type, the pay table values, the number of reels, the maximum bet, and whether the game is a multi-line game, multi-coin game, scattered pay, or buy-a-pay game. The label indicates S-PLUS REEL and the SS number that identifies the pay table.

Set-chip

IGT utility program SET005, SET015, or SET017 is required to modify the denomination and enable/disable the bill acceptor. SET017 is required to select the SAS Electronic Funds Transfer (EFT) option. Before the EFT option can be selected with the set-chip, perform the following steps: install the game chip, enter the self test mode, specify IGT SAS as the accounting system communication type, select a non-zero mini system address, and exit the self test mode.

#### **GAME TYPES**

Type 20 (Double Chance).

#### FEATURES AND CAPABILITIES

Bill Acceptor

Acceptor model is jurisdiction-dependent, and uses bill validator software protocol version 2.5. Acceptable bill denominations are \$1, \$2, \$5, \$10, \$20, \$50, and \$100. The following exceptions are reported to SAS and XMISER: stacker jammed, cashbox removed, bill rejected, cashbox full, and hardware error. A reverse bill detected message is reported to SAS only. If the credit only option for paying bill credits is selected, the bill is paid as credits regardless of the current player initiated credit/noncredit selection. Use the set-chip to enable or disable the bill acceptor.

Bill Rejection

Feature

Bills will be rejected if any of the following conditions occur: a \$5 bill is inserted and the game denomination is \$2, a \$50 bill is inserted and the game denomination is \$20, the game denomination is higher than the bill denomination, or the credit value of the accepted bill plus any credits on the game exceeds the bill limit that is set in the self test mode.

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#### Credit Limit

Automatically matches the maximum hopper setting that can be set by DIP switch or in the self test mode. If the SAS EFT option is selected, the maximum limit cannot exceed 9,999.

### Denomination Modifications

Requires the denomination set-chip, unless the bill acceptor and SAS EFT option are disabled, in which case the denomination may be set in the self test mode. When the denomination is set to zero (none), the bill acceptor is disabled (if present). The game will not display progressive amounts and all progressive wins will cause the game to go to a hand-pay lockup condition. The denomination can be set at \$.05, \$.10, \$.25, \$.50, \$1, \$2, \$5, \$10, \$20, \$25, \$50, \$100 or zero (none). If the SAS EFT option is selected (using the set-chip), the denomination can also be set at \$500 or \$1,000.

# Electronic Funds Transfer

To use this feature, the game must be equipped with the IGT SAS EFT system; the normal IGT SAS protocol will function but none of the EFT features will be enabled. Downloads are not accepted if more than 9,998 credits are accumulated on the game. Downloaded promotional credits are intended for game play only and cannot be uploaded or cashed. Promotional credits are wagered before any other accumulated credits. If any non-cashable credits are downloaded, all credits on the machine are considered non-cashable and can only be uploaded or played.

# Hand-pay Lockup Display

The hand-pay display option is designed for use during a jackpot lockup condition and can be enabled or disabled in the self test mode. If enabled, the amount to be hand-paid by an attendant is displayed in the Credits and the Winner Paid windows while a blank appears in the Coins Played window. This information alternates with the amounts normally displayed in these windows. The hand-pay amount contains leading zeros instead of blanks so that it can be easily identified. This information is also displayed in the last 5 games recall. The tilt error codes 3100 (for an extra coin out), and 3200 (for a coin-out tilt) will also appear in the alternating display if these conditions occur while the machine is in the hand-pay lockup condition. The hand-pay display will always appear if the game locks up due to canceling credits, even if the hand-pay display option is disabled in the self test mode.

# Information Systems

Compatibility

SIS/SDS (SMART), Bally's serial SDS (XMISER), Wide Area Marketing Monitoring system (WAMM/CCOM), and IGT SAS with Electronic Fund Transfer capability.

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Machine-Generated

Attendant Request A bill rejection limit can be set in the self test mode and is designed to notify an attendant when a player is having difficulty inserting a bill into the bill acceptor. When the limit is reached, the change lamp is automatically turned on. Pressing the Change switch or inserting an acceptable bill clears the machine-generated attendant request. The Change switch should be pressed twice if the change lamp was turned on by the player prior to the machine-generated attendant request.

