

***S-Plus*™ Game Software Quick Reference Cards**

SP1048 and SP1160

These cards summarize the software menus available in *S-Plus* software programs, SP1048 and SP1160.

Related Manuals: *Game Software: S-Plus Products* p/n 821-206-01

S-Plus Diagnostic Cards, SP872 p/n 821-154-06

Note: Some of the options on these cards may or may not be displayed, depending on the version of software or game type you have installed. Also, most options cannot be changed if any tilts or credits exist on the game.

For further software information, contact your IGT representative to request an appropriate Program Summary Report (PSR) for a detailed description of the game software version you are currently using. PSRs for specific game programs can also be downloaded from the IGT products area of IGT's web site.

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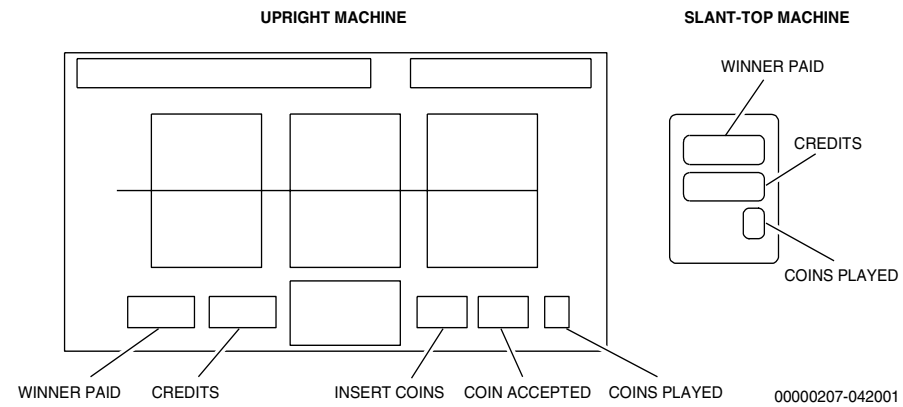
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***S-Plus* LED Display**

Options, diagnostic functions, and statistical data can be viewed on the *S-Plus* LED display assembly:



Abbreviations & General Navigation Tips

WP: Winner Paid Display Cdt: Credits Display CP: Coins Played Display

This diagnostic card set is divided into nine groups of functions that operators use to set up machine options or view diagnostic or statistical data. These groups are:

- | | |
|---|---|
| 1. Communication Options | 6. Statistical Data Mode |
| 2. Page Zero Options | 7. Display Meters Function |
| 3. Input and Output Tests | 8. Last 10 Games Recall Function and Bill Acceptor Transactions |
| 4. Miscellaneous Tests and Configurations | 9. Miscellaneous |
| 5. <i>S-Plus</i> Error (Tilt) Codes | |

Information that only pertains to SP 1048 is in [brackets]; information that only pertains to SP 1160 is in white on black background. Black text on white background pertains to either program.

The main door must be open to in order to access all options as well as the Self Test mode. To access menus, press the Self Test switch, and use this same switch to advance to the next function. Use the Reset Key to navigate within the chosen function, and use the Reset Key to advance to the next digit. Most options are changed by pressing the Spin Reels button. An underscore character (_) denotes a blank space. "X" represents any number.

Use the Reset Key to select the appropriate inputs and outputs to be tested. Press the Spin Reels button to activate outputs. A pending game or payout may limit access to the Self Test mode as well as some options; in addition, some options may require a SET Chip for changes (refer to the PSR).

Group 1: Communication Options

Group 1: Communication Options						
Self Test Switch	WP Dsp	Cdt Dsp	CP Dsp	Function	Description	Action
Press 1 Time		0–2	0	Acct. Sys. Communication Type	Options: 0: None 1: Miser 2: SAS	Increment digits by turning the Reset Key; increment next digit by pressing the Spin button. [Note: A SET Chip may be required.]
Press 2 Times*	000–127		0	SAS Address Note: Applies only when SAS is selected as the communication type.	Must be set to a non-zero address (001-127) for SAS communications.	Increment digits by turning the Reset Key; increment next digit by pressing the Spin button. Note: A SET Chip may be required.
Press 3 Times *	00–63		0	WAMM Address	Used Only for Mega-jackpot and WAMM.	Increment the digit by turning the Reset Key; increment the next digit by pressing the Spin Button. Save the setting by pressing the Change button.

Group 2: Page Zero Options

To access these options, press the Self Test switch three times; however, if the *Communication* options are set to either *None* or *Miser*, press the Self Test switch only twice.

To navigate within *Page Zero* options, use the Reset Key. "X" designates an enabled option.

