



SOUTH AFRICAN CASINO SERVICE MANUAL

ASP & SAS PROTOCOLS

VERSION 001

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1.1 **INTRODUCTION**

This document provides technical details of the Emax UP00V machine. Descriptions of the major components are followed by information on how to access and service various components in the system.

The Emax UP00V Electronic Gaming Machine has been designed so that major sub-assemblies or modules are readily accessible and removable for service or replacement. The modular approach means that a section of the machine can be easily removed, and replaced if necessary, without the need for major dismantling on site.

This manual is designed to cover Service and Operation of the Emax UP00V electronic gaming machine.

It covers software and hardware, including game installation and set-ups.

For the purposes of using this manual, when dealing with software the following guidelines should be observed.

The line buttons displayed on the bottom of the Audit screens and Diagnostics screens in this manual is based on a 25 line game.

For a 3, 5, 9 or 20 line game, please substitute line buttons as the following table and please refer to the line buttons displayed on the bottom of the actual video screen.

| LINE BUTTONS | 3 Line Game | 5 Line Game | 9 Line Game | 20 Line Game | 25 Line Game |
|-----------------------------|-------------|-------------|-------------|--------------|--------------|
| 1 ST LINE BUTTON | Line 1 | Line 1 | Line 1 | Line 1 | Line 1 |
| 2 ND LINE BUTTON | N/A | Line 2 | Line 3 | Line 3 | Line 5 |
| 3 RD LINE BUTTON | Line 2 | Line 3 | Line 5 | Line 5 | Line 9 |
| 4 TH LINE BUTTON | N/A | Line 4 | Line 7 | Line 9 | Line 20 |
| 5 TH LINE BUTTON | Line 3 | Line 5 | Line 9 | Line 20 | Line 25 |

1.2 **TECHNICAL SUPPORT**

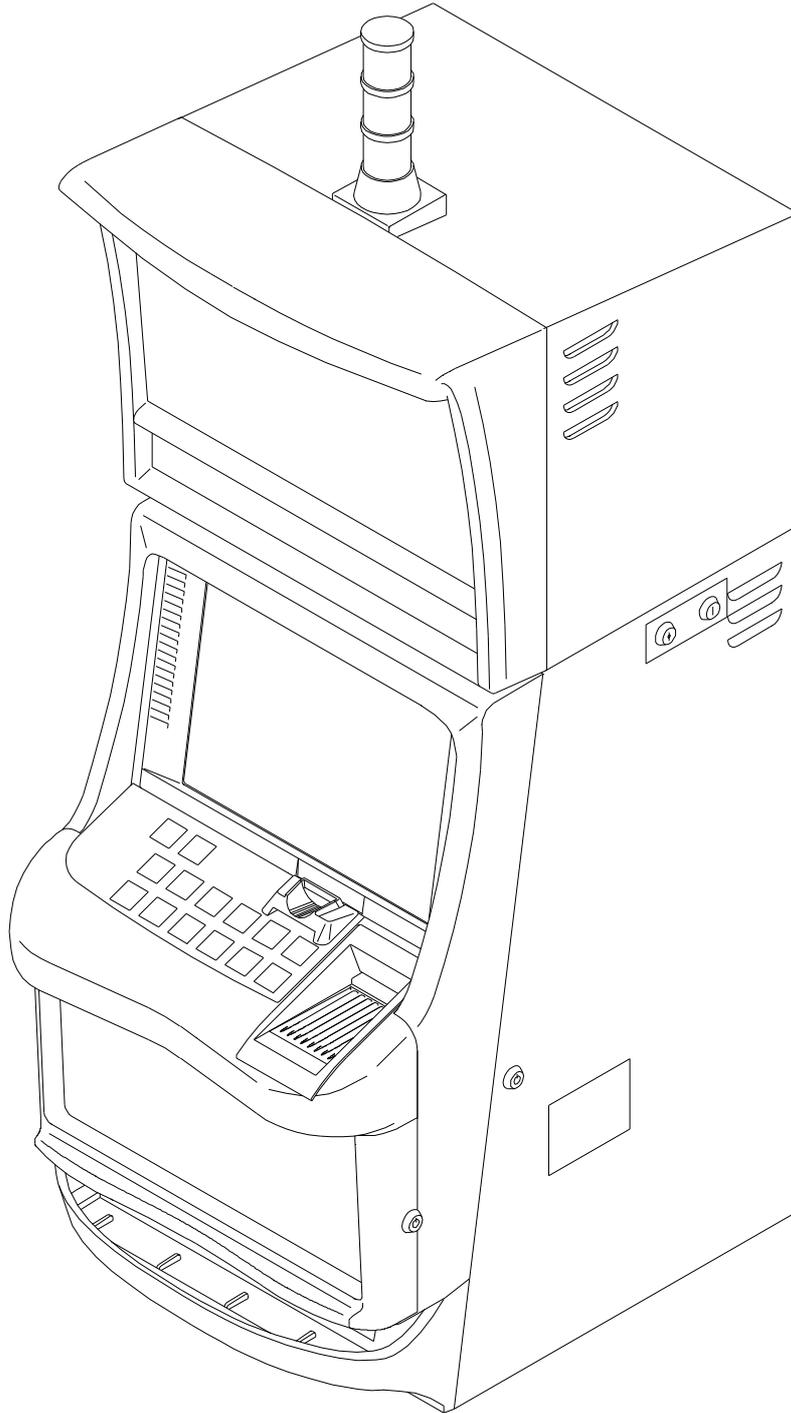
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1.3 SPECIFICATIONS

| | | |
|---|---------|-----------|
| Dimensions: | | |
| Height of Cabinet with Midway | | 1342 mm |
| Width | | 540 mm |
| Depth | | 695 mm |
| Recommended clearance between each machine: | | 240 mm |
| Weight: | | |
| Midway - unpacked | | 115 Kg |
| Power Requirements: | | |
| Mains Input Voltage | | |
| Nominal | | 240V AC |
| Minimum | | 210V AC |
| Maximum | | 264V AC |
| Power Consumption: | | |
| Idle | | 290 Watts |
| Maximum | | 340 Watts |
| Frequency: | | 50 Hz |
| Mains Input Current: | | |
| Idle | | 1.5 Amps |
| Maximum | | 1.8 Amps |
| Ambient temperature: | | |
| | Minimum | Maximum |
| Storage | 0°C | 60°C |
| Operating | 0°C | 50°C |
| Relative Humidity: | | |
| | Minimum | Maximum |
| Storage | 10% | 95% |
| Operating | 20% | 90% |
| Service GPO Outlet | | |
| Power Consumption | | 180 Watts |

1.4 EMAX EGM



1.5 INSTALLATION



Only qualified/licensed personnel can install, assemble, maintain, inspect and troubleshoot the machine.

1.6 HARDWARE INSTALLATION

1. Unpack Machine.
2. Check for any damage caused by mishandling during shipment.
3. For safety, this electronic gaming machine must be connected to a close, readily accessible power point. Ensure the Machine's ON/OFF Switch is in the OFF position.
4. Place Machine on Console Base, Open Main Door and visually check all plugs and sockets to ensure good connections unplug and remove Hopper.
5. Bolt Machine into correct location.
6. Fit venue locks, connect machine to the Local Network.
7. Replace Hopper.
8. Ensure all screws are replaced to ensure proper operation and earthing.
9. Power Machine up. Machine can now be enrolled and basic functional checks made.

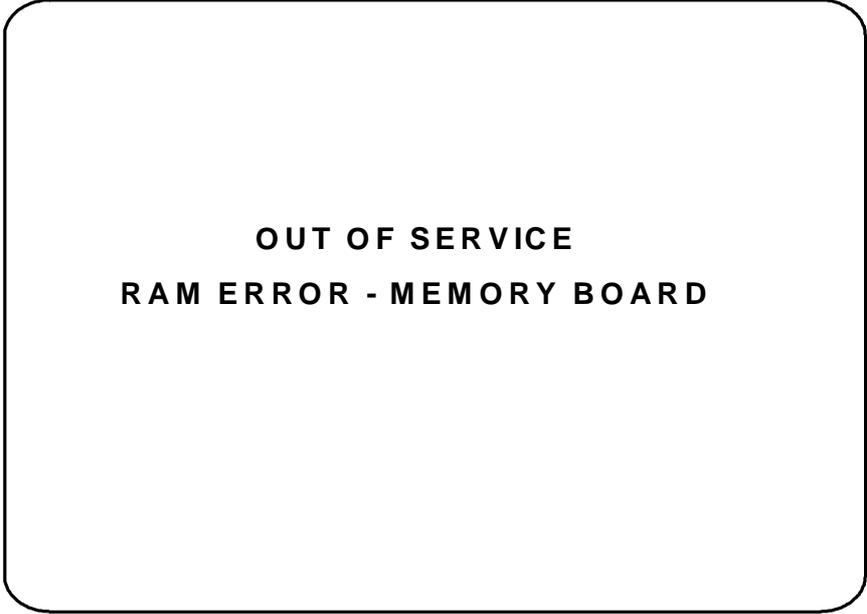
1.7 SOFTWARE INSTALLATION

1.7.1 WHEN IS RAM CLEAR PROCEDURE REQUIRED?

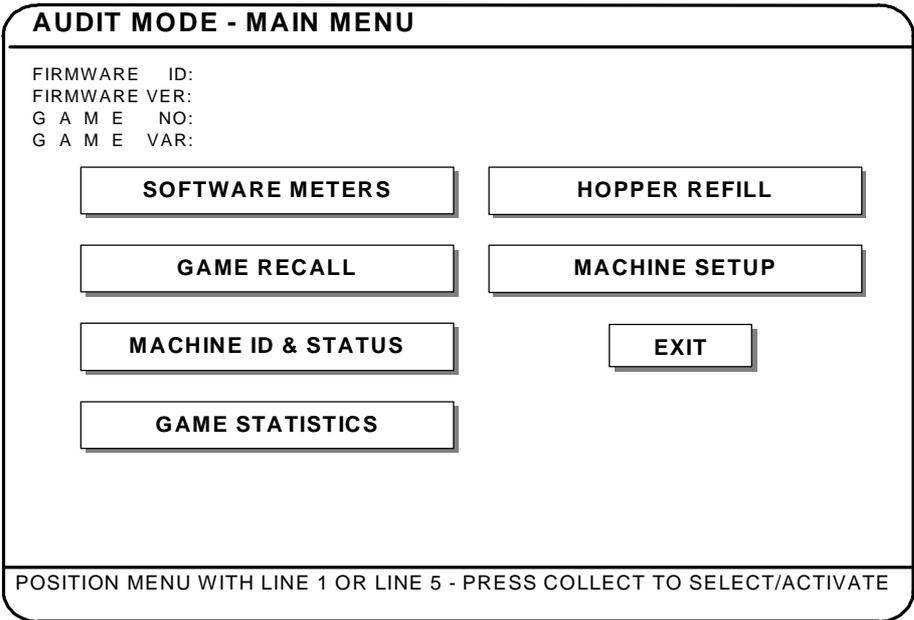
- Ø First installation.
- Ø To clear System Errors – Self Audit Error, RAM Error, etc.

1.8 RAM CLEAR PROCEDURE

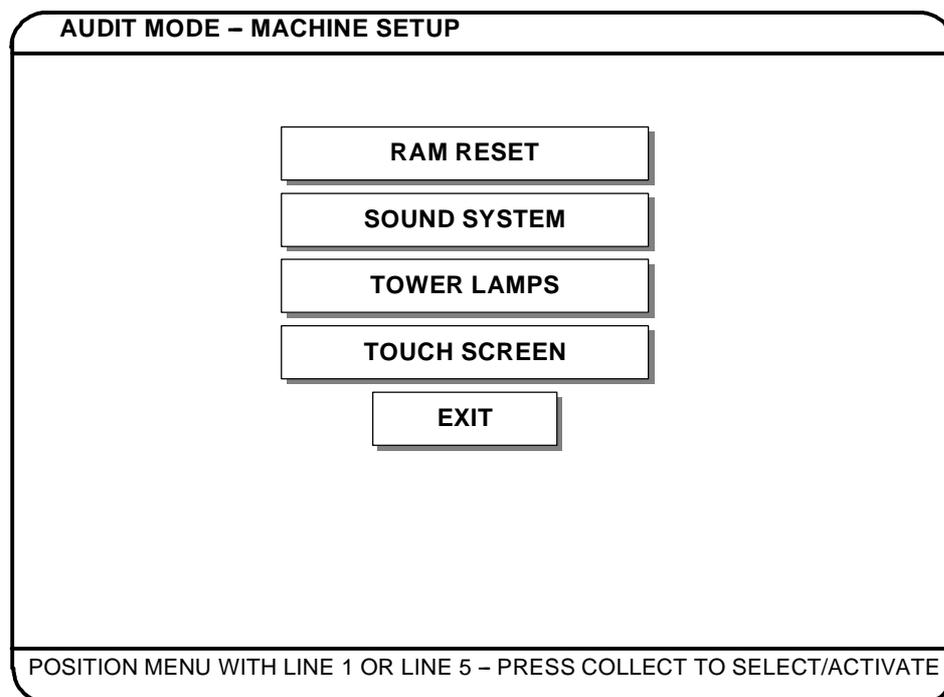
1. Open main door and open processor door.
2. Press SW1 RESET on the memory board for approximately 5 seconds.
3. Turn main power switch on - “OUT OF SERVICE - RAM ERROR” will appear on the monitor screen.