Mechanical Meters Counts coins in, coins out, drop, jackpots x 10, canceled credits and games played.

Progressive

Features/Displays

Link and/or standalone progressive, two-level Rapid Bonus Progressive (RBP), 8 x 8 progressive display, single level, single level alternating, or double level.

Reel Reset

To indicate that the reels are not spinning and stopping for a new game, the reels stop in reverse order (5, 4, 3, 2, 1) when resetting. The reels also stop in reverse order when the last game recall function is entered.

Reel Stops

Capable of handling 512 stops per reel.

Reel Tilt

If a tilt occurs while the reels are spinning, the reels spin very slowly until the tilt is cleared. When a tilt occurs any time other than during the random spinning period, the game will soft tilt and automatically reset itself three times. The fourth tilt is considered a hard tilt and requires an attendant to reset the machine. The soft tilt counters are independent for each reel and are cleared after each game or door closure.

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Two Stage Candle The top level signifies tilt/change conditions; the bottom level signifies jackpot/door open conditions. If the drop door is opened while the drop door option is enabled, the door open candle flashes at twice the normal door open rate. If the game is disabled, both levels are lit.

### **CLEARING CMOS TILTS**

A "61" error code appearing in the Winner Paid window indicates a CMOS error was encountered during a cold power up. A "61\_2" error code appearing in the Winner Paid window indicates a recoverable CMOS memory error occurred. Clear these tilts by opening the door and pressing the self test switch for 2 to 3 seconds. A "61 1" error code will then appear in the Winner Paid window. To clear this condition, close the door and turn the jackpot reset key. Upon clearing this tilt condition, external CMOS memory is cleared by the game only if the "61" error code was originally displayed in the Winner Paid window. CMOS memory is not cleared if the "61 2" error code was originally displayed in the Winner Paid window.

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#### DIP SWITCH OPTIONS

The dual in-line package switch selection chart is located on the processor board tray. The options for this machine are: max hopper pay, reel spin sound, fast or normal game speed, progressive enable, high/low or alternating progressive, and double or single progressive. DIP switch 8 has no function in this version; the link and standalone progressive options are set in the self test mode. The DIP switch configuration is displayed in the self test mode.

#### SELF TEST MODE

Pressing the self test switch or the Bet One Credit player switch "pages" forward through the self test mode, and pressing the Play Max Credits player switch pages backward. Changes or selections in the options pages may be made by pressing the Change switch or turning the jackpot reset key. During a tilt condition, only the WAMM/CCOM machine address may be selected or altered. The numbers appearing below enclosed in <> represent the self test page number, [] represent the option number, and {} represent the setting. The self test pages appear in the following order:

Accounting System

Communication Type Determines the communication type on channel A (DCS port).

Options are none {0}, Bally's serial SDS (XMISER)

{1}, or IGT SAS (Standard and EFT) {2}.

SAS Communication

Address <0> This page is displayed only if the communication type is SAS.

When using the SAS protocol, a machine address is required to distinguish one machine from another. The

valid address range is {001} to {127}.

WAMM/CCOM

Address <0> WAMM/CCOM is always installed on channel B (printer port).

This page allows the setting of the CCOM address. The valid address range is {00} to {63}. Once the valid range is selected, the new value must be saved by pressing the Change switch. A bell will sound when the

new address is accepted.

Player Selectable

Credit <0> [5] Options are standard credit or noncredit {0}, player initiated

credit {1} and player initiated noncredit {2}.

Mechanical Bell <0> [6]

Options are ring on hand-pays only {0} or ring on all pays {1}.

Drop-Door Switch

Edition on appear

Enable/Disable <0> [7] This page is always displayed, but can only be programmed

> under the following conditions: if there is no communication on channel A, if the communication type is XMISER, or if the communication type is SAS with a zero mini system address. (The drop door option is automatically enabled with a non-zero SAS mini system address). Options are enabled {1} or disabled {0}. If

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enabled, the number of times the drop (cash) door is opened will be monitored and displayed in the statistical data mode.