Group 2: Page Zero Options					
WP Dsp	Cdt Dsp	CP Dsp	Function	Options	Action
2__x		0	Reel Spin Sound	2__0: reel spin and stop tones. 2__1: reel spin tones only.	Press the Spin button to change this setting.
5__x		0	Credit Mode	5__0: Standard Credit. 5__1: Player Initiated (credit). 5__2: Player Initiated (non credit).	Press the Spin button to change this setting.
6__x		0	Mechanical Bell	6__0: Bell rings on hand pays only. 6__1: Bell rings on all pays.	Press the Spin button to change this setting.
7__x		0	Drop Door Switch Monitoring	7__0: Disabled. 7__1: Enabled. Note: This option is automatically enabled with SAS.	Press the Spin button to change setting.

Group 2: Page Zero Options (Continued)					
WP Dsp	Cdt Dsp	CP Dsp	Function	Options	Action
8__x		0	Bill Acceptor Pay Mode	8__0: Follow Player Initiated Credit. 8__1: Convert bills to credit. 8__2: Pay coins from hopper.	Press the Spin button to change this setting. Note: DIP switch #4 must be set to "Off" in order to change this setting. Note: A SET Chip may be required.
9__x		0	Bill Acceptor Enable/Disable	9__0: Bill Acceptor Disabled. 9__1: Bill Acceptor Enabled.	A SET Chip is required to change this setting.
[10__x]		[0]	[Extra Coin Contribution]	[10__0: Extra coin paid from hopper. 10__1: Extra coin applied to next game.]	[Press the Spin button to change this setting.]
11__x		0	Coupon or EFT Enable/Disable	11__0: Coupon/EFT capability Disabled. 11__1: Coupon/EFT capability Enabled.	A SET Chip is required to change this setting.
13__x		0	Hand Pay Display	13__0: Hand-Pay Display Disabled. 13__1: Hand-Pay Display Enabled.	Press the Spin button to change this setting.

Group 2: Page Zero Options (Continued)					
WP Dsp	Cdt Dsp	CP Dsp	Function	Options	Action
16_x		0	Bill Acceptor Tilt Mode	16_0: Ignored 16_1: Soft Tilts 16_2: Hard Tilts	Press the Spin button to change this setting.
30__		0	Bill Acceptor Country Code	30____07: Canada. 30____37: United States.	A SET Chip is required to change this setting.
31_x		0	Progressive Option Selection	31_1: Both progressive levels link. 31_2: Primary link and secondary stand alone. 31_3: Both progressive levels stand alone. 31_4: Primary stand alone and secondary link.	Press the Spin button to change these settings. Note: If SP1048 is installed, this option is only displayed if DIP switch #5 is set for progressive (on). Note: If SP1160 is installed, a SET Chip is required to change this setting.
34_x		0	Partial Pay on Top Award	34_0: Disabled. 34_1: Enabled.	Press the Spin button to change this setting.
35_x		0	Progressive Level Display	35_1: Single level progressive. 35_2: Double level progressive.	A SET Chip is required to change this setting.
39_x		0	Max Bet Auto-Spin	39_0: Disabled. 30_1: Enabled.	Press the Spin button to change this setting.

Group 2: Page Zero Options (Continued)					
WP Dsp	Cdt Dsp	CP Dsp	Function	Options	Action
43_x		0	Jackpot to Credit Enable / Disable	43_0: Disabled. 43_1: Enabled.	A SET Chip is required to change this setting. Note: This option is available only if a W2G Reset switch is installed on the machine.
60_x		0	Progressive Type Display	60_0: High / low progressive. 60_1: Alternating progressive.	A SET Chip is required to change this setting.
78_x		0	Special Partial Pay	78_0: Disabled. 78_1: Enabled.	Press the Spin button to change this setting. Note: This option is not avail- able when using the SAS com- munication type.
[xxxx] [xxxx]		[0]	[DIP Switch] [Configuration]	[0: Off.] [1: On.]	[Read only.]

Group 3: Input and Output Tests

Input Tests: To access Input Tests, press the Self Test switch five times unless Communication options are set to either None or Miser, in which case press the switch only four times. Use the Reset Key to select Input Tests.

1 = High Input State (ON) 0 = Low Input State (OFF) x = 1 or 0

Group 3: Input Tests			
CP Display	WP Display	Input Test	Action
1	10_1	Coin-In Optic A.	This optic's readout displays a high (1) condition until a coin sense pulse is sent from the coin comparator.
1	11_1	Coin-In Optic B	During testing, this optic's readout changes from a high (1) to a low (0) state. Note: To test this input, the coin path must be blocked.
1	12_1	Coin-In Optic C	During testing, this optic's readout changes from a high (1) to a low (0) state. Note: To test this input, the coin path must be blocked.
1	13_0	Main Door Optic	This optic's readout toggles between a low (0) and a high (1) state when the main door is closed.
1	14_1	Coin-Out Optic	This optic's readout displays a high (1) state until the coin-out optic is blocked.
1	15_x	Hopper Full Probe	The hopper-full probe's readout changes to a high (1) state when the hopper-full probe is shorted to a ground.