4. Turn the Reset Switch on the side of the machine anti-clockwise – the AUDIT MODE MAIN MENU will appear on the screen.



5. Select the MACHINE SETUP menu item and the MACHINE SETUP menu will be displayed.



- Select the CONFIGURE/ RAM RESET menu item and the CONFIGURE screen will be displayed.

| AUDIT MODE – CONFIGURE | | SCREEN 1 OF 1 |
|--|-----------|-------------------------|
| RAM CLEAR SETUP DATA | | |
| MACHINE SERIAL NUMBER | (GMID) | 1 |
| HOST COMMUNICATION ADDRESS | (1 - 127) | 1 |
| TOKENIZATION | (R) | 1 (NONE= CASHLESS ONLY) |
| DENOMINATION | (R) | 0.01 |
| VARIATION | | 99 (88.09%) |
| BET BUTTON CONFIGURATION | | 1, 2, 5, 10, 40 |
| CASHLESS TRANSFER FROM HOST | | YES |
| GAMBLE ENABLE | | YES |
| POWER SAVE ENABLE | | YES |
| DATE (YYYY / MM / DD) | | 2004 / 04 / 23 |
| TIME (HH : MM : SS) | | 12 : 30 : 00 |
| COIN VALIDATOR TYPE | | CONDOR FLUSCP133 |
| HOPPER TYPE | | GM |
| * CANCEL CREDIT LEVEL | (COINS) | 100 (0 = HAND PAY) |
| HOPPER REFILL AMOUNT | (COINS) | 500 |
| HOPPER LEVEL LOW LIMIT | (COINS) | 0 (0 = DISABLE) |
| BONUS / MULTIPLIER WIN FROM HOST | | YES |
| ALLOW PLAYER TO CANCEL HAND PAY | | NO |
| ALLOW PLAYER TO CASH OUT RESIDUAL CREDITS | | NO |
| CASHLESS OUT CREDIT LIMIT | | YES |
| HAND PAY CREDIT LIMIT (NON-CASHLESS MODE) | (R) | YES |
| CASH OUT CREDIT LIMIT (NON-CASHLESS MODE) | | YES |
| PROTOCOL | | SAS5.02 |
| SECURITY LEVEL | | HIGHEST |
| RESERVE BUTTON ENABLE | | NO |
| * JACKPOT HAND PAY LIMIT | (R) | 0.00 (0 = DISABLE) |
| * CELEBRATION WIN LIMIT | (R) | 0.00 (0 = DISABLE) |
| * CREDIT LIMIT | (R) | 0.00 (0 = DISABLE) |
| NOTE ACCEPTOR | | GPT V2.2 |
| R10 BANKNOTES ACCEPTED | | YES |
| R20 BANKNOTES ACCEPTED | | YES |
| R50 BANKNOTES ACCEPTED | | YES |
| R100 BANKNOTES ACCEPTED | | YES |
| R200 BANKNOTES ACCEPTED | | YES |
| THE MAIN DOOR MUST BE OPEN TO PERFORM A RAM RESET. THE MAIN DOOR AND LOGIC DOOR MUST BE OPEN TO MODIFY. * REQUIRES THE LOGIC DOOR OPEN TO MODIFY AFTER A RAM RESET. GRAY COLOUR MEANS READ ONLY AND CAN NOT MODIFY. | | |
| POSITION CURSOR WITH LINE 9 OR LINE 20 – PRESS LINE 25 TO CHANGE PRESS COLLECT TO EXIT | | |

- The main door must be open to perform a RAM reset.
- To modify the machine configuration both the main and logic cage doors must be open.
- Use the designated buttons to modify the setup options as required.

AUDIT MODE – CONFIGURE SCREEN 1 OF 1

RAM CLEAR SETUP DATA

| | | | |
|-----------------------------|-----------|------------------|-----------------------|
| MACHINE SERIAL NUMBER | (GMID) | 1 | |
| HOST COMMUNICATION ADDRESS | (1 - 127) | 1 | |
| TOKENIZATION | (R) | 1 | (NONE= CASHLESS ONLY) |
| DENOMINATION | (R) | 0.01 | |
| VARIATION | | 99 | (88.09%) |
| BET BUTTON CONFIGURATION | | 1, 2, 5, 10, 40 | |
| CASHLESS TRANSFER FROM HOST | | YES | |
| GAMBLE ENABLE | | YES | |
| POWER SAVE ENABLE | | YES | |
| DATE (YYYY / MM / DD) | | 2004 / 04 / 23 | |
| TIME (HH : MM : SS) | | 12 : 30 : 00 | |
| COIN VALIDATOR TYPE | | CONDOR PLUSCP133 | |
| HOPPER TYPE | | GM | |
| * CANCEL CREDIT LEVEL | (COINS) | 100 | (0 = HAND PAY) |
| HOPPER REBILL AMOUNT | (COINS) | 500 | |
| HOPPER 1 | | | |
| BONUS / 1 | | | |
| ALLOW PL | | | |
| ALLOW PL | | | |
| CASHLESS | | | |
| HAND PAY | | | |
| CASH OUT | | | |
| PROTOCOL | | | |
| SECURITY | | | |
| RESERVE B | | | |
| * JACKPOT HAND PAY LIMIT | (R) | 0.00 | (0 = DISABLE) |
| * CELEBRATION WIN LIMIT | (R) | 0.00 | (0 = DISABLE) |
| * CREDIT LIMIT | (R) | 0.00 | (0 = DISABLE) |
| NOTE ACCEPTOR | | GPT V2.2 | |
| R10 BANKNOTES ACCEPTED | | YES | |
| R20 BANKNOTES ACCEPTED | | YES | |
| R50 BANKNOTES ACCEPTED | | YES | |
| R100 BANKNOTES ACCEPTED | | YES | |
| R200 BANKNOTES ACCEPTED | | YES | |

WARNING

THE CREDIT LIMIT SHOULD BE BIGGER THAN
THE MAXIMUM BET XXX.XX

PRESS COLLECT TO CONTINUE

THE MAIN DOOR MUST BE OPEN TO PERFORM A RAM RESET.
THE MAIN DOOR AND LOGIC DOOR MUST BE OPEN TO MODIFY.
* REQUIRES THE LOGIC DOOR OPEN TO MODIFY AFTER A RAM RESET.
GRAY COLOUR MEANS READ ONLY AND CAN NOT MODIFY.

POSITION CURSOR WITH LINE 9 OR LINE 20 – PRESS LINE 25 TO CHANGE
PRESS COLLECT TO EXIT

If the credit limit is set less than or equal to the maximum bet amount, then the above warning message will be shown. The credit limit should be set bigger than the maximum bet to allow that the player can bet maximum bet amount at least.

7. Reset the machine with the following sequence, press LINE 1 and hold, and then press COLLECT.
8. Game symbols will appear on the screen after “DECODING IMAGES” and “DECODING SOUNDS” messages displayed.

1.8.1 How to set Jackpot Hand pay Limit & Celebration Win Limit

A traditional gaming machine which has no cashless transfer capability has only one limit – jackpot hand pay limit (or a max hopper pay limit). A single win which is bigger than or equal to the jackpot limit (or bigger than the hopper pay limit) will be hand paid by an attendant to avoid running out of coins in the hopper.

However a modern gaming machine which has cashless transfer capability has two limits – one is jackpot hand pay limit and another is celebration win limit. A single win which is bigger than or equal to the celebration win limit will be transferred out to the host or to the smart card without actual hand pay. However a single win which is bigger than or equal to the jackpot limit will be actually hand paid.

- Jackpot hand pay limit : only used in cashless mode and if a single win is bigger than or equal to this limit, then an attendant will do a hand pay.
- Celebration win limit : if a single win is bigger than or equal to this limit, then the operation differs depending on cashless mode or non-cashless mode (configurable by the RAM clear setup screen). In cashless mode, the win amount will be cashless transferred out to the host or to the smart card without actual hand pay. In non-cashless mode, the win amount will be hand paid by an attendant because the win amount can not be cashless transferred out.

There is another limit called ‘credit limit’. The credit limit is needed to disable the coin acceptor and note acceptor when the credits on the gaming machine exceed this limit to avoid too much credits accumulate on the credit meter and causes the credit meter overflow the maximum number of possible displaying digits on the screen.

If both of the jackpot hand pay limit and the celebration win limit are disabled, then the credit limit will be set same as the maximum jurisdictional credit limit (if any).

In SAS protocol, the automatic celebration win and credit limit cashless transfer out function may not work if the SAS protocol does not support automatic cash out to the host (exception 0x65, long poll 0x67, long poll 0xAA).

- Sun International casinos : SAS 4.05 customized version is used. There are two kinds of SAS 4.05 protocol. One is standard version which is used in ordinary IGT/Acres system and another is customized version which is designed to use in the Sun International GRIPS system. Only the customized SAS 4.05 version will support automatic cash out to the host.

For the cashless only casinos, set RAM clear setup as the following:

- Tokenization = NONE (cashless only)
- Cashless Out Cel.Win/CR.Limit = YES (if automatic cashless out is required for the celebration win and the win amount which caused credit limit exceeded)

For the mixed operation (cashless + coin), set RAM clear setup as the following:

- Cashless Transfer from Host = YES
- Cashless Out Cel.Win/CR.Limit = YES (if automatic cashless out is required for the celebration win and the win amount which caused credit limit exceeded)
- Hand pay Cel.Win = YES (if hand pay celebration win is required when automatic cashless out is impossible or failed - for example, a smart card is not inserted into the GRIPS system)
- Cash Out CR.Limit = YES (if hopper pay or hand pay required for the win amount which caused credit limit exceeded)

For the coin only casinos without cashless system, set RAM clear setup as the following:

- Cashless Transfer from Host = NO
- Cash Out CR.Limit = YES (if hopper pay or hand pay required for the win which caused credit limit exceeded)

- Tsogo Sun casinos : SAS 4.02 standard version is used. Automatic cash out to the host will not be supported. As a result, it is recommended to disable the celebration win limit and use the jackpot hand pay win limit only.
If celebration win limit is used, then the celebration win will be hand paid (configurable by the RAM clear setup screen).

For the mixed operation (cashless + coin), set RAM clear setup as the following:

- Cashless Transfer from Host = YES
- Cashless Out Cel.Win/CR.Limit = NO (automatic cashless out is impossible except customized version of SAS 4.05 protocol which is used in Sun International casinos)
- Hand pay Cel.Win = NO (if hand pay for the celebration win is not required)
- Cash Out CR.Limit = NO (if hopper pay or hand pay is not required for the win amount which caused credit limit exceeded)

For the coin only casinos without cashless system, set RAM clear setup as the following:

- Cashless Transfer from Host = NO
- Cash Out CR.Limit = NO (if hopper pay or hand pay is not required for the win amount which caused credit limit exceeded)

- Other casinos : SAS protocol version is backward compatible, so any SAS version up to 5.02 can be used for Emax interface. RAM clear setup is same as above Tsogo Sun casinos.

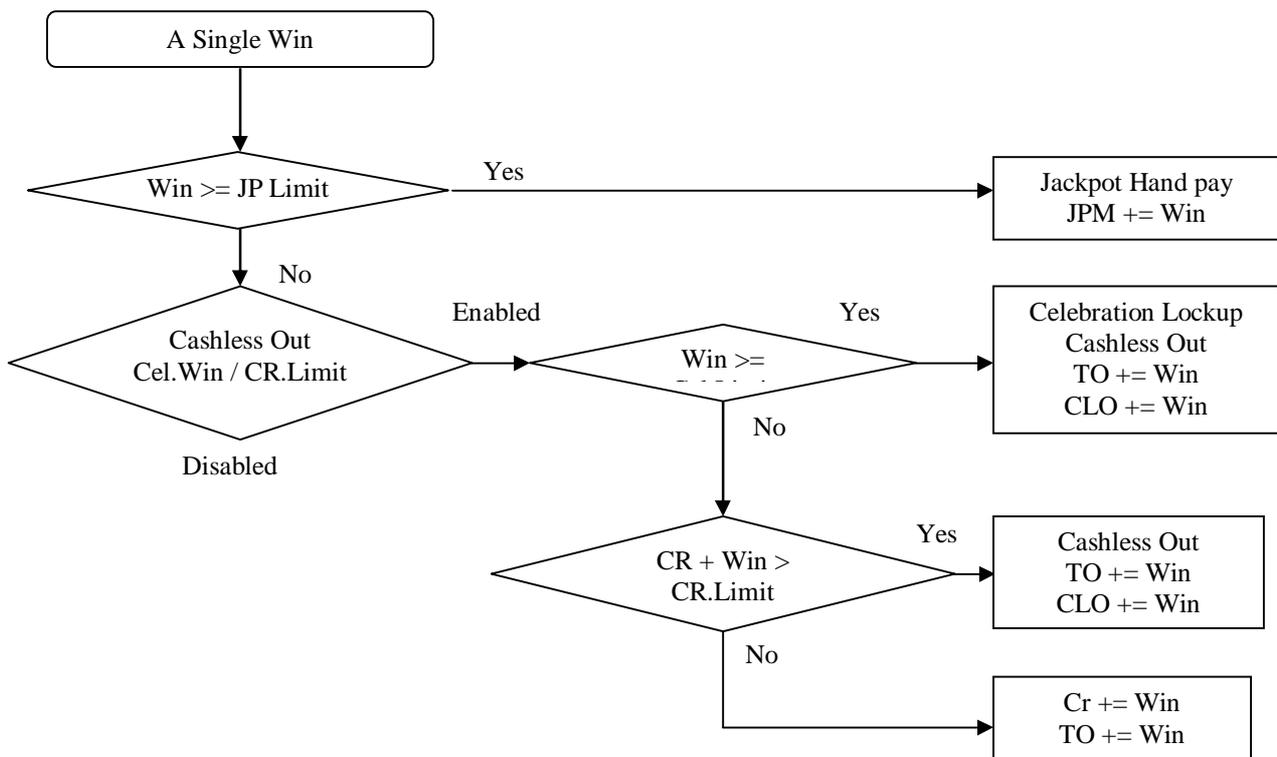
1) CASHLESS OPERATION ONLY

Token / Coin Denomination = None

Cashless Transfer From Host = Yes

Let us assume that the jackpot hand pay limit is R1000.00 and the celebration win limit is R500.00.

- Cashless mode: if a single win is bigger or equal to R1000.00 (e.g. jackpot win), then the win amount will be hand paid. If a single win is bigger or equal to R500.00 but less than R1000.00 (e.g. celebration win), then the win amount will be cashless transferred out.
- Non-cashless mode: Not applicable because the gaming machine configured as cashless operation only.
- Credit limit: if (a single win + current credit) exceeds the credit limit, then the win amount will be cashless transferred out when 'Cashless out Cel.Win/CR.Limit' is enabled.