Bill Acceptor

Pay Mode <0> [8]

This option can be set so that bills are always converted to credits on the machine {1}, or to follow the player selected credit {0}. If set to follow the player selected credit, bills will be converted to credits if the player has selected the credit mode, or paid from the hopper if the player has selected the noncredit mode.

Bill Acceptor Enabled/

Disabled Display <0> [9]

Indicates if the bill acceptor is enabled {1} or disabled {0}.

Extra Coins In

Option <0>[10]

This option can be modified only if the SAS EFT option is enabled. Determines how to handle the extra coins that are received after the maximum bet is reached. Options are pay from the hopper {0} or automatically apply toward the next game {1}.

SAS EFT Enable/

Disable Display <0> [11]

Indicates that the SAS EFT option is enabled {1}, or disabled {0}.

Hand-Pay Lockup Display

Option <0> [13]

Options are enabled {1} or disabled {0}. If enabled, the hand-pay amount is displayed when the game goes into a hand-pay (jackpot) lockup condition.

Bill Acceptor Tilt

Mode Selection <0> [16]

This option can only be changed if the bill acceptor is enabled. Determines how bill acceptor tilts are handled. If set to no tilt {0}, game play continues. If set to soft tilt {1}, game play continues and the tilt lamp flashes until the tilt is cleared. Soft tilts can be cleared by a valid bill transaction, by closing the door, by entering the self test mode, by entering the display meters function in the statistical data mode, or by playing door open games. If set to hard tilt {2}, the bill acceptor is disabled, game play halts, and the tilt lamp flashes until the tilt is cleared. Hard tilts are cleared by closing the main door.

Country Code <0> [30]

Determines the country code associated with the bill acceptor.

Options are United States {37} or Canada {7}.

Progressive Option

Selection [31]

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This page is displayed only if DIP switch 5 is set for progressive (on position). Determines the type of progressive for the primary level, and if DIP switch 7 is set for double level

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progressive (on position), the secondary level. The options are: both levels link progressive {01}, primary level link progressive, secondary level standalone progressive {02}, both levels standalone progressive {03}, and primary level standalone progressive, secondary level link progressive {04}.

Partial Pay on Top Award Option [34]

Determines whether or not a partial pay is made when the top award is hit. Options are enabled {1} or disabled {0}. If enabled, the amount paid is set in the partial pay selection page.

**DIP** Switch Configuration

Display <0>

Displays whether the processor board DIP switches are on {1} or off {0}. The status of DIP switches 1 through 4 appear in the Winner Paid window, and the status of DIP switches 5 through 8 appear in the Credits window.

Input Tests <1>

Tests whether inputs (coin-in optics, Bet One Credit player switch, etc.) are active or inactive.

Output Tests <2>

Tests whether outputs (Insert Coin lamp, Coin Accepted lamp, etc.) are active or inactive.

Sound Test

Tests sounds (coin insertion, maximum coins in, etc.).

Song Test

Activates songs and allows selection of the song that is played during the special feature of the game.

Display Test <8>

Tests illumination on the player digital display and verifies that the digital display is receiving correct signals from the processor board.

Hopper Test <3>

Tests the hopper operation by paying out ten coins.

Pay Table Test <4>

Displays the game type (20), EPROM version number and reel chip number. Tests pay table values.

Reel Strip Test <5>

Verifies that the symbols appearing on the reels are correct and that the reels spin to the correct stops.

Denomination Selection/

Display <6>

Displays the current denomination. The denomination selection is available only if both the bill acceptor and EFT are disabled; otherwise, the set-chip must be used.

Max Hopper Pay <7>

Programmable only if DIP switches 1 and 2 are set for self test selection (on position); otherwise, this page is for display purposes only. Determines the maximum number of coins that may be paid out of the hopper.

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Bill Acceptor Credit Limit <7>

Determines the maximum amount of credits that can be accumulated before the bill acceptor is disabled. The limit must be less than the max hopper size or \$2,500, whichever is less.