Group 3: Input Tests (Continued)			
CP Display	WP Display	Input Test	Action
1	16_0	Spin/Handle Switch	To test this optic, either press the Spin button or pull the handle.
1	17_0	Reset Switch (Key)	To test this switch, turn the Reset Key. Note: Turning the Reset Key twice allows the user to advance to next input.
1	20_0	Bet One Credit Switch	To test this switch, press the Bet One Credit button.
1	21_0	Play Max Credits Switch	To test this switch, press the Play Max Credits button.
1	22_1	Cashout Switch	To test this switch, press the Cashout button.
1	23_0	Change Switch	To test this switch, press the Change button.
1	24_1	Reel Mechanism Detect	The reel mechanism detect's readout remains in a high (1) state until either a reel assembly has been disconnected or the reel harness is unplugged from mother board's connector J7.
1	25_0	Self Test Switch	To test this switch, press the Self Test switch. Note: Pressing the Self Test switch twice allows the user to advance to the Output Test.
1	26_0	Card Cage Access Switch	To test this switch, either open or close the card cage lock.
1	27_0	Bill Acceptor	When a bill is accepted, the bill acceptor's display changes states.
1	30_0	Unused	N/A

Group 3: Input Tests (Continued)			
CP Display	WP Display	Input Test	Action
1	31_1	Drop Door Access Switch	To test this switch, either open or close the drop door.
1	32_0	Jackpot to Credit Switch	To test this switch, turn the Secondary Reset Key.
1	33-37	Unused	N/A
1	40_x	Reel # 1 Optic	When Reel # 1 is moved either up or down, its display changes states.
1	41_x	Reel # 2 Optic	When Reel # 2 is moved either up or down, its display changes states.
1	42_x	Reel # 3 Optic	When Reel # 3 is moved either up or down, its display changes states.
1	43_x	Reel # 4 Optic	When Reel # 4 is moved either up or down, its display changes states.
1	44_x	Reel # 5 Optic	When Reel # 5 is moved either up or down, its display changes states.

Output Tests: To access Output Tests, press the Self Test switch six times unless the Communication options are set to either None or Miser, in which case press the Self Test switch only five times. Use the Reset Key to select the appropriate test. Activate the selected output by pressing the Spin button.

Group 3: Output Tests		
CP Display	WP Display	Output
2	10	Coin Drop Meter
2	11	Coin-Out Meter
2	12	Coin-In Meter
2	13	B Switch for SDS
2	14	Hopper Drive 2
2	15	Stepper Motor Direction
2	16	Mechanical Bell
2	17	Cancelled Credits Meter
2	20	Payline Lamp #3
2	21	Payline Lamp #4
2	22	Payline Lamp #5
2	23	Payline Lamp #6
2	24	Door Optic Transmitter

Group 3: Output Tests (Continued)		
CP Display	WP Display	Output
2	25	Games Played Meter
2	26	Bill Acceptor Enable
2	27	Jackpot Meter
2	31	Change Lamp
[2]	[32]	[Unused]
2	33	Diverter
2	34	Coin Lockout / Comparitor
2	35	Hopper Drive 1
2	36	Payline Lamp #1
2	37	Payline Lamp #2
2	40	Stepper Motor Power
2	41	Insert Coin Lamp
2	42	Coin Accepted Lamp
2	43	Low Hopper Indicator
2	44	Play Max Credits Lamp
2	45	Bet One Credit Lamp
2	46	Cashout Lamp

Group 4: Miscellaneous Tests and Configurations

Group 4: Miscellaneous Tests and Configurations				
CP Display	WP Display	Credit Display	Test/ Function	Action
Blank	5x__	Blank	Sound Test	Select the sound by turning the Reset Key; activate the test by pressing the Spin button.
[Blank]	[6x__]	[Blank]	[Song Test]	[Select the song by turning the Reset Key; activate the test by pressing the Spin button. Note: This option is only displayed if the game is either a type 4 or a type 5.]
8	8888	8888	Display Test	During this test, all digits on the display (including the imbedded progressive meters) display "8."
x	xxxx	xxxx	Display Test (page2)	During this test, all digits on the display sequentially display 0,1,2,4,and 8.

Group 4: Miscellaneous Tests and Configurations (Continued)				
CP Display	WP Display	Credit Display	Test/ Function	Action
3	__xx	Blank	Hopper Test	To activate this test, turn the Reset Key. Ten coins are dispensed from the hopper, and the Winner Paid display increments.
				To activate this test, turn the Reset Key. Ten coins are dispensed from the hopper, and the Winner Paid display increments.
				Note: If a secure count hopper and SP1160 are installed, the Credits display shows the hopper's status (left digit) and the hopper level (right digit).
				Hopper Status Description
				0 Status OK
				1 Optics Flooded with Light
				2 Coin Out Reverse Direction Directed
				3 Coin Optic Exit Time Too Short
				4 Coin Optic Exit Time Too Long
				Hopper Level Description
0 Hopper Low				
1 One-Third Full				
2 Two-Thirds Full				
3 Hopper Full				