Legend

Win: any single win
 JP Limit: Jackpot limit (Hand pay win limit)
 Cel.Limit: Celebration win limit
 CR.Limit: Credit limit
 Hopper Limit: Hopper pay limit
 JPM: Jackpot meter
 TO: Win meter except jackpot
 CLO: Cashless out meter
 CR: Current credits
 CO: Coin out meter

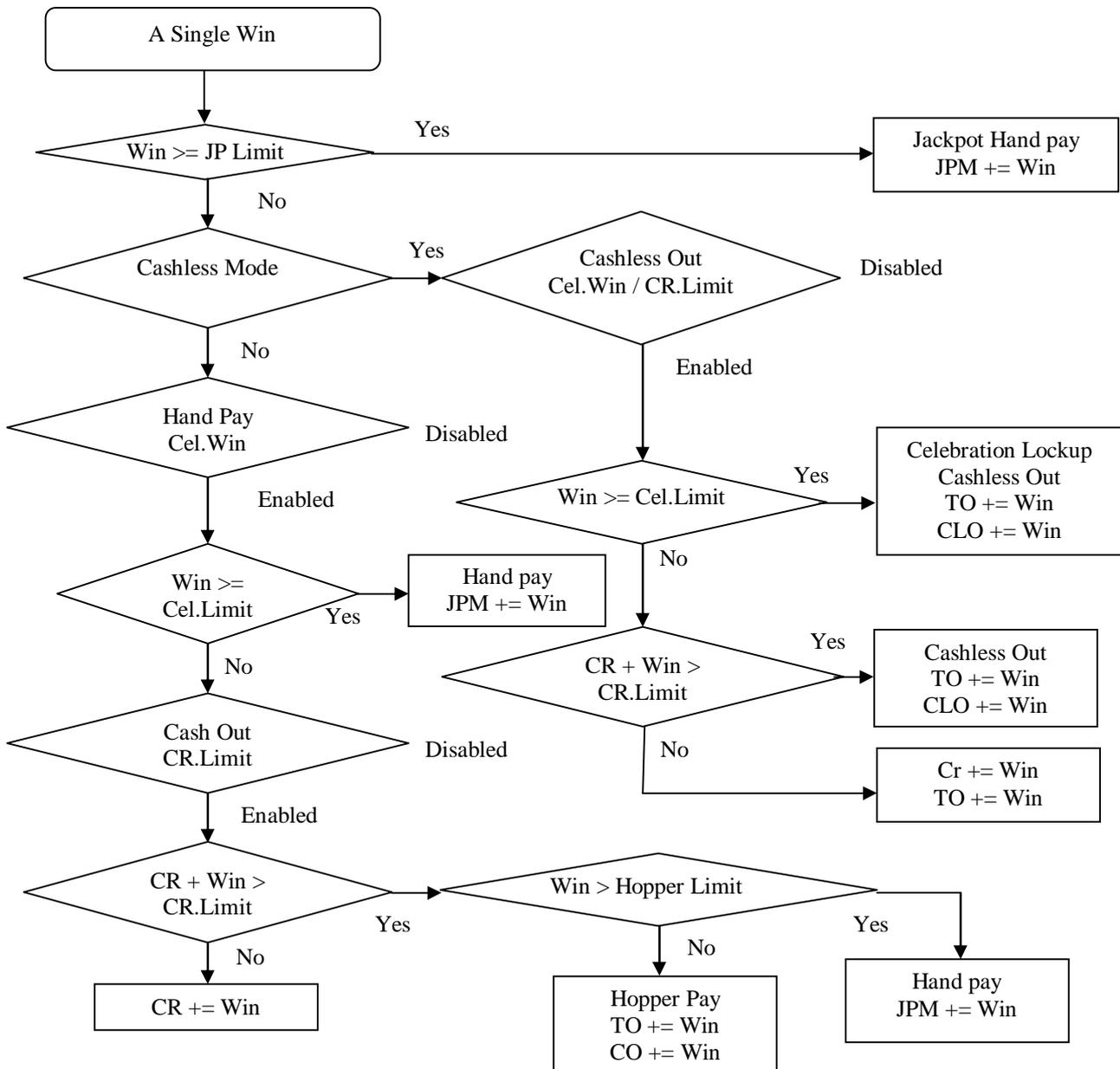
2) MIXED (CASHLESS & COIN) OPERATION

Token / Coin Denomination = other than 'None'

Cashless Transfer From Host = Yes

Let us assume that the jackpot hand pay limit is R1000.00 and the celebration win limit is R500.00.

- Cashless mode: if a single win is bigger or equal to R1000.00 (e.g. jackpot win), then the win amount will be hand paid. If a single win is bigger or equal to R500.00 but less than R1000.00 (e.g. celebration win), then the win amount will be cashless transferred out.
- Non-cashless mode: if any single win is bigger or equal to R1000.00 (e.g. jackpot win), the win amount will be hand paid. If any single win is bigger or equal to R500.00 but less than R1000.00 (e.g. celebration win), the win amount will be hand paid when 'Hand pay Cel.Win' is enabled.
- Credit limit: if (a single win + current credit) exceeds the credit limit, then the win amount will be cashless transferred out during cashless mode when 'Cashless out Cel.Win/CR.Limit' is enabled. In non-cashless mode, the win amount will be hopper paid or hand paid depending on the cancel credit limit when 'Cash out CR.Limit' is enabled. In non-cashless mode, any win amount less than the token value (e.g. residual credit) will be ignored to avoid frequent hand pay for the small win by an attendant. In cashless mode, the residual credit is not ignored and will be cashless transferred out when 'Cashless Out Cel.Win/CR.Limit' is enabled.



3) COIN OPERATION ONLY

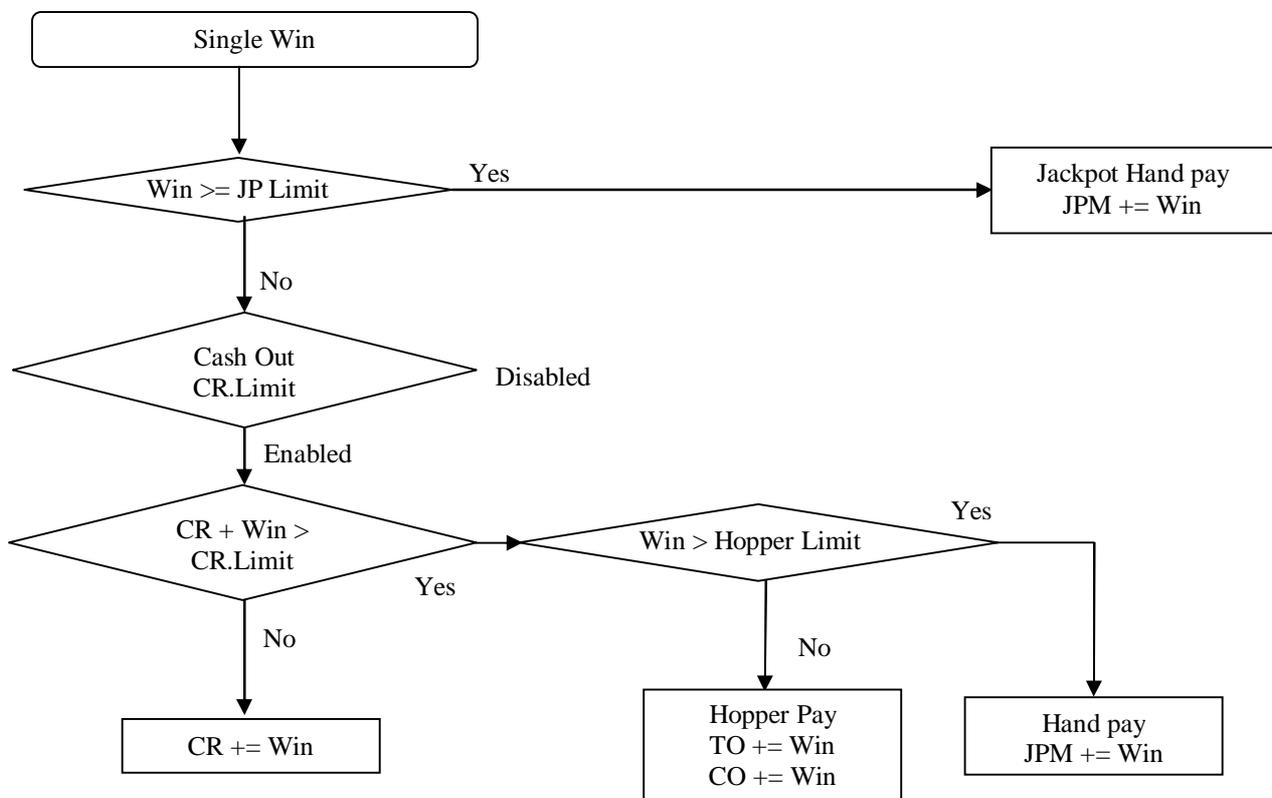
Token / Coin Denomination = other than 'None'

Cashless Transfer From Host = No

Celebration Win limit will be disabled in this operation.

Let us assume that the jackpot hand pay limit is R1000.00.

- Cashless mode: Not applicable because the gaming machine configured as non-cashless operation only.
- Non-cashless mode: if any single win is bigger or equal to R1000.00 (e.g. jackpot win), the win amount will be hand paid.
- Credit limit: if (a single win + current credit) exceeds the credit limit, then the win amount will be hopper paid or hand paid depending on the cancel credit limit when 'Cash out CR.Limit' is enabled. Any win amount less than the token value (e.g. residual credit) will be ignored to avoid frequent hand pay for the small win by an attendant.



1.9 EMAX CONVERSIONS

EPROMs

1. Remove U9 to U16 on Mother Board and replace with new combination EPROM's.

NB: Number of EPROM's is game dependant

2. Perform RAM clear procedure as described in Section 1.8.

ARTWORK

Top

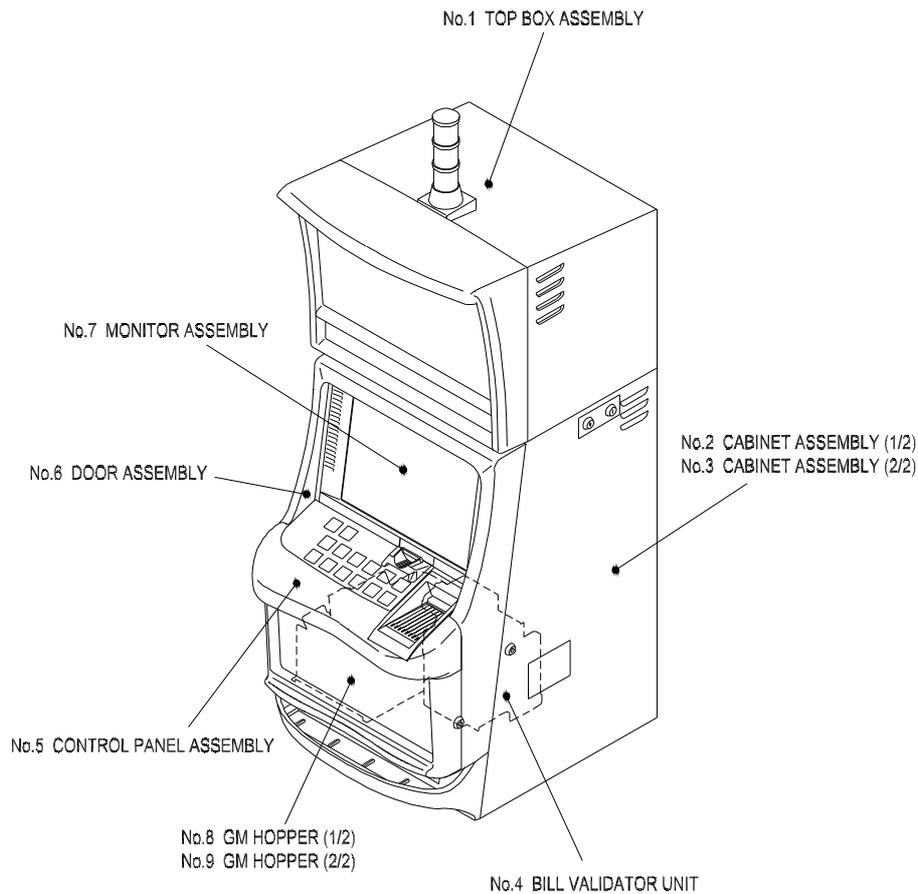
1. Open Main door.
2. Remove Plastic decoration Frame.
3. Slide artwork up then bottom end out.
4. Replace Plastic decoration frame.
5. Close main door.

Bottom

1. Open Belly Door lock assembly.
2. Open Belly Door.
3. Slide artwork out and replace with new artwork.
4. Close Belly Door.
5. Close Belly Door lock assembly.

1.10 TECHNICAL INFORMATION

1.11 LOCATION OF EXTERNAL COMPONENTS



EMAX consists of several major assemblies or modules, which are easily accessible for servicing.

wMain Cabinet - Enclosing all internal components and speakers.

wMain Door - Contains artwork, coin acceptance mechanism, play buttons and lighting.

wLogic Unit - Contains all major electronics, controls all game functions and communication.

wMain Power Supply - Provides power for all electronics, lamps, switches and optics.

wMonitor - SVGA grade computer flat monitor, all controls are located on the front panel.

wHopper - Handles coin out functions.

1.12 BUTTONS

The buttons on the Emax have two types of operations. In the Play Mode the buttons are used for selecting the option stated on the button legend. In Audit and Test Mode the buttons are used to make selections in the various Menus. These selections are not shown on the buttons themselves, but are illustrated on the bottom of the screen.

| | |
|---|--|
| <p style="text-align: center;">COLLECT</p> | <p>COLLECT BUTTON When the Collect button is pressed with the Credit Meter value less than or equal to the Hopper Pay Limit, all credits are paid by coins from the Hopper. If an amount over the Hopper Pay Limit is to be paid out, the machine locks up and enters Cancel Credit Mode. An attendant clears these credits.</p> |
| <p style="text-align: center;">GAME RULES</p> | <p>GAME RULES When the Game rules button is pressed the player is presented with a series of screens showing a complete set of rules for the game being played.</p> |
| <p style="text-align: center;">BET 1 PER LINE</p> | <p>BET BUTTONS Pressing one of the five bet buttons will determine the number of bets per line to be staked (actual bet per line is game dependant).</p> |
| <p style="text-align: center;">PLAY 5 LINES</p> | <p>PLAY BUTTONS Pressing one of the five line buttons will determine the number of lines to be played in the next game and start the game (actual number of lines are game dependant).</p> |
| <p style="text-align: center;">TAKEWIN</p> <hr/> <p style="text-align: center;">START FEATURE</p> | <p>TAKE WIN/ START FEATURE BUTTON Selecting Take Win will add the total of a win to the Credit Meter. The button is active after a winning game and after any successful Double Up attempt. Selecting Start Feature will</p> |
| <p style="text-align: center;">RED</p> <hr/> <p style="text-align: center;">PLAY1 LINE</p> | <p>RED / PLAY BUTTON This button is used for selecting Red in the Double Up game. Selecting Play 1 Line will play 1 line in the next game and start the game (actual number of lines are game dependant).</p> |
| <p style="text-align: center;">BLACK</p> <hr/> <p style="text-align: center;">PLAY25 LINE</p> | <p>BLACK / PLAY BUTTON This button is used for selecting Black in the Double Up game. Selecting Play 25 Line will play 25 lines in the next game and start the game (actual number of lines are game dependant).</p> |
| <p style="text-align: center;">GAMBLE</p> <hr/> <p style="text-align: center;">RESERVE</p> | <p>GAMBLE / RESERVE BUTTON Pressing Reserve will display the message 'MACHINE RESERVED' for 3 minutes if it is not pressed again. It works like a toggle button. By selecting the Gamble button the player can attempt to DOUBLE UP a win by pressing this button. The player then selects RED or BLACK. The object is to match the color of the card displayed face down on the screen. Successful attempts will double the win.</p> |

1.13 SWITCHES

MAIN ON/OFF SWITCH (Located at the front left hand side)

Used to switch on the main supply to the machine.