Partial Pay Selection <8>

Determines the amount of coins to be paid from the hopper when a jackpot is hit, before a hand-pay lockup condition occurs. Cannot be set for an amount that is greater than the maximum hopper pay setting.

Progressive #1 Selection <9>

This page is displayed only if DIP switch 5 is set for progressive (on position) and the primary level is specified as standalone in the progressive option selection page. This page determines the progressive reset value [1], maximum progressive amount [2], progressive percentage [3], and current progressive amount [4] for the single-level progressive.

Progressive #2 Selection <9>

This page is displayed only if DIP switch 5 is set for progressive (on position), 7 is set for double level progressive (on position), and the secondary level is specified as standalone in the progressive option selection page. This page determines the progressive reset value [5], maximum progressive amount [6], progressive percentage [7], and current progressive amount [8] for the double-level progressive.

Link Progressive Display <9>

This page is displayed only if DIP switch 5 is set for progressive (on position) and at least one level is specified as link in the progressive option selection page. The Winner Paid window indicates which levels are enabled {1} or {2}. Press the Spin Reels player switch to display progressive information. The Winner Paid window = first 3 digits of the progressive dollar amount, and the Credits window = last 4 digits of the progressive dollar amount (does not include decimal amounts). Both external displays also show the progressive amount. Coins Played window = progressive level 1 or 2.

Rejected Bill Limit <11>

This limit determines the number of times bills can be rejected before the Change lamp is switched on. The range is 0 to 99. If set to 0, the Change lamp is never switched on because of rejected bills.

Out of Service Page <90> If enabled {1}, this function renders the machine inoperative without turning the power off. The progressive displays

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and lamps are turned off, the change candle is lit, the door candle flashes at the door open rate, and the digits I through 9 scroll across in the Winner Paid, Credits and Coins Played windows.

#### STATISTICAL DATA MODE

Turn the jackpot reset key clockwise to enter the statistical data mode. Press the Bet One Credit player switch, the Change switch, or turn the jackpot reset key to move forward from one function to the next, and press the Play Max Credits player switch to move backward.

### Display Meters Function <01>:

The Coins Played window shows the category numbers 01 through 72. The Credits window and the Winner Paid window show the category totals. Press the Spin Reels player switch or pull the handle to move forward through the categories. The categories appear in the following order:

- 01 Coins in (total wagers)
- 02 Coins out
- 03 Coins dropped
- 04 Canceled credits (hand-paid cash out amount in coins)
- 05 Games played
- 06 Amount of jackpots in coins
- 07 Door opens
- 08 Games won
- 09 Games lost
- 10 Coin-in tilts
- 11 Coin-out tilts
- 12 Power resets
- 13 Hopper empty tilts
- 14-15

(Reserved)

- 16 Games played since last door closed
- 14 Games played since last power up
- Games played with from 1 to 10 coins in (number of coins in displayed depends on options)
- 28 \$1 bills accepted
- 29 \$5 bills accepted
- 30 \$10 bills accepted

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- 31 \$20 bills accepted
- 32 Bills accepted
- 33 Coins or credits dispensed for bills
- 34 \$1 bills accepted since last meter reset
- 35 \$5 bills accepted since last meter reset
- 36 \$10 bills accepted since last meter reset
- 37 \$20 bills accepted since last meter reset
- 38 Bills accepted since last meter reset
- 39 Coins or credits dispensed for bills since last meter reset
- 40 Dollar value of all bills accepted since last meter reset
- 41 Dollar value of all bills accepted
- 42 Drop door opens
- 43 Credits played
- 44 Credits won
- 45 Credits paid
- 46 Physical coins inserted
- 47 Coins dispensed by the hopper
- 48 \$2 bills accepted
- 49 \$50 bills accepted
- 50 \$100 bills accepted
- 51 \$2 bills accepted since last meter reset
- 52 \$50 bills accepted since last meter reset
- 53 \$100 bills accepted since last meter reset
- 54 Reserved
- 55 Promotional credits downloaded
- 56 Non-cashable credits downloaded
- 57 Credits cashed out to the system
- 58 Cashable credits downloaded
- 59 (Reserved)
- 60 Processor board battery tilts
- 61 (Reserved)
- 62 Reel #1 tilts
- 63 Reel #2 tilts
- 64 Reel #3 tilts
- 65 Reel #4 tilts