Group 4: Miscellaneous Tests and Configurations (Continued)				
CP Display	WP Display	Credit Display	Test/ Function	Action
4	xxxx	xxxx	Paytable Test	<p>To begin this test, turn the Reset Key. The game type, SP, and SS version are shown in the Credit and Winner Paid displays. Input a physical reel position (1-22) for each reel. The Winner Paid display indicates the selected position; the Credit display indicates the selected reel. Increment the physical position by pressing the Spin button. Advance through the next two Reels' information by turning the Reset Key. When finished, turn the Reset Key a fourth time to spin the reels to their physical stops. The Credit display indicates the pay amount. The left most digit of the Winner Paid display indicates the wager amount (this amount can be changed by pressing the Spin button).</p> <p>Note: When the primary or secondary progressive combinations are tested, only the payable amount is displayed. Refer to the program's PAR sheet to obtain physical position numbers.</p>
5	xxxx	xxxx	Reel-Strip Test	<p>To begin this test, turn the Reset Key. Input the physical reel positions for each reel (refer to the Paytable Test procedures). When finished, turn the Reset Key to spin the reels. The Winner Paid and Credit displays show the reel number and the virtual range of numbers for each physical symbol. Press the Spin button to view the virtual position for each reel. Use the PAR sheet's expanded reel strip listing to verify the displayed information.</p>
6	Blank	xxxx	Denomination Display	<p>The Credit display shows current machine denomination setting.</p> <p>Note: A SET Chip is required to change this option.</p>

Group 4: Miscellaneous Tests and Configurations (Continued)				
CP Display	WP Display	Credit Display	Test/Function	Action
7	xxxx	___1	Hopper Limit	This option allows the user to set the maximum amount, in credits, that the machine pays from the hopper. Press the Spin button to increment the selected digit; use the Reset Key to advance to the next digit.
7	xxxx	___2	Jackpot Limit	This option allows the user to set the machine's jackpot limit. A single win in excess of this amount initiates a handpay lockup. Press the Spin button to increment the selected digit; use the Reset Key to advance to the next digit.
7	xxxx	___3	Credit Limit	This option allows the user to set the maximum amount of credits that can be accumulated on the machine. Press the Spin button to increment the selected digit; use the Reset Key to advance to next digit.
7	xxxx	___4	Upper Jackpot Limit	This option allows the user to set the Upper Jackpot Limit. Note: This option is displayed only if the <i>Jackpot to Credit</i> option is enabled. Refer to the PSR for detailed information.
7	Blank	xxxx	Bill Credit Limit	This option allows the user to set the maximum amount of credits that can be accumulated on the machine before the bill acceptor is disabled. Press the Spin button to increment the selected digit; use the Reset Key to advance to next digit.

Group 4: Miscellaneous Tests and Configurations (Continued)				
CP Display	WP Display	Credit Display	Test/Function	Action
8	xxxxx	Blank	Partial Pay Amount	This option allows the user to set the Partial Pay Amount. Select the digit by turning the Reset Key. The selected digit blinks. Increment the value of the digit by pressing the Spin button; when finished, press the Self-Test switch to save the new value. Note: This amount cannot exceed 9000. If this amount exceeds either the Hopper Limit or the Jackpot limit, this option is disabled.
9*	___1	Blank	Stand Alone Progressive Display	This option allows the user to set the Primary Level Stand Alone Progressive Reset Amount. Note: This option is displayed only if the Primary Level is set to <i>Stand Alone</i> . Refer to the PSR for detailed information.
9*	___2	Blank	Stand Alone Progressive Display	This option allows the user to set the Primary Level Stand Alone Progressive Maximum Amount. Note: This option is displayed only if the Primary Level is set to <i>Stand Alone</i> . Refer to the PSR for detailed information.
9*	___3	Blank	Stand Alone Progressive Display	This option allows the user to set the Primary Level Stand Alone Progressive Increment Rate. Note: This option is displayed only if the Primary Level is set to <i>Stand Alone</i> . Refer to the PSR for detailed information.

Group 4: Miscellaneous Tests and Configurations (Continued)				
CP Display	WP Display	Credit Display	Test/ Function	Action
9*	___4	Blank	Stand Alone Progressive Display	This option allows the user to set the Primary Level Stand Alone Current Amount. Note: This option is displayed only if Primary Level is set to <i>Stand Alone</i> . Refer to the PSR for detailed information.
9*	___5	Blank	Stand Alone Progressive Display	This option allows the user to set the Secondary Level Stand Alone Progressive Reset Amount. Note: This option is displayed only if the Secondary Level is set to <i>Stand Alone</i> . Refer to the PSR for detailed information.
9*	___6	Blank	Stand Alone Progressive Display	This option allows the user to set the Secondary Level Stand Alone Progressive Maximum Amount. Note: This option is displayed only if the Secondary Level is set to <i>Stand Alone</i> . Refer to the PSR for detailed information.
9*	___7	Blank	Stand Alone Progressive Display	This option allows the user to set the Secondary Level Stand Alone Progressive Increment Rate. Note: This option is displayed only if the Secondary Level is set to <i>Stand Alone</i> . Refer to the PSR for detailed information.
9*	___8	Blank	Stand Alone Progressive Display	This option allows the user to set the Secondary Level Stand Alone Current Amount. Note: This option is displayed only if the Secondary Level is set to <i>Stand Alone</i> . Refer to the PSR for detailed information.