POWER SAVE SWITCH (Located on the right hand external side of the cabinet)

This switch is jurisdiction dependant. When activated, power is available to the logic boards, communications interfaces and all security sensing devices while the monitor and other lighting may have power removed. No coins or notes will be accepted.

AUDIT MODE KEY SWITCH (Located on right hand side of cabinet)

Used to enter Audit Mode. Insert the Audit Key and turn it clockwise.

RESET/TEST KEY SWITCH (Located on right hand side of cabinet)

Used to reset the machine after a cancel credit or an error has occurred. Insert the Reset Key and turn it anticlockwise to clear the error message or Cancel Credit.

When 'door open' and no credits, this key switch is also used to enter the Test Modes

MAIN DOOR OPTIC (Located on right hand side of Main door & inside Cabinet)

The door optic is used to detect if a DOOR OPEN condition exists. The emitter is mounted on the door while the photo transistor is mounted inside the cabinet.

MAIN DOOR SWITCH

The Main Door Switch is located at the top of the locking bar and works in conjunction with the Door Optic to alert the program that the machine is in the Main Door Open / Closed condition.

BELLY DOOR SWITCH (Located on machine door)

This switch alerts the program that the Belly Door has been opened.

LOGIC UNIT SWITCH OR SECURITY CAGE SWITCH (Located on Logic Unit)

This switch is connected to the electronic circuitry with a battery back up. This switch is located on the Logic Unit, and it detects if the Logic Door (Processor Door) has been opened, with or without power.

CASH BOX SWITCH (Located in Cashbox)

This switch detects if the Cashbox door is open / closed.

HOPPER COUNT OPTIC (Located on Hopper)

This switch is located at the coin exit on the hopper, and it counts coins that are being collected.

1.14 LOCATION OF INTERNAL COMPONENTS



SUMMATION OF SUB-SYSTEM COMPONENTS

| | COMPONENT | LOCATION | MOUNTING |
|---|------------------|------------------------------------|-----------------------------------|
| A | MONITOR | Centre Shelf | Slide-in chassis, screw fixings |
| B | LOGIC UNIT | Back of Cabinet (upper) | Lockable cradle assembly |
| C | NOTE ACCEPTOR | Front Right hand side | Screwed to cradle |
| D | HOPPER | Base of Cabinet (front) | Steel slides on Hopper & base |
| E | COIN VALIDATOR | Main Door | Cradle assembly with spring clips |
| F | DIVERTER ASSY | Behind Main Door | Attached to coin validator |
| G | POWER SUPPLY | Rear of Cabinet (under Logic unit) | Screwed to rear floor of machine |

1.14.1 MAIN DOOR

The Main Door houses artwork, play buttons, coin handling components and fluorescent lighting. Coins are rejected from the coin acceptor during actual game play, a collect sequence, or during an Error Condition or Play Suspended Mode. Coins are directed by a solenoid driven Coin Diverter to either the Hopper or Cashbox area, depending on the current Hopper level. The various Play Buttons provide the player input for the game. They are also used in many of the Audit and Maintenance functions.

1.14.2 CONDOR

The coin validator has been pre-programmed during machine manufacture to accept one particular denomination.

As a coin passes a set of detect coils a pulse or “coin signature” is generated which is compared against a set of pre-programmed reference values. If the signature is correct a solenoid is energised inside the validator and allows the coin to enter into the machine.

The coin validator is fitted with three internal optics:

- 1) Coin Detect Sensor - allows the validator process to commence.
- 2) Coin Gone Sensor - sends signal to credit lines.
- 3) Coin Direction Sensor - detects direction of coin
(Anti yo-yo).

1.14.3 MECHANICAL DIVERTER

The coin diverter has internal optics:

- 1) Coin Detect Sensor - allows the separator processes coin either to hopper or cashbox.

1.14.4 LOGIC UNIT

The Pacific Gaming Emax Logic Unit utilises a standard PC AT platform with a combination of commercially available and custom designed circuit boards to provide a reliable and functional gaming machine.

The Emax utilises a custom “Gaming BIOS” and the system operates in an embedded ROM based diskless environment.

Inputs and outputs from the Logic Unit are optically isolated to prevent noise and interference affecting the logic circuitry.

The Logic Unit board sets are as follows:-

1.14.5 MOTHERBOARD (DPX - 80)

The motherboard is based on the Pentium 233MHz or CYRIX 6x86 300/333MHz device, and represents a standard “integrated” system operating (less unwanted functions) in a modified PC configuration.

Fitted on the motherboard is a start-up BIOS EPROM which redirects information to the Game EPROM. This EPROM does not need to be replaced for a Game EPROM change.

1.14.6 I/O BOARD

The IO BOARD controls Input and output signals

Jumper switches on IO Board:

1. JP7 and JP8 (External Output Port Isolation): If using the isolated power and ground, this jumper should be set to position 1-2. If using the System Supplies (VCC and GND), this jumper should be set to position 2-3. Set to position 2-3 by default.
2. JP1 (External Input Port Isolation): If using the isolated power and ground, this jumper should be set to position 1-2. If using the System Supplies (VCC and GND), this jumper should be set to position 2-3. Set to position 2-3 by default.
3. JP3: Open to save battery during long term storage. Must be closed to enable the battery that saves the Logic-door status
4. JP5: Open by default. Close this jumper will cause a reset if the battery or VCC fail.

LED Indicators on IO Board:

1. LED1: ON indicates Battery failed.
2. LED2: ON indicates Supply Voltage (VCC) is under Reset Threshold (typically 4.65V).

1.14.7 MEMORY BOARD

The MEMORY BOARD stores gaming programs and data.

Jumper switches on Memory Board:

1. J1 B1: Open to save battery during long term storage. Must be closed to enable the batteries for the back-up Ram bank1
2. J2 B2: Open to save battery during long term storage. Must be closed to enable the batteries for the back-up Ram bank2
3. J3 W (Watchdog enable): Must be closed when the watchdog timer is fully implemented in the game software. Only can be opened during software developing in emulator
4. J4 A (RAM Selection): Open by default for the SRAMs populated on the board are 128K x 8 in size. When 512K x 8 devices are used, this jumper should be left close.
5. J5 O (ROM Selection): Open by default for the EPROM's populated on the board is 2Mb x 16 in size. When 1Mb x 16 devices are used, this jumper should be left close.

LED Indicators on Memory Board:

1. LED1 VB1: ON indicates Bsttery1 failed.
2. LED2 VB2: ON indicates Bsttery2 failed.
3. LED3 Sup Low: ON indicates Supply Voltage (VCC) is under Reset Threshold (typically 4.65V).

1.14.8 COMMUNICATIONS BOARD (jurisdiction dependant)

This board supplies 6 additional RS-422 communication ports. Port 1 is bi directional.

1.14.9 BACKPLANE BOARD

The BACKPLANE BOARD provides the connections to other PCB's.

LED Indicators on Backplane:

1. LED1-6: ON indicates VCC, 12VDC, -12VDC (off by default), 5VDC, 12VDC and 24VDC on in order.

1.14.10 MONITOR

The video monitor is a Jean 19" SVGA model number: JD199FA. It is connected to the motherboard via a DSUB15 connector and shielded multi core cable.

The monitor has an auto bias circuit, which eliminates the need for color set-up procedures. This circuit compensates for picture tube drift, which normally causes the color balance to become unbalanced.

The monitor power supply is a high efficiency switch mode type. It does not isolate the incoming AC power and requires an isolation transformer.

All adjustments are done by OSD (on screen display menu). See Adjustment Procedure in appendix at rear of service manual.

1.14.11 HOPPER

The Hopper performs coin out function of the machine. All functions are under software control. A Photo Optic Sensor counts coins exiting the Hopper.

Features of the Hopper are:

- w** High speed dispensing.
- w** Compact design.
- w** Dispenses up to the last coin.
- w** Prevention of coin overruns (extra coin out).

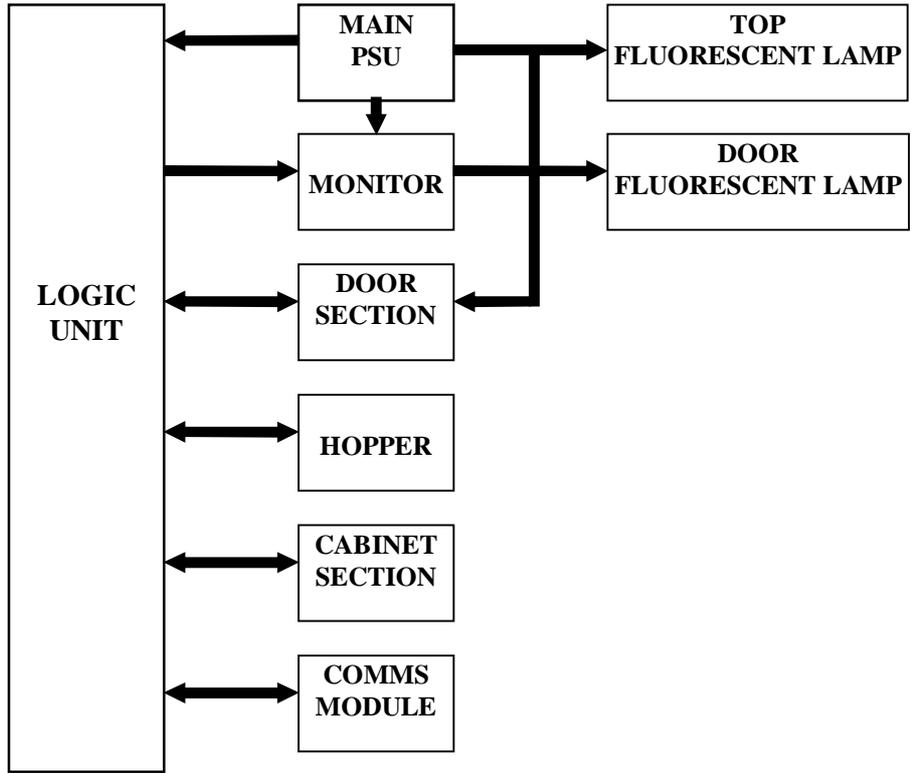
Inside the Hopper bowl is a Conduction Probe. Once coins reach this probe and remain in contact with this probe for more than two (2) seconds, the diverter solenoid will divert the coins into the Cashbox.

Software monitors the following: -

- w** Hopper Refill
- w** Hopper Full (Hopper level at which coins are diverted to the Cashbox).
- w** Coins over dispensed (extra coin out).
- w** Hopper Empty / Jam.

1.15 SYSTEM BLOCK DIAGRAM

The following block diagram encompasses all the relevant sub systems for the Emax machine:



1.16 SERVICING OF MAJOR COMPONENTS

**** WARNING – Please ensure the Power Supply is switched off at all times when servicing any module/s on the Emax machine.**

1.16.1 MONITOR

The Monitor is located directly behind the cabinet door. It is run by the Power Supply which provides 240VAC.

Removal

The monitor is held in place with six (6) screws. The screws are located towards the outer corners of the monitor assembly, two on top and four on the bottom. Remove the six screws and slide monitor out across shelf.

ADJUSTMENTS

It is the responsibility of the technicians to ensure that adjustments are made in the field. A PCB is located below the CRT at the front left hand side of the chassis, which provides adjustments for all available settings via an onscreen display. Details are contained in appendix at rear of service manual.

1.16.2 LOGIC UNIT

The Logic Unit area consists of 4 PCB's of the [DPX-80 Motherboard], the [MEMORY BOARD], the [IO BOARD], and the [BACKPLANE BOARD]. These PCB's are fire-retardant, and have electronic devices (such as IC's) on their surfaces.

The [DPX-80] directly outputs picture signals to the [MONITOR], and sound signals to the [SPEAKERS].

The [MEMORY BOARD] stores gaming programs and data.

The [IO BOARD] controls I/O signals.

The [BACKPLANE BOARD] provides the connections to other PCB's.

LOGIC UNIT - HANDLING & SAFETY

The EMAX Logic Unit is located below the Monitor shelf. This area contains the motherboard, memory board; I/O board and Communications board (NSW only). The following steps provide a simple and safe method when removing the Logic Unit components:

Step 1. Open Main Door.

Step 2. Switch power off (located at left hand front corner of machine).

Step 3. Remove Hopper Unit

Step 4. Open the lock of the logic unit by turning the key anti clockwise.

Step 5. Put one hand on either corner of the board to be removed and gently pull towards the front of the machine. The board will slide out on rails that are located either side of the board.

Step 6. The preceding steps must be reversed when replacing a Logic Unit component.

1.16.3 POWER SUPPLY

As illustrated below, the power Supply has a basic function of supplying different voltages to various sources on the EGM.

Three power supplies and a power save PCB are contained in a housing located at the back of the cabinet. The functions of the PCB are distribution of power, transient protection and a power save function.

All power supplies are switch mode that have over voltage and short circuit protection.

The fuse fitted on the outside of the power supply is a 240V, 6.3 Amp slow blow, 3AG type fuse.

The following table represents the various output voltages of the Power Supply:

| OUTPUT | FUNCTION |
|---------------|--|
| 240 Volts AC | Monitor and Fluorescent Lamps. |
| 24 Volts DC | Isolated output to drive Button Lamps, Hopper Motor, Tower Lamps (if fitted), Hard Meters, Condor Diverter, and GPT Note Acceptor. |
| 12 Volts DC | Isolated output for Coin Validator Fan and Motherboard. |
| 5 Volts DC | Motherboard and Memory Board. Isolated outputs for all switches, buttons, and photo-optics. |

1) POWER SUPPLY - HANDLING & SAFETY

The following steps provide a simple method of how to remove and replace an EMAX Power Supply.

Step 1. Open main door.

Step 2. Switch Power Supply off.

Step 3. Remove the Hopper.

Step 4. Undo the four screws around speaker.

Step 5. Move hopper rail forward.

Step 6. Remove three screws on the base of the power supply.

Step 7. Remove 2 M4 nuts and disconnect 12 volt outlet.