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- 66 Reel #5 tilts
- 67 Reel mechanism tilts
- 68 Bill acceptor stacker jams
- 69 Bill acceptor cashbox removed
- 70 Bill acceptor cashbox full
- 71 Bill acceptor hardware tilt
- 72 Bill acceptor reverse bills

### Last 5 Games Recall Function <2>:

Winner Paid = the number and the virtual position of the reel, beginning with the most recently completed game. Credits = game being displayed. The reels spin to the reel positions of the completed game. After the last reel has been displayed, the last game Coins In, Coins Paid and Credits will be displayed in their normal locations. The hand-pay information is also displayed during the last games recall if the hand-pay display option is enabled and a hand-pay has occurred.

### Bill Acceptor Transaction <9>:

All LED displays show 9 until the Spin Reels player switch is pressed. Coins Played = last bill transaction 1 (most recent) through 5 (oldest). Winner Paid = number of coins dispensed or credits given beginning with the most recent transaction. Credits = bill denomination.

# IGT Service Utility Information <3>:

Coins Played = 3.

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# Progressive Jackpot Recall <4>:

Winner Paid = a number from 50 to 1. The progressive display shows the amount won, beginning with the most recent jackpot awarded.

### Electronic Funds Transfer (EFT) Transaction <5> through <9>:

Press the Bet One Credit player switch, the Change switch, or turn the jackpot reset key to view each category; pull the handle or push the Spin Reels player switch to view the last five transactions within each category. The category is displayed in the Coins Played window: 5 = downloaded non-cashable credits, 6 = downloaded cashable credits, 7 = downloaded promotional credits, 8 = cashouts to the system, 9 = forced cashouts to the hopper. The far left digit in the Winner Paid window = 1 (acknowledgment received, transaction processed) or 0 (no acknowledgment, transaction not processed). The far right digits in the Winner Paid window indicates the transaction status: 00 = successfully completed, 01 = no game denomination set, 03 = downloaded credit not a multiple of game

denomination, 04 = downloaded credit exceeds maximum credit limit. The Winner Paid window also alternately displays the transaction number. The Credits window = number of credits transferred, alternating with the transaction reference number; 1 represents the most recent transaction and 5 represents the oldest.

# Clearing Resettable Bill Meters <10>:

The resettable bill meters keep a count of the bill acceptor transactions since the last time the meters were cleared. If any of the resettable bill meters are not equal to zero, {8888} is displayed in both the Credits and Winner Paid windows. Press the Spin Reels player switch to clear the resettable meters. {0000} is displayed in the Credits and Winner Paid windows when the meters are cleared.

#### SAS EFT Meters Breakdown <12>:

If the main door is open, this function is not available for viewing. Pressing the Spin Reels player switch advances through the two SAS EFT meters. If the Coins Played window = 1, the Credits window = promotional credits. If the Coins Played window = 2, the Credits window = buffered credits (bill transactions, cashable downloads and non-cashable downloads).

#### REFERENCES

Refer to the appropriate IGT publication for detailed information about S-Plus software and error resolutions: S-PLUS GAME SOFTWARE p/n 821-206-00, S-PLUS TROUBLESHOOTING

p/n 821-207-00, or S-PLUS DIAGNOSTICS CARD SET p/n 821-154-04. Refer to the Reel Strip Listing for exact pay table information and symbol alignment on each reel.

Contact IGT Customer Service, 702-448-0364, between 8 a.m. and 4 p.m. PST; FAX 702-448-0675. For 24 hour technical assistance, or for a glossary of gaming terms, call 1-800-688-7890.

For viewing and downloading technical information, call the 24-hour bulletin board: 1-800-448-1221.

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