Group 4: Miscellaneous Tests and Configurations (Continued)				
CP Display	WP Display	Credit Display	Test/ Function	Action
9*	Blank	___x	Link Progressive Display	This display indicates the number of link progressive levels enabled. Press the Spin button to view the current progressive amount for each link level. Note: This option is displayed only if at least one level is set to <i>Link Progressive</i> . Refer to the PSR for more information.
11**	xx	Blank	Bill Reject Limit	This option allows the user to determine the number of times a bill can be rejected before the change lamp is lit. Press the Spin button to increment the selected digit; use the Reset Key to advance to next digit (00-99). The Coins Paid display alternately shows each digit of each of the two-digit number.
90**	0__0	Blank	Out of Service Mode	This option allows the user to place the machine into an Out of Service mode. Press the Spin button and close the main door to activate the mode. A "1__1" on the machine's Coins Paid display indicates that the Out of Service mode has been enabled. Note: Each digit of the two-digit number, 1__1, is alternately displayed.

Group 5: *S-Plus* Error (Tilt) Codes

Note: With many tilt conditions, after all repairs and testing are complete, it is necessary to close the main door in order to clear the tilt message.

Group 5: <i>S-Plus</i> Error Codes		
Tilt Codes	Malfunction	Condition/Action Required
12	Low Battery	Replace the battery on the processor board.
21	Coin-In Jam	Check for an obstruction in coin-in path and verify ABC Optics.
23	Excessive Coins In	Check coin-in optic board for proper operation
3100	Extra Coin Out	Check the hopper brake spring, verify the coin-out optic using both the input test and the hopper test.
3200	Coin-Out Jam	Check for an obstruction in the coin-out path and verify coin-out optics using the input test.
3300	Hopper Empty	If the hopper is not empty, check for a jammed hopper by performing the hopper test.
34_0	Coin-Out Optics Flooded with Light	The Secure Count Hopper sensor has detected an attempt to cheat the hopper. Clear this tilt by closing the main door. Note: This tilt information applies only if a secure count hopper is installed.

Group 5: <i>S-Plus</i> Error Codes (Continued)		
Tilt Codes	Malfunction	Condition/Action Required
35_0	Coin-Out Reverse Direction	The Secure Count Hopper sensor has detected that an object has been inserted into the coin-out path. Clear this tilt by closing the main door. Note: This tilt information applies only if a secure count hopper is installed.
36_0	Coin Optic Exit Time Too Short	This sensor detects when the coin-out optic is blocked for a time period that is less than standard duration. Clear this tilt by closing the main door. Note: This tilt information applies only if a secure count hopper is installed.
36_1	Coin-Out Exit Time Too Long	This sensor detects when the coin-out optic is blocked for a time period that extends past the standard duration. Clear this tilt by closing the main door. Note: This tilt information applies only if a secure count hopper is installed.
41	Reel #1 Tilt	Check for an obstruction on indicated reel assembly. Exchange the reel mechanism with known working assembly, and perform either a reel strip or a paytable test. Also, verify the reel optic with an input test.
42	Reel #2 Tilt	Refer to Tilt Code 41.
43	Reel #3 Tilt	Refer to Tilt Code 41.
44	Reel #4 Tilt	Refer to Tilt Code 41.

Group 5: <i>S-Plus</i> Error Codes (Continued)		
Tilt Codes	Malfunction	Condition/Action Required
45	Reel #5 Tilt	Refer to Tilt Code 41.
49	Reel Mechanism Disconnected	Check all of the reel mechanism connectors.
61	Bad CMOS RAM	Press and hold the Self Test button for approximately two seconds. The machine sounds a tone and displays "61_1."
61_1	Game Data Reset	Close the main door and turn the Reset Key.
61_2	Recoverable CMOS Error	Press and hold the Self Test button for approximately two seconds. The machine sounds a tone and displays "61_1."
61_3	Hardware Malfunction	Press and hold Self Test button for approximately two seconds. The machine sounds a tone and displays "61_1."
62_0	Bad Game PROM	Ensure that the game prom (SP PROM) is properly inserted; replace if necessary.
62_1	Bad Data (Reel) PROM	Ensure that the data prom (Reel or SS) is properly inserted; replace if necessary.
64_1	Communication Link Down	This code indicates that a progressive link is down. Verify connections with the progressive equipment (e.g., Mikhon®, CCOM, etc.).
65_0	Bad EEPROM Device	Replace the EEPROM.
65_1	Bad EEPROM Data	Press and hold the Self Test button for approximately two seconds.
65_2	Game Type Mismatch	Press and hold the Self Test button for approximately two seconds.