Step 8. Disconnect harness from back plain and mains switch.

Step 9. Lift the power supply up with hands then remove the left side out first then the right hand side.

Step 10. The preceding steps must be reversed when replacing a power supply.

1.16.4 HOPPER

The Hopper is located on the bottom of the cabinet at the front left hand side using a slide rail mechanism. Its main purpose is to handle coin out functions:

1) HOPPER - HANDLING & SAFETY

The ensuing steps provide an easy method on how to remove and replace an EMAX Hopper.

Step 1. Open Main Door.

Step 2. Switch Power Supply off.

Step 3. Remove Hopper by pulling the unit towards the front of the machine.

Step 4. To replace Hopper the above steps must be reversed.

N.B. Please ensure the Hopper is firmly plugged into the back connector provided, otherwise this will result in 'HOPPER DISCONNECTED' error message.

1.16.5 CONDOR COIN VALIDATOR

The Coin Validator is located on the inside of the main door below the coin entry. Its main purpose is to accept and validate any incoming coins

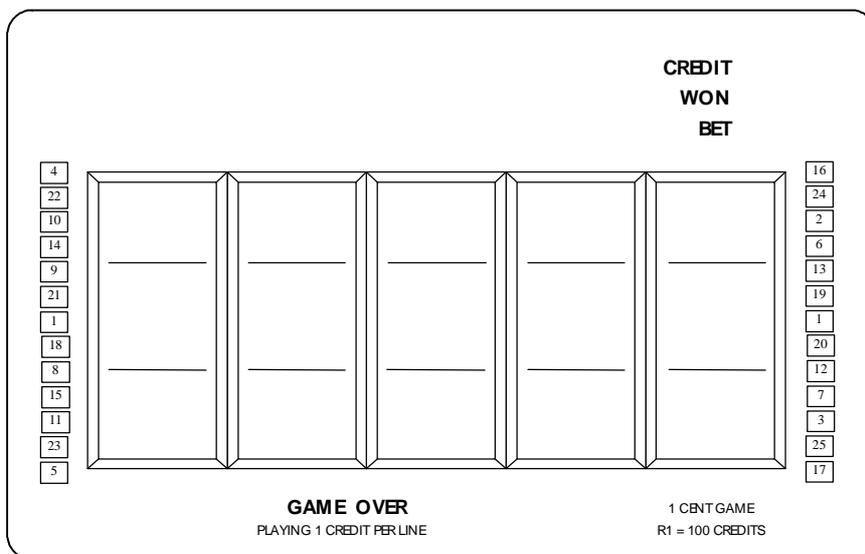
COIN VALIDATOR - HANDLING & SAFETY

First remove the wiring harness from coin validator connector. The Condor coin Validator can then be removed by gently pulling up on the device to clear the location tags. The device is then swung away from the bracket bottom side first.

1.16.6 NOTE ACCEPTOR

Please refer to the Note Acceptor User Manual contained in appendix.

1.17 SCREEN LAYOUT



CREDIT METER

Displays the current number of credits available. Credits are added as coins are inserted, after a win, or when the Take Win button is pressed. Credits are deducted at the start of a new game, during a collect, and during a cancel credit procedure.

WON METER

Displays the total credits won on the last game. This meter clears at the start of a new game.

BET METER

Displays the total credits bet on the last game. This display will be updated at the start of a new game.

MESSAGE BANNER

Displays the message GAME OVER, GAMBLE OR CONTINUE, etc.

REEL GRAPHIC DISPLAY

The spinning reels are displayed in this area. Numbers of lines to be played are displayed. Wins are highlighted by each winning line and symbols flashing twice in succession.

CYCLING MESSAGES

Displays the following cycling messages:

CREDITS PER LINE

This displays the number of credits to be bet per line.

HOPPER PAID METER

This displays the number of credits paid out by the hopper after the collect button was selected. This message will be cleared at the start of a new game.

CREDIT PAID METER

This displays the number of credits paid out by a Cancel Credit after being validated. This message will be cleared at the start of a new game.

1.18 REPLACING LAMPS & TUBES

REPLACING TOP FLUORESCENT TUBES

1. Open main door.
2. Turn the machine power switch off.
3. Pull bottom flange of artwork bezel away from machine, raise to clear top box and remove.
4. Raise the bottom of artwork up and away from cabinet approximately 20 mm and remove.
5. Replace any faulty fluorescent tubes or starters.
6. Replace artwork.
7. Replace artwork bezel.
8. Switch on power.
9. Close main door and lock machine.

REPLACING BOTTOM FLUORESCENT TUBES

1. Open the Main Door and switch off power.
2. Open Belly door lock and open Belly Door.
3. Remove artwork from belly area
4. Replace any faulty fluorescent tubes or starters.
5. Replace belly artwork.
6. Switch on power and close Main Door.

REPLACING PLAY BUTTON LAMPS

1. Open the Main Door and switch off power.
2. Extract play button switch and globe holder from play button assembly.
3. Replace faulty globe.
4. Reassemble play button assembly.
5. Switch on power and close Main Door.

1.19 MONTHLY MAINTENANCE

CABINET

- Check door locking mechanism and lock operation.
- Check cables are secured by retaining clips and tie wraps.
- Check fluorescent lamps operating correctly.
- Check general interior cleanliness.

INPORT / OUTPORT TEST

- Test all switches and optics by using the Input Test.
- Test globes and diverter using Output Test.

HOPPER

- Check hopper is securely mounted in its rails.
- Ensure money is being diverted into the hopper or cashbox correctly - no coins scattered around hopper.

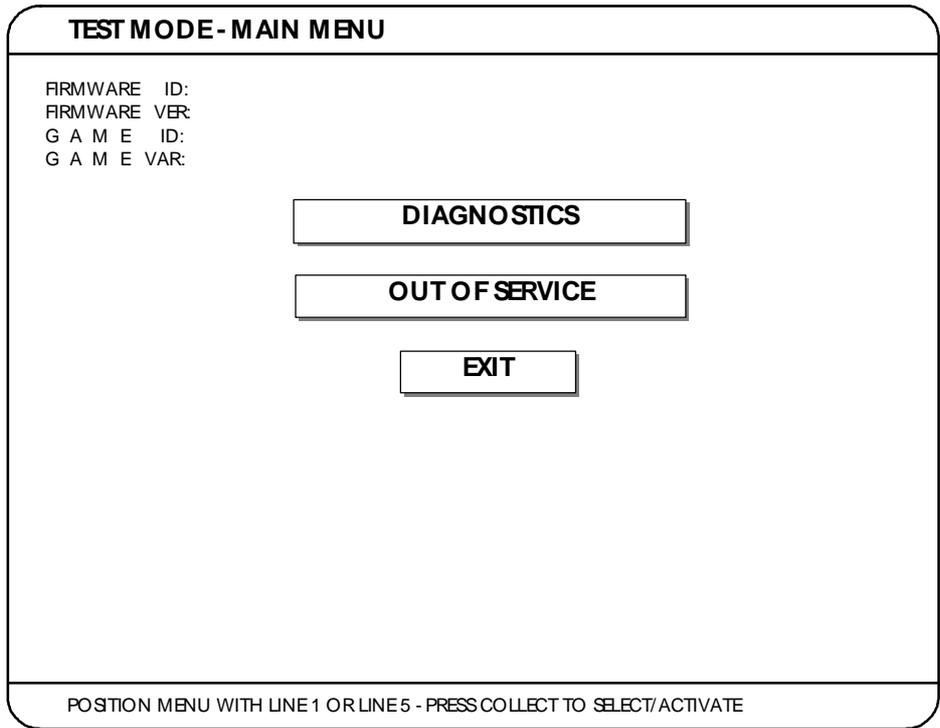
MONITOR

- **Make sure that the machine is fully turned off.**
- Spray the monitor tube with a mild soapy solution, and then wipe the excess with a damp lintless cloth.
- Adjust picture controls if necessary.

NOTE ACCEPTOR

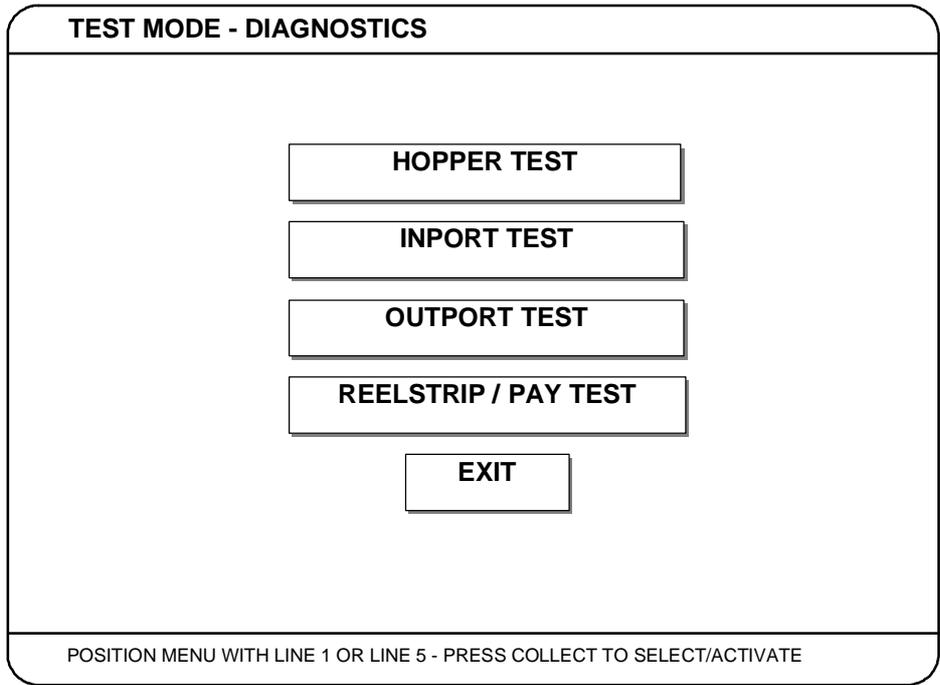
Note: Please refer to the Note Acceptor User manual for instructions.
(Attached at the back of this document).

1.20 TEST MODE MENUS



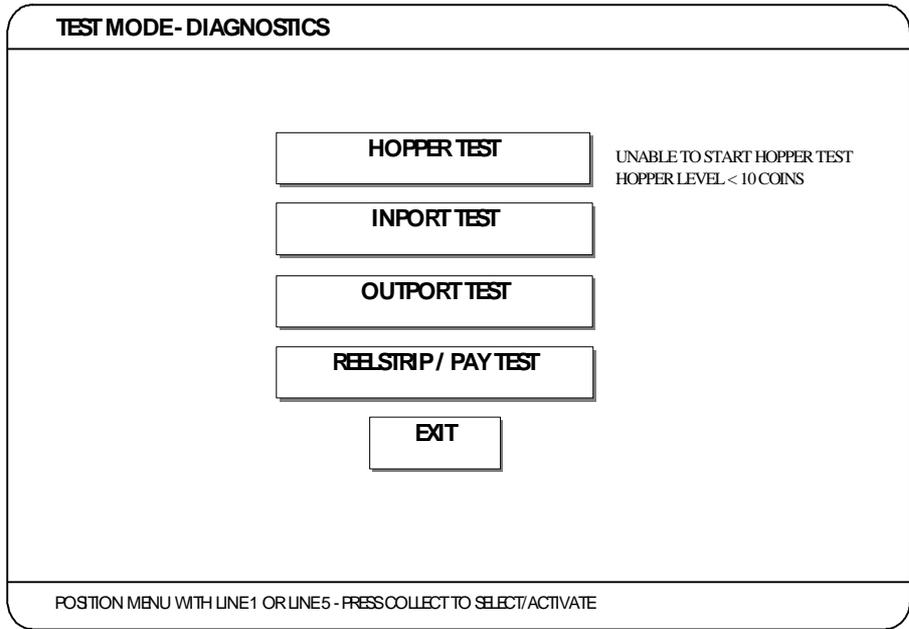
Various test functions can be accessed in the TEST MODE menu.
To enter Test Mode, the Credits must be cleared, the Main Door must be open and the Reset Key is turned anticlockwise.

1.21 DIAGNOSTICS MENU

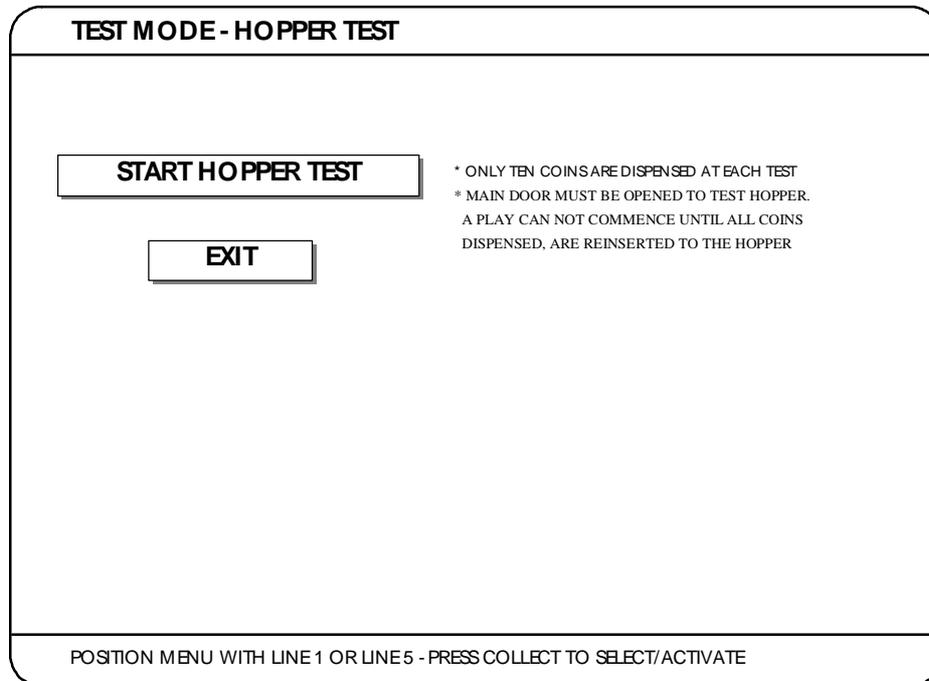


Various diagnostic and test functions can be performed in Test Mode. Each Test Mode function is described on the following pages.

1.22 HOPPER TEST SUB-MENU



To activate Hopper Test, select the HOPPER TEST button. If there are not enough coins in the hopper or hopper disabled, then 'UNABLE TO START HOPPER TEST' and 'HOPPER LEVEL < 10 COINS' appears on the right side of the button as shown on the diagram above.



