

Program Summary Report: S-Plus Stepper Slot Version SP805

COMPLETE SET OF SLOT GAME CHIPS

Game EPROM 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 (SP805), 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 TYPE

Type 2 (Haywire).

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. Use the set chip to enable or disable the bill acceptor. If DIP switch 4 is on, the bills-tohopper option is automatically enabled and all inserted bills are paid from the hopper, regardless of the game's credit type. If DIP switch 4 is off, the operator can specify in self test how inserted bills are paid. Payment can follow the player-initiated credit type, it can be set to override the game's credit type and always pay cash only, or it can be set to override the player-initiated credit type and always pay credits only. CAUTION: The bills-to-hopper feature should be used only if the machine is using Bally's serial SDS (XMISER). Otherwise, DIP switch 4 must be placed in the off position because the meters do not accurately report coin-out information when the bills-to-hopper feature is enabled.

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Bill Rejection Feature

Bills will be rejected if any of the following conditions occur: if a \$5 bill is inserted and the game denomination is \$2; if a \$50 bill is inserted and the game denomination is \$20; if the game denomination is higher than the bill denomination; or if 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.

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 both the bill acceptor and SAS EFT options 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.

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 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 256 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.

Two-Stage Candle

The top level signifies tilt/change conditions; the bottom level signifies jackpot/door open conditions. If the drop door is opened and 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 that a CMOS error was encountered during a cold power up. A "61_2" error code appearing in the Winner Paid window indicates that 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 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.

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 (switch 1 and 2), reel spin sound (switch 3), bills to hopper enabled or bill acceptor payment set in self test (switch 4), progressive enable (switch 5), high/low or alternating progressive (switch 6), double or single progressive (switch 7), and link or standalone progressive (switch 8). The DIP switch configuration is displayed in the self test mode. *CAUTION:* The bills-to-hopper feature should be used only if the machine is using Bally's serial SDS (XMISER). Otherwise, DIP switch 4 must be placed in the off position because the meters do not accurately report coin-out information when the bills-to-hopper feature is enabled.

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}.

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

Player Selectable Credit <0> [5]

Mechanical Bell <0> [6]

the Change switch. A bell will sound when the new address is accepted.

This page is not displayed if credits are accumulated on the credit meter. Options are standard credit or noncredit $\{0\}$, player initiated credit $\{1\}$ and player initiated noncredit $\{2\}$. The player initiated credit option will default to the noncredit mode when the credit meter remains at zero for more than 30 seconds, or when any accumulated credits are cashed out. The player initiated noncredit option defaults to the credit mode if the game is idle for 30 seconds, and remains in the credit mode when credits are cashed out.

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

Drop-Door Switch
Enable/Disable <0> [7]

u
or

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 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 changed only if DIP switch 4 is off. Changes to this option are ignored when the credit type is noncredit. The options are pay coins from the hopper {2}, convert bills to credits {1}, or 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. **CAUTION:** Use option 2 only if the communication type is Bally's serial SDS (XMISER).

Bill Acceptor Enabled/ Disabled Display <0> [9] Extra Coins In Option <0> [10]

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

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 whether 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 opening and 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}.

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.).

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>

The game type (2) and reel strip numbers are alternately displayed in the Winner Paid window. The EPROM version number is displayed in the Credits window. To test the pay table values, press the Spin Reels player switch. The award for a one coin bet alternates with the award for the max coin bet in the Credits and Winner Paid windows.

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 option 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. If set to less than 300 coins, the game will automatically default to 300 coins upon exiting self test.

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 8 is set for standalone progressive (off position). 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 8 is set for standalone progressive (off position). 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 DIP switch 8 is set for link progressive (on position). Winner Paid window indicates which levels are enabled {1} or {2}, Coins Played window = 9. Press the Spin Reels player switch to display progressive information. Winner Paid window = first 3 digits of the

progressive dollar amount, 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.

Bill Rejection 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 not affected by rejected bills.

Out of Service Page <90>

If enabled {1}, this function renders the machine inoperative without turning the power off. The progressive displays and lamps are turned off, the change candle is lit, the door candle flashes at the door open rate, and the digits 1 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 58. 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
17	Games played since last power up
18-27	Games played with from 1 to 10 coins in (the number of coins in displayed depends on options)
28	\$1 bills accepted
29	\$5 bills accepted
30	\$10 bills accepted
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

Last 5 Games Played 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 Coins Played, Winner Paid and Credits windows contain their normal information for the last game. 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 I (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.

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 indicate 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.

For additional information or to order manuals, contact IGT Customer Service, 9295 Prototype Drive, Reno, Nevada, (USA) 89511; telephone 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.