Group 5: <i>S-Plus</i> Error Codes (Continued)		
Tilt Codes	Malfunction	Condition/Action Required
65_3	Game Options and Meters Not in Most Current Format	Turn the Reset Key to update the EEPROM to the new format (see 65_1). Note: The format recovery process may require a SET Chip.
66	Game PROM Changed	Cycle the machine's power.
67	Data (Reel) PROM Changed	Cycle the machine's power.
68	Non-Compatible Data (Reel) PROM	The game type is not supported; install the correct EPROM.
99_1	Stacker Jam	Check the bill acceptor transport and the cash box for a bill jam.
99_2	Cash Box Removed	Check and/or reseal the bill acceptor cash box.
99_4	Cash Box Full	Empty and/or replace the bill acceptor cash box.
99_5	Hardware Error	Exchange the bill acceptor components with a known working assembly in order to isolate the failed component(s).
99_6	Reverse Bill Detected	Check for attempted cheating. If necessary, exchange the bill acceptor transport assembly with a known working assembly.

Group 6: Statistical Data Mode

To access the Statistical Data mode, close the main door, ensure that the machine is in the Idle mode, and turn the Reset Key. Advance to each function by turning the Reset Key, and, within each function, advance by pressing the Spin button. The machine automatically exits this mode after either 60 seconds of inactivity or if its main door is closed. This mode can not be accessed if the machine is in either the Self Test and the Diagnostic mode.

Note: If this mode is accessed while the main door is open, some EFT functions will not be displayed.

Group 6: Statistical Data Mode					
Reset Key	Spin Button	WP Display	Cdt. Display	CP Display	Description
1 Time		__00	Blank	Blank	WAMM/CCOM Address
2 Times	Press to View	01__	Blank	1	Display Meters; Group 1: Master Money Accounting
3 Times	Press to View	02__	Blank	1	Display Meters; Group 2: Master Statistics Accounting
4 Times	Press to View	03__	Blank	1	Display Meters; Group 3: Master Bill Accounting
5 Times	Press to View	04__	Blank	1	Display Meters; Group 4: Master EFT Accounting
6 Times	Press to View	05__	Blank	1	Display Meters; Group 5: Period Bill Accounting
7 Times	Press to View	06__	Blank	1	Display Meters; Group 6: Security Accounting
8 Times	Press to View	07__	Blank	1	Display Meters; Group 7: Error Accounting
9 Times	Press to View	08__	Blank	1	Display Meters; Group 8: Progressive Accounting

Group 6: Statistical Data Mode (Continued)					
Reset Key	Spin Button	WP Display	Cdt. Display	CP Display	Description
10 Times	Press to Activate	Blank	Blank	2	Last 10 Games Recall
11 Times	Press to View	9999	9999	9	Displays Last Five Bill Acceptor Transactions 1 = Most Recent 5 = Oldest
12 Times	Press to View	__00		3	IGT Service Utility Information
13 Times	Press to View	50__	Blank	4	Progressive Jackpot Recall (Last 50)
14 Times	Press to View	x_xx	__x	5	EFT Transactions /Downloaded Non-Cashable Credits
15 Times	Press to View	x_xx	__x	6	EFT Transactions/Downloaded Cashable Credits
16 Times	Press to View	x_xx	__x	7	EFT Transactions/Downloaded Promotional Credits
17 Times	Press to View			8	EFT Transactions/Cashouts to System
18 Times	Press to View			9	EFT Transactions/Cashouts to Hopper
19 Times	Press to Activate	xxxx	xxxx	10	Clear Resettable Bill Meters
20 Times	Press to View	Blank	Blank	12	Coupon Credit Meters
21 Times	Press to View	Blank	Blank	17	Cumulative Coupon Capability Meters
22 Times	Press to View	Blank	Blank	18	Last 5 Coupon Transactions
23 Times					Exit

Group 7: Display Meters Function

The Display Meters function allows the viewing of machine accounting data. This data is divided into eight groups. Select the meter group by turning the Reset Key, and press the Spin button to view the data. The Winner Paid and Credit displays will alternately show the meter value and the current group and meter number.

Example: WP Display Cdt. Display

0056 4893 Coin Out Meter Value
01__ __02 Group and Meter Numbers

Group 7: Display Meters Function			
Group 1: Master Money Accounting			
01	Coin-In (Total Wagers)	08	Coin Dispensed from Hopper
02	Coin-Out	09	Credits Played
03	Drop (Bill/Coin)	10	Credits Won
04	Drop (Coin)	11	Credits Paid
05	Canceled Credits (Hand Paid CashOuts)	12	Hopper Throughput Sign (0: Positive, 1: Negative)
06	Jackpots (In Coin)	13	Hopper Throughput (Total Coin In/Out of Hopper)
07	Physical Coin Inserted		