If hopper test is possible, then above screen will appear.

Follow the screen instructions to perform the 10 coin Hopper Test.

This test verifies that the Hopper is dispensing coins correctly. All coins dispensed must be re-inserted **through the coin entry** once the Main Door has been closed.

NOTE: The main door must be opened to initiate the hopper test.

The machine will not function until the coins have been re-inserted and counted back into the machine.

1.23 INPORT TEST SUB-MENU

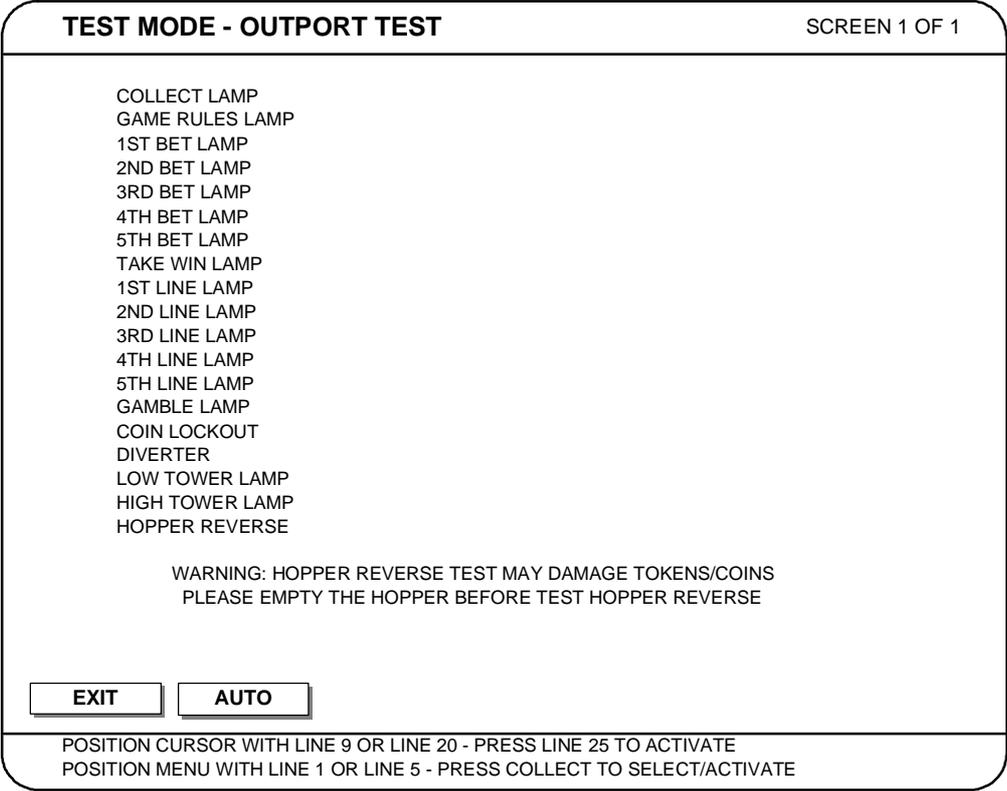
TEST MODE - INPORT TEST SCREEN 1 OF 1

RESET KEY
AUDIT KEY
POWER SAVE KEY
COLLECT
GAME RULES
1ST BET
2ND BET
3RD BET
4TH BET
5TH BET
TAKE WIN
1ST LINE
2ND LINE
3RD LINE
4TH LINE
5TH LINE
GAMBLE
COIN IN
COIN TO DROP
COIN OUT
YO-YO ALARM
HOPPER FULL
MAIN DOOR
MAIN DOOR OPTIC
LOGIC DOOR
CASHBOX DOOR
BELLY DOOR
STACKER DOOR
HARD METER DOOR

ACTIVATED INPUTS SHOULD BE DISPLAYED IN RED
PRESS RED WITH BLACK TO EXIT

For servicing requirements, switches, buttons and optics can be checked in the INPORT TEST. As a particular input is activated it will be displayed in red if operating correctly. Press RED with BLACK to exit this test.

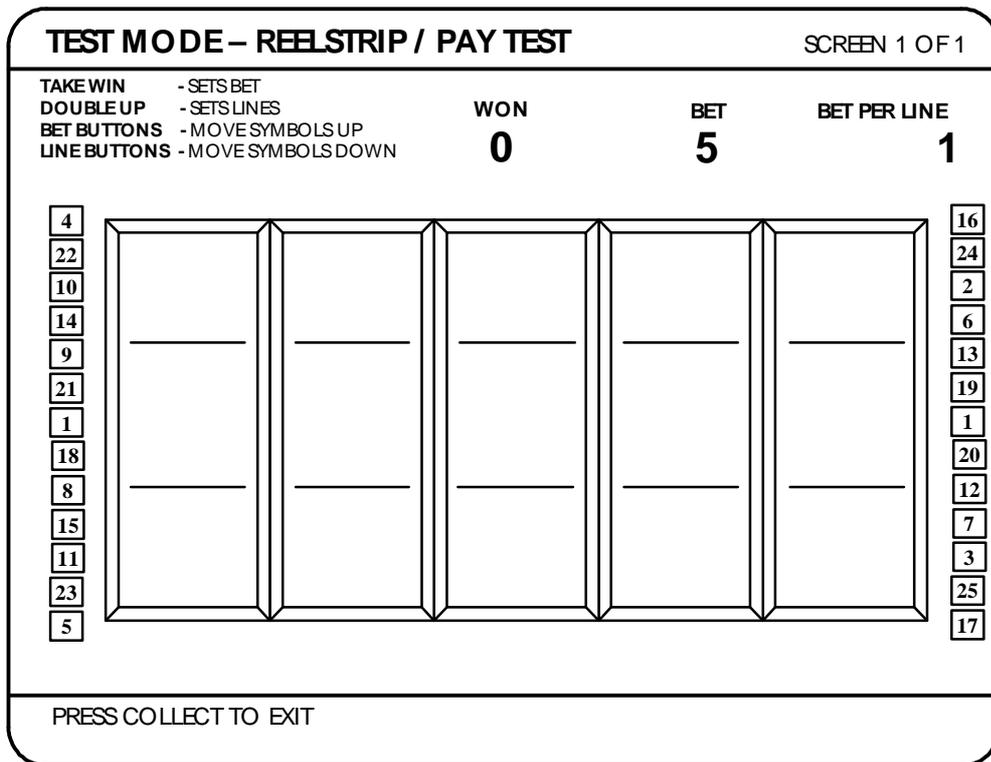
1.24 OUTPORT TEST SUB-MENU



The listed lamps, diverter and coin lockout signals can be checked in the OUTPORT TEST. Follow the prompt line instructions to activate each port.

By selecting AUTO, each Outport will be activated in order of the above screen list.

1.25 REEL STRIP / PAY TEST SUB-MENU



The Symbol Distribution test enables the reel symbol positions in the game firmware to be validated. All symbol combinations and pays can be validated in this test, which includes the pay out for each winning combination.

To move the symbols for each reel use the corresponding Bet Button and Play Button. e.g. for reel three (3) use third Bet Button (Bet 3 Button) to progress through the symbols and third Play Button (Play 5 Button) to go in the opposite direction.

Pressing the Double Up Button increases the number of lines available and pressing the Take Win Button increases the credits per line.

To Exit and return to the Diagnostics Menu turn the Reset Key clockwise.

1.26 **OUT OF SERVICE**



This screen can be selected to place the machine OUT OF SERVICE. To exit this mode turn the Reset Key anticlockwise.

2 AUDIT MODE MENUS

A comprehensive set of audit and test functions are available on the EMAX. They are accessed by activating the Audit Key switch on the right hand side of the machine. When the key is turned anticlockwise the MAIN MENU will appear on the screen.

The audit functions use a system of Menus and Sub-Menus. Access to the Menus, Sub-Menus and various functions is possible by using the Line and Collect Buttons on the Main Door.

To step to the NEXT Menu, press the Line 1 button.

To step to the PREVIOUS Menu, press the Line 5 button.

To select a particular Menu, press the COLLECT Button.

To QUICK ESCAPE from any Menu, turn the Audit Key clockwise.

This will return you to the MAIN MENU or previous menu.

Another activation of the Audit Key from the MAIN MENU will return to the game.

Instructions for the Menus are displayed on the Prompt Line of the screen.

NOTE: The actual button description will vary from game to game but the description on screen will match the description on the button face.

From the MAIN MENU the following Menus can be accessed:

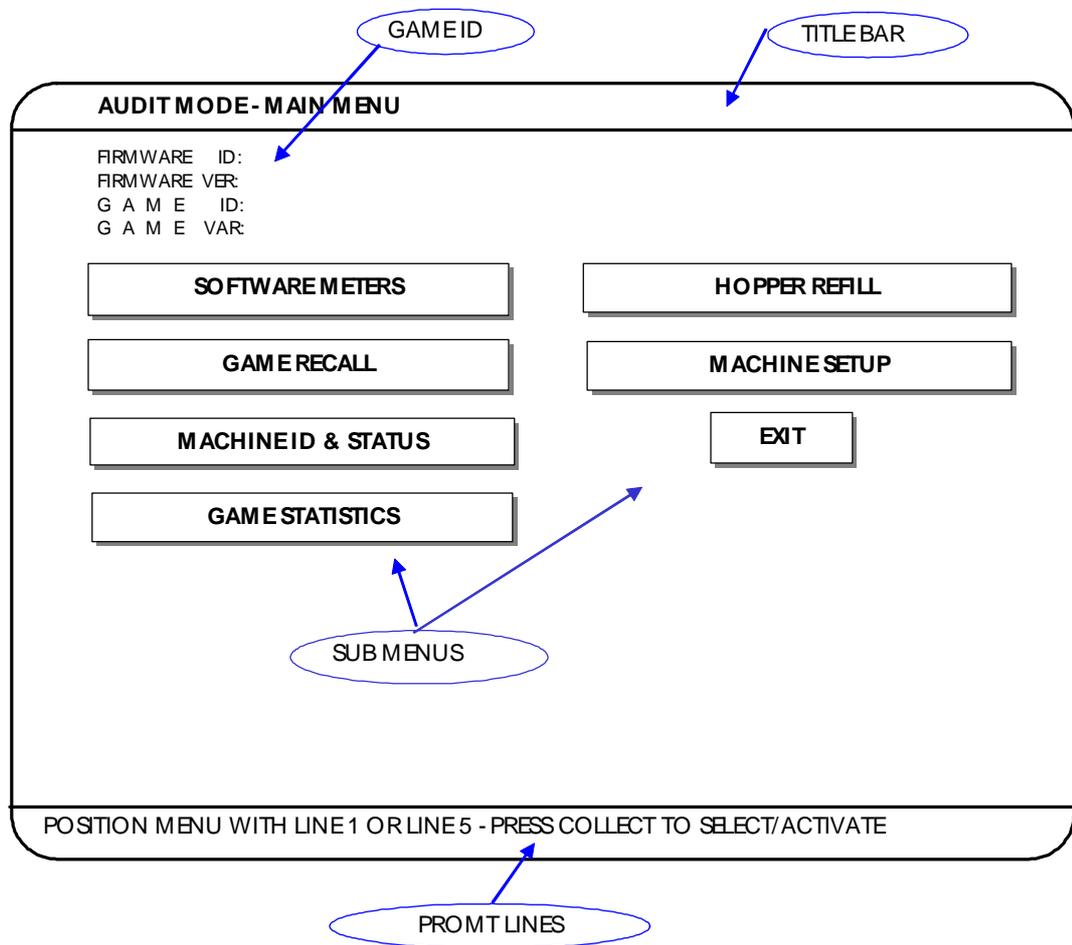
- SOFTWARE METERS
- GAME RECALL
- MACHINE ID & STATUS
- GAME STATISTICS
- HOPPER REFILL
- MACHINE SETUP
- EXIT (RETURN TO GAME)

Once in one of the Menus or Sub-Menus, several commands are available and are displayed on the Command Line of the screen. Typical commands are described below.

NOTE: All the Commands may not be available in a particular Sub Menu.

- | | |
|-----------------|---|
| NEXT | Steps forward to the next item or menu. |
| PREVIOUS | Steps back to the previous item or menu. |
| RESET | Initialises values to zero. |
| EXIT | Exits the particular Sub-Menu and returns to the previous menu. |

2.1 MAIN MENU



TITLE BAR

This bar will display the name of the current menu and the page number of the particular menu if there is more than one page.

GAME ID

This area contains the Firmware ID & Version, and Game ID & Version.

SUB MENUS

The Menus represent the various functions available in AUDIT Mode. Several Menus contain Sub-Menus for specific functions.

PROMPT LINE

Instructions for using the menus are displayed in this area. Most functions are selected and activated by using button presses as prompted. To select a Menu or Sub-Menu, follow the instructions on the Prompt Line.

2.2 SOFTWARE METERS

To display the SOFTWARE METERS, insert the Audit Key and turn clockwise. This can be done at all times *except during a game*. Place the cursor onto METERS INFORMATION and press COLLECT.

NOTE: Audit reports may vary between jurisdictions, e.g. Currency type and button layout. Menu navigation is based on a 25 line button layout within this manual.

SOFTWARE METERS (PAGE 1) – ASP protocol

| SOFT METERS | AUDIT MODE | PAGE 1 OF 4 |
|--|-------------|-----------------------------|
| METER UPDATE: YES | AUDIT METER | US METER |
| CURRENT CREDITS | (R) | |
| GAMES PLAYED | (PLAYS) | |
| GAMES WON | (COUNT) | |
| TURNOVER | (R) | |
| WINS EX BONUS (INC JP) | (R) | |
| BONUS HAND PAID | (R) | |
| BONUS PAID TO CREDIT METER | (R) | |
| TRUE COINS IN | (R) | |
| TRUE COINS OUT | (R) | |
| BANKNOTES IN | (R) | |
| EXTRA COIN OUT | (R) | |
| HAND PAID (EX BONUS HAND PAID) | (R) | |
| HOPPER REFILL | (R) | |
| CASHBOX DROP | (R) | |
| CASHLESS IN | (R) | |
| CASHLESS OUT | (R) | |
| US COIN IN (TURNOVER) | (R) | |
| US COIN OUT (WINS EXCEPT JP) | (R) | |
| US DROP (CASHBOX + BANKNOTES) | (R) | |
| US JACKPOT (WINS HAND PAID) | (R) | |
| US CANCEL CREDIT | (R) | |
| BONUS TAX DEDECTABLE | (R) | |
| BONUS TAX NON-DEDECTABLE | (R) | |
| BONUS WAGER MATCHED | (R) | |
| CURRENT CASHABLE | (R) | |
| CURRENT NON-CASHABLE | (R) | |
| CURRENT PROMOTIONAL | (R) | |
| EXIT | NEXT | PREVIOUS |
| | | YYYY / MM / DD HH : MM : SS |
| POSITION MENU WITH LINE 1 OR LINE 5 - PRESS COLLECT TO SELECT / ACTIVATE | | |

This screen displays all audit related data details since last RAM Clear.

| | |
|--|--|
| METER UPDATE | Audit meter update enable/disable. This can be changed by host and if disabled, then the audit meter will freeze even game play is going on. |
| CURRENT CREDITS | Current credits shown on the game screen credit meter. |
| GAMES PLAYED | Total number of games played since machine start up. |
| GAMES WON | Total number of games won since machine start up. |
| TURNOVER | Cumulative total amount of all money wagered on the gaming machine. |
| WINS EX BONUS (INC JP) | Total amount won except external bonus wins. This will include internal free bonus games wins (if any) and jackpot hand paid. |
| BONUS HAND PAID | Total amount of external bonus wins hand paid |
| BONUS PAID TO CREDIT | Total amount of external bonus wins transferred to Credit Meter. |
| TRUE COINS IN | Total amount of tokens/coins inserted. |
| TRUE COINS OUT | Total amount of tokens/coins paid out by the hopper. |
| BANKNOTES IN | Total amount of banknotes inserted. |
| EXTRA COIN OUT | Total number of extra coins paid out by the hopper. |
| HANDPAID EX BONUS HAND PAID | Total amount hand paid except external bonus wins hand paid. |
| HOPPER REFILL | Total amount of coins put into the hopper by way of refills. |
| CASHBOX DROP | Total amount of tokens/coins directed to the coin coin box. |
| CASHLESS IN | Total amount of cashless in. |
| CASHLESS OUT | Total amount of cashless out. |
| US COIN IN | Total turnover. |
| US COIN OUT | Total amount of wins not hand paid. This will also include external bonus transferred by the host to the credit meter but will not include the external bonus hand paid. This does not include wins hand paid (jackpot). |
| US DROP | Total money in as coins to cashbox + banknotes. |
| US JACKPOT | Total amount of wins hand paid. |
| US CANCEL CREDIT | Total hand paid amount by means of collect. This does not include win hand paid (jackpot). |
| BONUS TAX DEDUCTABLE | Total amount of bonus tax deductible. |
| BONUS TAX NON- DEDUCTABLE | Total amount of bonus tax non-deductable. |
| BONUS WAGER MATCHED | Total amount of bonus wager matched. |
| CURRENT CASHABLE | Current cashable credits on the gaming machine. |
| CURRENT NON-CASHABLE | Current non-cashable credits except promotional credits on the gaming machine. This can only be transferred from/to host during cashless mode. |
| CURRENT PROMOTIONAL | Current promotional credits on the gaming machine. Promotional credits are also non-cashable and can only be transferred from/to host during cashless mode. |

SOFTWARE METERS (PAGE 1) – SAS protocol

| SOFT METERS | AUDIT MODE | PAGE 1 OF 4 |
|--|------------|-------------|
| AUDIT REPORT | | |
| CURRENT CREDITS | | (R) |
| GAMES PLAYED | | (PLAYS) |
| GAMES WON | | (COUNT) |
| COIN IN (TURNOVER) | | (R) |
| COIN OUT (WINS EXCEPT JP) | | (R) |
| BONUS TAX DEDECTABLE | | (R) |
| BONUS TAX NON-DEDECTABLE | | (R) |
| BONUS WAGER MATCHED | | (R) |
| TRUE COINS IN | | (R) |
| TRUE COINS OUT | | (R) |
| BANKNOTES IN | | (R) |
| DROP (COINS + BANKNOTES) | | (R) |
| CANCEL CREDIT EXCEPT JP | | (R) |
| JACKPOT HAND PAID | | (R) |
| CASHLESS IN CASHABLE | | (R) |
| CASHLESS IN NON-CASHABLE | | (R) |
| CASHLESS IN PROMOTIONAL | | (R) |
| CASHLESS OUT | | (R) |
| CURRENT CASHABLE | | (R) |
| CURRENT NON-CASHABLE | | (R) |
| CURRENT PROMOTIONAL | | (R) |
| <div style="display: flex; justify-content: space-around; margin-top: 10px;"> EXIT NEXT PREVIOUS </div> | | |
| YYYY / MM / DD HH : MM : SS | | |
| POSITION MENU WITH LINE 1 OR LINE 5 - PRESS COLLECT TO SELECT / ACTIVATE | | |

| | |
|----------------------------------|--|
| CURRENT CREDITS | Current credits shown on the game screen credit meter. |
| GAMES PLAYED | Total number of games played since RAM Clear. |
| GAMES WON | Total number of games won since RAM Clear. |
| COIN IN (TURNOVER) | Cumulative total amount of all money wagered on the gaming machine. |
| COIN OUT (WINS EXCEPT JP) | Total amount of wins not hand paid. This will include internal free bonus games wins but exclude external bonus transferred from host. This will include wins transferred to credit meter or wins hopper paid or wins cashless transferred out. This does not include wins hand paid (jackpot). |
| BONUS TAX DEDECTABLE | Total amount of external bonus wins which is tax deductible. |
| BONUS TAX NON-DEDECTABLE | Total amount of external bonus wins which is tax non-deductable. |
| BONUS WAGER MATCHED | Total amount of external bonus wager matched. |
| TRUE COINS IN | Total amount of tokens/coins inserted. |
| TRUE COINS OUT | Total amount of tokens/coins paid out by the hopper. |

| | |
|---------------------------------|--|
| BANKNOTES IN | Total amount of banknotes inserted. |
| DROP (COINS + BANKNOTES) | Total amount of coins into cashbox and banknotes inserted into stacker. |
| CANCEL CREDIT EXCEPT JP | Total hand paid amount by means of collect. This does not include wins hand paid (jackpot). |
| JACKPOT HAND PAID | Total amount of wins hand paid. |
| CASHLESS IN CASHABLE | Total cashable credits transferred from host. |
| CASHLESS IN NON-CASHABLE | Total non-cashable credits transferred from host. |
| CASHLESS IN PROMOTIONAL | Total promotional credits transferred from host. |
| CASHLESS OUT | Total credits transferred out to host. |
| CURRENT CASHABLE | Current cashable credits on the gaming machine. |
| CURRENT NON-CASHABLE | Current non-cashable credits except promotional credits on the gaming machine. This can only be transferred from/to host during cashless mode. |
| CURRENT PROMOTIONAL | Current promotional credits on the gaming machine. Promotional credits are also non-cashable and can only be transferred from/to host during cashless mode. |

SOFTWARE METERS (PAGE 2)

| AUDIT MODE - SOFT METERS | | SCREEN 2 OF 4 | | | | |
|--|-------------------------------------|---|---------|----------|-----------------------------|-------|
| GAME SUMMARY | | | | | | |
| GAME NAME | | | | | | |
| GAME NO | | | | | | |
| GAME VARIATION | | VAR99 | VAR01 | VAR02 | VAR04 | VAR06 |
| THEORETICAL RETURN | (%) | | | | | |
| GAMES PLAYED | (PLAYS) | | | | | |
| GAMES WON | (COUNT) | | | | | |
| TURNOVER | (R) | | | | | |
| WINS EXCEPT JP | (R) | | | | | |
| JACKPOT HAND PAID | (R) | | | | | |
| < GAMBLE METERS > | | | | | | |
| GAMBLE GAMES PLAYED | (COUNT) | | | | | |
| GAMBLE GAMES WON | (COUNT) | | | | | |
| GAMBLE TURNOVER | (R) | | | | | |
| GAMBLE WINS | (R) | | | | | |
| < AUDIT METERS FORMULA > | | | | | | |
| | | LAST | CURRENT | INTERNAL | | |
| GAMES PLAYED | | | | | | |
| TO | (WINS EXCEPT JP) | | | | | |
| -TI | (TURNOVER) | | | | | |
| +CI | (TRUE COINS IN) | | | | | |
| -CI | (TRUE COINS OUT) | | | | | |
| +CLI | (CASHLESS IN) | | | | | |
| -CLO | (CASHLESS OUT) | | | | | |
| +BI | (BANKNOTES IN) | | | | | |
| -HP | (HAND PAID INC JP) | | | | | |
| +JP | (WINS HAND PAID) | | | | | |
| -CR | (CURRENT CREDITS) | | | | | |
| ----- | | | | | | |
| FORMULA RESULT | | | | | | |
| <input type="button" value="EXIT"/> | <input type="button" value="NEXT"/> | <input type="button" value="PREVIOUS"/> | | | YYYY / MM / DD HH : MM : SS | |
| POSITION MENU WITH LINE 1 OR LINE 5 - PRESS COLLECT TO SELECT / ACTIVATE | | | | | | |

This screen displays all game related data details since last RAM Clear.

| | |
|----------------------------|--|
| GAME NAME | Name of the game installed on the machine. |
| GAME NO | The unique game number used by manufacturer/programmer to identify the game. |
| GAME VARIATION | The current variation in percentage selected for the game. |
| THEORETICAL RETURN | The percentage returns to players. |
| GAMES PLAYED | Total number of games played. |
| GAMES WON | Total amount of games won. |
| TURNOVER | Total amount wagered on the machine. |
| WINS EXCEPT JP | Total amount won except jackpot (wins hand paid). |
| GAMBLE GAMES PLAYED | Total number of gamble has done. |
| GAMBLE GAMES WON | Total number of gamble won. |
| GAMBLE TURNOVER | Total amount wagered by gamble. |
| GAMBLE WINS | Total amount won by gamble. |

Audit Meters Formula used to check audit meters data integrity.

The following formula should result in zero otherwise the audit meters data is not correct and considered as corrupted.

$$TO - TI + CI - CO + CLI - CLO + BI - HP + JP - CR = 0.$$

If the formula result is not zero, then gamine machine will lock up with Self Audit Error message on the screen. To clear Self Audit Error, RAM Clear should be done.

| | |
|-----------------|--|
| LAST | The last game's audit meters data for host communication. |
| CURRENT | The current game's audit meters data for host communication. |
| INTERNAL | The current game's audit meters data for gaming machine internal memory. |

| | |
|---------------------|--|
| GAMES PLAYED | Total number of games played. |
| TO | Total credits of wins except jackpot (wins hand paid). This also includes external bonus which is paid to credit meter. This does not include external bonus which is hand paid. |
| TI | Total credits of turn over. |
| CI | Total credits of tokens/coins inserted. |
| CO | Total credits of tokens/coins paid out by hopper. |
| CLI | Total credits of cashless in. |
| CLO | Total credits of cashless out. |
| BI | Total credits of banknotes in. |
| HP | Total credits of hand paid. This will include hand paid by collect button and wins hand paid (jackpot). |
| JP | Total credits of wins hand paid. |
| CR | Current credits. |

SOFTWARE METERS (PAGE 3) – ASP protocol

AUDIT MODE - SOFT METERS SCREEN 3 OF 4

MONEY SUMMARY

| | |
|--|--|
| <p style="text-align: center;"><TOTAL></p> <p>CASH IN (R)</p> <p>COINS TO HOPPER (R)</p> <p>CASH BOX (R)</p> <p>BANKNOTES IN (R)</p> <p>CASH OUT (R)</p> <p>TRUE COINS OUT (R)</p> <p>CANCEL CREDIT EX JP (R)</p> <p>JACKPOT HAND PAID (R)</p> <p style="text-align: center;"><COIN ACCEPTOR></p> <p>DIVERTER FAULT (COUNT)</p> <p>COIN IN YO-YO (COUNT)</p> <p>COIN IN JAM (COUNT)</p> <p style="text-align: center;"><HAND PAY></p> <p>HAND PAID INC JP (R)</p> <p>CANCEL CREDIT EX JP (R)</p> <p>JACKPOT HAND PAID (R)</p> <p style="text-align: center;"><CASH BOX></p> <p>CASH BOX (R)</p> <p>TOTAL COINS CLEARED (R)</p> <p>PERIODIC LEVEL (COINS) (R)</p> <p>PERIODIC AMOUNT (R)</p> <p style="text-align: center;"><CASHLESS IN / OUT></p> <p>CASHLESS IN (R)</p> <p>CASHLESS OUT (R)</p> | <p style="text-align: center;"><HOPPER></p> <p>COINS TO HOPPER (R)</p> <p>TRUE COINS OUT (R)</p> <p>HOPPER LEVEL (R)</p> <p>EXTRA COIN OUT (COUNT)</p> <p>REFILL COUNT (COUNT)</p> <p>HOPPER REFILL (R)</p> <p>MAX HOPPER PAY LIMIT (COINS)</p> <p>HOPPER RUNAWAY (COUNT)</p> <p>HOPPER EMPTY (COUNT)</p> <p>HOPPER JAM (COUNT)</p> <p>HOPPER FULL (COUNT)</p> <p>HOPPER LEVEL HI LIMIT (R)</p> <p>HOPPER LOW HI (COUNT)</p> <p>HOPPER LEVEL LO LIMIT (R)</p> <p>HOPPER LEVEL LO (COUNT)</p> <p style="text-align: center;"><POWER / DOORS></p> <p>POWER UP (COUNT)</p> <p>MAIN / BELLY DOOR OPENS (COUNT)</p> <p>LOGIC SEAL BROKEN (COUNT)</p> <p>CASH BOX DOOR OPENS (COUNT)</p> <p>GAMES SINCE POWER UP (COUNT)</p> <p>GAMES SINCE DOOR CLOSE (COUNT)</p> |
|--|--|