Group 7: Display Meters Function (Continued)			
Group 2: Master Statistics Accounting			
01	Games Played	08	Games Played with 5 Coins
02	Games Won	09	Games Played with 6 Coins
03	Games Lost	10	Games Played with 7 Coins
04	Games Played with 1 Coin	11	Games Played with 8 Coins
05	Games Played with 2 Coins	12	Games Played with 9 Coins
06	Games Played with 3 Coins	13	Games Played with 10 Coins
07	Games Played with 4 Coins		
Group 3: Master Bill Accounting			
01	\$1 Bills Accepted	07	\$100 Bills Accepted
02	\$2 Bills Accepted	08	Bills Accepted
03	\$5 Bills Accepted	09	Coins or Credits Dispensed for Bills
04	\$10 Bills Accepted	10	Dollar Value of Bills Accepted
05	\$20 Bills Accepted	11	Bill Acceptor Cash Box Removed
06	\$50 Bills Accepted	12	Bill Acceptor Cash Box Full
Group 4: Master EFT Accounting			
01	Cashable Credits Downloaded	03	Promotional Credits Downloaded
02	Non-Cashable Credits Downloaded	04	Credits Cashed Out to System

Group 7: Display Meters Function (Continued)			
Group 5: Period Bill Accounting			
01	\$1 Bills Accepted Since Last Reset	06	\$50 Bills Accepted Since Last Reset
02	\$2 Bills Accepted Since Last Reset	07	\$100 Bills Accepted Since Last Reset
03	\$5 Bills Accepted Since Last Reset	08	Bills Accepted Since Last Reset
04	\$10 Bills Accepted Since Last Reset	09	Coins or Credits Dispensed for Bills Since Last Reset
05	\$20 Bills Accepted Since Last Reset	10	Dollar Value of Bills Accepted Since Last Reset
Group 6: Security Accounting			
01	Games Played Since Last Main Door Closed	03	Door Opens
02	Games Played Since Last Power Up	04	Coin Drop Door Opens
Group 7: Error Accounting			
01	Coin-In Tilts	08	Reel # 3 Tilts
02	Hopper Empty Tilts	09	Reel # 4 Tilts
03	Coin-Out Tilts	10	Reel # 5 Tilts
04	Power Resets	11	Reel Mechanism Tilts
05	Processor Board Battery Tilts	12	Bill Acceptor Stacker Jams
06	Reel # 1 Tilts	13	Bill Acceptor Hardware Tilts
07	Reel # 2 Tilts	14	Bill Acceptor Reverse Bills

Group 7: Display Meters Function (Continued)			
Group 8: Progressive Accounting			
01	Total Progressive Hits	03	Primary Progressive Hits
02	Reserved	04	Secondary Progressive Hits

Group 8: Last 10 Games Recall Function & Bill Acceptor Transactions

To access this mode, turn the Reset Key 10 times. The Coins Played display shows a “2,” and the Spin button illuminates. Pressing the Spin button repetitively (e.g., SB 1st = pressing the spin button the first time) allows the user to maneuver through the following data.

Group 8: Last 10 Games Recall Function					
Action	SB 1st	SB 2nd, 3rd*	SB 4th*	SB 5th*	SB 6th*
	The reels spin to the position of the most recent game. The Winner Paid display indicates the first reel number (1) and the stop position (before the nudge feature). The Credit display indicates the number of the game currently being displayed (1 through 10).**	The Winner Paid display indicates the next reel number (2, 3, etc.)* and the stop position (before the nudge feature). The Credit display indicates the number of the game currently being displayed (1 through 10).**	The amount won, the credits remaining, and the number of coins wagered for the game are shown in the appropriate displays.	The last cashout amount and total cashout since the end of the game (includes EFT download and using machine as a bill changer events).	The entire display process is repeated for the second, third, forth, etc. game.
<p>*The number of times that the Spin button is pushed to cycle through all of the reels and their stops depends on the number of reels installed on the machine.</p> <p>**If the installed game is a Type 1, the Credit display indicates the reel number and virtual position after nudging; if the game is either a Type 4 or a type 5, the Credits display indicates either a “0” (standard game) or a “1” (free spin game).</p> <p>Note: Use the associated PAR sheet to verify all virtual and symbol stops.</p>					

Group 8: Last 10 Games Recall Function Examples				
Example #1	Spin Button	WP Display	Cdt. Display	CP Display
	Pressed 1st Time	0_04	1____	2
		Reel # 1 at Virtual Position 04	1st Game Back	
	Pressed 2nd Time	2_12	1____	2
		Reel # 2 at Virtual Position 12	1st Game Back	
	Pressed 3rd Time	3_38	1____	2
		Reel # 3 at Virtual Position 38	1st Game Back	
	Pressed 4th Time	10____	10____	3
		Winner Paid 10	10 Credits Remaining	3 Credits Bet

Group 8: Last 10 Games Recall Function Examples (Continued)				
Example #2	Spin Button	WP Display	Cdt. Display	CP Display
	Pressed 1st Time	1_36	4_	2
		Reel # 1 at Virtual Position 36	4th Game Back	
	Pressed 2nd Time	2_14	4_	2
		Reel # 2 at Virtual Position 14	4th Game Back	
	Pressed 3rd Time	3_64	4_	2
		Reel # 3 at virtual position 64	4th game back	
	Pressed 4th Time	2/40 (Alternating)	—	1
		2 Credits Won 40 Cashed Out		1 Credit Wagered
		40_	40_	
		40 Coins Cashed Out		

Bill Acceptor Transactions: To access the Bill Acceptor Transactions mode, turn the Reset Key 11 times. Ensure that all displays show a "9." Press the Spin button to view the last five bill transactions, beginning with the most recent. The Winner Paid display shows the number of coins dispensed or credits issued for bill, the Credit display shows the bill's denomination, and the Coins Played display indicates the number of the bill currently being displayed (1 through 5).

Group 8: Bill Acceptor Transactions Example		
WP Display	Cdt. Display	CP Display
___80	___20	2
80 Credits Issued	\$20 Bill Accepted	2nd Bill Transaction

Group 9: Miscellaneous

IGT Service Utility Information (IGT Engineering Personnel Only)

To access this information, turn the Reset Key 12 times. The Coins Played display shows a “3.” The Winner Paid display shows each of the last 16 game events as a two digit code, beginning with the oldest event. Press the Spin button to view each event code.

Progressive Jackpot Recall

To view the last 50 progressive wins, turn the Reset Key 13 times. Press the Spin button to advance through each progressive win. The Winner Paid display shows the jackpot event number (50 through 1), beginning with most recent. If installed, the progressive display indicates the amount won for each jackpot event.

Electronic Funds Transfer (EFT) Transactions

EFT transactions are divided into five groups. The Coins Played display indicates the group number (5 through 9). To access the first EFT Transaction Group (the Coins Played display shows a “5”), turn the Reset Key 14 times. Press the Spin button to view the last five EFT transactions within each group.

*Alternating

Acknowledge Bit - 1= Acknowledge Received, Transaction Processed / 0 = No Acknowledge, Transaction Not Processed

Group 9: Electronic Funds Transfer (EFT) Transactions Example		
WP Display	Credit Display	CP Display
x_yy*	xxxx*	x*
x= acknowledge bit	Number of Credits Transferred	EFT Transaction Group Number
y= transaction status		
_xxx*	__x*	x*
Transaction Number	Recall Number (1-5) – 1 (Current) to 5 (Oldest)	EFT Transaction Group Number
CP Display	EFT Transaction	
5	Downloaded Non-Cashable Credits	
6	Downloaded Cashable Credits	
7	Downloaded Promotional Credits	
8	Cashouts to System	
9	Forced Cashouts to Hopper	
Transaction Status:		
00= Successfully Completed		
01= No Game Denomination Set		
03= Download Credit Not a Multiple of Game Denomination		
04= Download Credit Exceeds Credit Limit		

Clearing Resettable Bill Meters (Statistical Data Function 10)

To clear the resettable bill meters, turn the Reset Key 19 times. The Coins Played display alternately shows a "1" and a "0" indicating that the Statistical Data Function 10 has been initialized. Press the Spin button to clear meters. Both the Winner Paid display and the Credit display show a "0."

Note: If any of the Resettable Bill meters are not "zeroed out" by this process, both the Winner Paid display and the Credits display show an "8."

Coupon Credits (or EFT) Meters (Statistical Data Function 12)

To access this function, turn the Reset Key 20 times. The Coins Played display alternately displays a "1" and a "2," indicating that the Statistical Data Function 12 has been initiated.

Note: The Statistical Data mode can not be accessed if the machine's main door is open.

Press Spin button to view the Coupon/EFT meters. If the Coins Played display shows a "1," the Credit display will show the meter for promotional credits. If CP display = 2, the Credit display will show the number of buffered credits (bill transactions and cashable and non-cashable EFT downloads).

Cumulative Coupon Capability Meters (Statistical Data Function 17)

To access this function, turn the Reset Key 21 times. The Coins Played display will alternately display a "1" and a "7" indicating that the Statistical Data Function 17 has been initiated. Press the Spin button to view each category. The Coins Played display indicates the category number.

Group 9: Coupon Capability Meters	
Coins Played Display	Coupon Meter Category
1	Total Number of Coupons Accepted
2	Total Number of Cashable Coupon Credits
3	Total Number of Non-Cashable Coupon Credits
4	Dollar Value of Cashable Coupon Credits
5	Dollar Value of Non-Cashable Coupon Credits
6	Total Dollar Value of Coupon Credits

Last 5 Coupon Transactions

To access this function, turn the Reset Key 22 times. Press the Spin button to view the last five coupon transactions. The Coins Played display indicates the transaction number, beginning with most recent. The Winner Paid display indicates the number of coupon credits. The Credit display indicates the transaction type (0 = no coupon transaction, 1 = cashable coupon credits, and 2 = promotional coupon credits).