EXIT
NEXT
PREVIOUS

YYYY / MM / DD HH : MM : SS

POSITION MENU WITH LINE 1 OR LINE 5 - PRESS COLLECT TO SELECT / ACTIVATE

| | | |
|----------------------|----------------------------|--|
| TOTAL | CASH IN | Total amount of money inserted as coins and notes. |
| | COINS TO HOPPER | Total amount of coins inserted into the hopper. |
| | CASHBOX DROP | Total amount of coins dropped into the cash box. |
| | BANKNOTES IN | Total amount of banknotes inserted into the stacker |
| | CASH OUT | Total amount of cash out. |
| | TRUE COINS OUT | Total amount of coins dispensed by the hopper. |
| | CANCEL CREDIT EX JP | Total amount of money paid as the cancel credit. |
| | JACKPOT HAND PAID | Total amount of money paid as the jackpot wins. |
| COIN ACCEPTOR | DIVERTER FAULT | Total number coin acceptor diverter faults. More than five consecutive coins went to the wrong direction (e.g. went to coin box if coins are expected to go into the hopper or vice versa). |
| | COIN IN YO-YO | Total number of coin in yo-yo errors (e.g. coin went to coin acceptor via opposite sequence) . |
| | COIN IN JAM | Total number of coin in jam error. |
| HAND PAY | HAND PAID INC JP | Total amount hand paid. This includes jackpot. |
| | CANCEL CREDIT EX JP | Total amount hand paid by means of collect. |
| | JACKPOT HAND PAID | Total amount of wins hand paid. |
| CASH BOX | CASH BOX | Total amount of coins directed to the cash box. |
| | TOTAL COINS CLEARED | The amount of coins cleared from the cash box. |

| | | |
|--------------------------|---|--|
| | PERIODIC LEVEL | The number of coins currently in the cash box. |
| | PERIODIC AMOUNT | The amount of coins currently in the cash box. |
| CASHLESS IN / OUT | CASHLESS IN | Total amount of cashless in. |
| | CASHLESS OUT | Total amount of cashless out. |
| HOPPER | COINS TO HOPPER | The amount of coins put into the hopper. This includes refilled amount to the hopper. |
| | TRUE COINS OUT | The amount of coins dispensed by the hopper. This includes hopper paid by collect and credit limit. This will not include extra coin out. |
| | HOPPER LEVEL | The amount of coins currently in the hopper. |
| | EXTRA COIN OUT | Total number of extra coins dispensed by hopper. |
| | REFILL COUNT | The number of times hopper refilled. |
| | HOPPER REFILL | Total amount of coins hopper refilled. |
| | MAX HOPPER PAY LIMIT | The maximum hopper pay out amount available. |
| | HOPPER RUNAWAY | The number of hopper ran away. |
| | HOPPER EMPTY | The number of hopper was empty. |
| | HOPPER JAM | The number of hopper jammed. |
| | HOPPER FULL | The number of hopper was full. |
| | HOPPER LEVEL HI LIMIT | The hopper level high limit amount set for the warning alarm purpose (ASP protocol only). |
| | HOPPER LEVEL HI | The number of occurrence hopper level reached or exceeded the hopper level high limit (ASP protocol only). |
| | HOPPER LEVEL LO LIMIT | The hopper level low limit amount set for the warning alarm purpose (ASP protocol only). |
| HOPPER LEVEL LO | The number of occurrence hopper level reached or became below the hopper level low limit (ASP protocol only). | |
| POWER / DOORS | POWER UP | The number of power turned on. |
| | MAIN / BELLY DOOR OPENS | The number of main door or belly door opened. |
| | LOGIC SEAL BROKEN | The number of logic seal broken. |
| | CASHBOX DOOR OPENS | The number of cash box door opened. |
| | GAMES SINCE POWER UP | The number of games played since power up. |
| | GAMES SINCE DOOR CLOSE | The number of games played since door closure. This counter becomes reset by opening the main/belly/cashbox door. |

SOFTWARE METERS (PAGE 3) – SAS protocol

| AUDIT MODE - SOFT METERS | | SCREEN 3 OF 4 |
|---|--|--------------------------------|
| MONEY SUMMARY | | |
| <TOTAL> | | <HOPPER> |
| CASH IN (R) | | COINS TO HOPPER (R) |
| COINS TO HOPPER (R) | | TRUE COINS OUT (R) |
| CASH BOX (R) | | |
| BANKNOTES IN (R) | | HOPPER LEVEL (R) |
| CASH OUT (R) | | EXTRA COIN OUT (COUNT) |
| TRUE COINS OUT (R) | | REFILL COUNT (COUNT) |
| CANCEL CREDIT EX JP (R) | | HOPPER REFILL (R) |
| JACKPOT HAND PAID (R) | | MAX HOPPER PAY LIMIT (COINS) |
| | | HOPPER RUNAWAY (COUNT) |
| <COIN ACCEPTOR> | | HOPPER EMPTY (COUNT) |
| DIVERTER FAULT (COUNT) | | HOPPER JAM (COUNT) |
| COIN IN YO-YO (COUNT) | | HOPPER FULL (COUNT) |
| COIN IN JAM (COUNT) | | |
| <HAND PAY> | | <POWER / DOORS> |
| HAND PAID INC JP (R) | | POWER UP (COUNT) |
| CANCEL CREDIT EX JP (R) | | MAIN DOOR OPENS (COUNT) |
| JACKPOT HAND PAID (R) | | LOGIC DOOR OPENS (COUNT) |
| | | CASH BOX DOOR OPENS (COUNT) |
| <CASH BOX> | | BELLY DOOR OPENS (COUNT) |
| CASH BOX (R) | | GAMES SINCE POWER UP (COUNT) |
| TOTAL COINS CLEARED (R) | | GAMES SINCE DOOR CLOSE (COUNT) |
| PERIODIC LEVEL (COINS) | | |
| PERIODIC AMOUNT (R) | | |
| <CASHLESS IN / OUT> | | |
| CASHLESS IN (R) | | |
| CASHLESS OUT (R) | | |
| <div style="display: flex; justify-content: space-around; margin-top: 10px;"> EXIT NEXT PREVIOUS CASHBOX </div> | | |
| YYYY / MM / DD HH : MM : SS | | |
| POSITION MENU WITH LINE 1 OR LINE 5 - PRESS COLLECT TO SELECT / ACTIVATE | | |

| | | |
|----------------------|----------------------------|--|
| TOTAL | CASH IN | Total amount of money inserted as coins and notes. |
| | COINS TO HOPPER | Total amount of coins inserted into the hopper. |
| | CASHBOX DROP | Total amount of coins dropped into the cash box. |
| | BANKNOTES IN | Total amount of banknotes inserted into the stacker |
| | CASH OUT | Total amount of cash out. |
| | TRUE COINS OUT | Total amount of coins dispensed by the hopper. |
| | CANCEL CREDIT EX JP | Total amount of money paid as the cancel credit. |
| | JACKPOT HAND PAID | Total amount of money paid as the jackpot wins. |
| COIN ACCEPTOR | DIVERTER FAULT | Total number coin acceptor diverter faults. More than five consecutive coins went to the wrong direction (e.g. went to coin box if coins are expected to go into the hopper or vice versa). |
| | COIN IN YO-YO | Total number of coin in yo-yo errors (e.g. coin went to coin acceptor via opposite sequence) . |
| | COIN IN JAM | Total number of coin in jam error. |
| HAND PAY | HAND PAID INC JP | Total amount hand paid. This includes jackpot. |
| | CANCEL CREDIT EX JP | Total amount hand paid by means of collect. |
| | JACKPOT HAND PAID | Total amount of wins hand paid. |
| CASH BOX | CASH BOX | Total amount of coins directed to the cash box. |
| | TOTAL COINS CLEARED | The amount of coins cleared from the cash box. |

| | | |
|--------------------------|-------------------------------|--|
| | PERIODIC LEVEL | The number of coins currently in the cash box. |
| | PERIODIC AMOUNT | The amount of coins currently in the cash box. |
| CASHLESS IN / OUT | CASHLESS IN | Total amount of cashless in. |
| | CASHLESS OUT | Total amount of cashless out. |
| HOPPER | COINS TO HOPPER | The amount of coins put into the hopper. This includes refilled amount to the hopper. |
| | TRUE COINS OUT | The amount of coins dispensed by the hopper. This includes hopper paid by collect and credit limit. This will not include extra coin out. |
| | HOPPER LEVEL | The amount of coins currently in the hopper. |
| | EXTRA COIN OUT | Total number of extra coins dispensed by hopper. |
| | REFILL COUNT | The number of times hopper refilled. |
| | HOPPER REFILL | Total amount of coins hopper refilled. |
| | MAX HOPPER PAY LIMIT | The maximum hopper pay out amount available. |
| | HOPPER RUNAWAY | The number of hopper ran away. |
| | HOPPER EMPTY | The number of hopper was empty. |
| | HOPPER JAM | The number of hopper jammed. |
| | HOPPER FULL | The number of hopper was full. |
| POWER / DOORS | POWER UP | The number of power turned on. |
| | MAIN DOOR OPENS | The number of main door opened. |
| | LOGIC DOOR OPENS | The number of logic door opened. |
| | CASHBOX DOOR OPENS | The number of cash box door opened. |
| | BELLY DOOR OPENS | The number of belly door opened. |
| | GAMES SINCE POWER UP | The number of games played since power up. |
| | GAMES SINCE DOOR CLOSE | The number of games played since door closure. This counter becomes reset by opening the main/belly/cashbox door. |

SOFTWARE METERS (PAGE 4)

| AUDIT MODE - SOFT METERS | | | SCREEN 4 OF 4 | | |
|---|-----------|---------|-----------------------------|-----------|---------|
| NOTE ACCEPTOR | | | | | |
| <TOTAL> | | | <PERIODIC> | | |
| R10 | BANKNOTES | (COUNT) | R10 | BANKNOTES | (COUNT) |
| R20 | BANKNOTES | (COUNT) | R20 | BANKNOTES | (COUNT) |
| R50 | BANKNOTES | (COUNT) | R50 | BANKNOTES | (COUNT) |
| R100 | BANKNOTES | (COUNT) | R100 | BANKNOTES | (COUNT) |
| R200 | BANKNOTES | (COUNT) | R200 | BANKNOTES | (COUNT) |
| TOTAL BANKNOTES (COUNT) | | | TOTAL BANKNOTES (COUNT) | | |
| TOTAL ACCEPTED (R) | | | TOTAL ACCEPTED (R) | | |
| TOTAL REMOVED (R) | | | | | |
| STACKER DOOR (COUNT) | | | | | |
| <FAULTS> | | | <HISTORY> | | |
| TOTAL REJECT (COUNT) | | | THE LAST | | |
| EXCESSIVE REJECT (COUNT) | | | 2ND LAST | | |
| STACKER REMOVED (COUNT) | | | 3RD LAST | | |
| STACKER FULL (COUNT) | | | 4TH LAST | | |
| BANKNOTE JAM (COUNT) | | | 5TH LAST | | |
| DISCONNECTED (COUNT) | | | | | |
| <input type="button" value="EXIT"/> <input type="button" value="NEXT"/> <input type="button" value="PREVIOUS"/> | | | YYYY / MM / DD HH : MM : SS | | |
| POSITION MENU WITH LINE 1 OR LINE 5 - PRESS COLLECT TO SELECT /ACTIVATE | | | | | |

Above Bill Acceptor screen will not appear in the Audit mode when Bill Acceptor Type was set to 'NONE' in the RAM Clear Set-up screen.

Total meters show all bank notes accepted into the machine since last RAM clear.

Periodic meters show all bank notes accepted into the machine since the last periodic meters reset by the host. Periodic meters reset action can be done by the host only. History shows records of the last 5 notes inserted into the machine.

| | | |
|-----------------|------------------------|---|
| TOTAL | R10 BANKNOTES | Total number of R10 banknotes inserted. |
| | R20 BANKNOTES | Total number of R20 banknotes inserted. |
| | R50 BANKNOTES | Total number of R50 banknotes inserted. |
| | R100 BANKNOTES | Total number of R100 banknotes inserted. |
| | R200 BANKNOTES | Total number of R200 banknotes inserted. |
| | TOTAL BANKNOTES | Total number of banknotes inserted. |
| | TOTAL ACCEPTED | Total amount of banknotes inserted. |
| | TOTAL REMOVED | Total amount of banknotes removed. |
| | STACKER DOOR | Total number of times stacker door opened. |
| FAULTS | TOTAL REJECT | Total number of occurrence banknotes rejected. |
| | STACKER REMOVED | Total number of times stacker removed. |
| | STACKER FULL | Total number of times stacker full. |
| | BANKNOTE JAM | Total number of banknote jam errors. |
| | DISCONNECTED | Total number of note acceptor disconnected. |
| PERIODIC | R10 BANKNOTES | Total number of R10 banknotes inserted since the current period. |
| | R20 BANKNOTES | Total number of R20 banknotes inserted since the current period. |
| | R50 BANKNOTES | Total number of R50 banknotes inserted since the current period. |
| | R100 BANKNOTES | Total number of R100 banknotes inserted since the current period. |
| | R200 BANKNOTES | Total number of R200 banknotes inserted since the current period. |
| | TOTAL BANKNOTES | Total number of banknotes inserted. |
| | TOTAL ACCEPTED | Total amount inserted since current periodic. |
| HISTORY | THE LAST | Time stamp and the amount of the last banknote. |
| | 2ND LAST | Time stamp and the amount of the 2 nd last banknote. |
| | 3RD LAST | Time stamp and the amount of the 3 rd last banknote. |
| | 4TH LAST | Time stamp and the amount of the 4 th last banknote. |
| | 5TH LAST | Time stamp and the amount of the 5 th last banknote. |

2.3 GAME RECALL

AUDIT MODE - GAME RECALL

| | | | |
|----------|------------|----------|---------------|
| BET(CR): | START(CR): | END(CR): | WON(CR): |
| T.O.: | CASHBOX: | C.CR: | COIN I/O: |
| WON: | BANKNOTE: | JP: | MONEY I/O: |
| | | | CASHLESS I/O: |

| | | |
|----|--|----|
| 4 | | 16 |
| 22 | | 24 |
| 10 | | 2 |
| 14 | | 6 |
| 9 | | 13 |
| 21 | | 19 |
| 1 | | 1 |
| 18 | | 20 |
| 8 | | 12 |
| 15 | | 7 |
| 11 | | 3 |
| 23 | | 25 |
| 5 | | 17 |

| | | | |
|-------------|-------------|-----------------|---------------------|
| EXIT | NEXT | PREVIOUS | CURRENT GAME |
|-------------|-------------|-----------------|---------------------|

POSITION MENU WITH LINE 1 OR LINE 5 – PRESS COLLECT TO SELECT/ACTIVATE

The result of the last twenty games is available in GAME RECALL mode. All information pertaining to the game is displayed.

NEXT steps to the double up screen and then the Last Game screen.

Double Up screen will be displayed after each game screen (see next Page).

| | |
|---------------------|--|
| BET (CR) | Credit bet (Credit per line x Play line) |
| START (CR) | Credit after bet |
| END (CR) | Credit available after play |
| WON (CR) | Credit won from play |
| T.O | Total turnover in currency |
| CASHBOX | Total amount of coins into the coin box |
| C.CR | Total amount of cancel credit |
| COIN I/O | Total amount of coin input/output |
| WON | Total amount of won |
| BANKNOTE | Total amount of banknotes into the stacker |
| JP | Total amount of jackpot (wins hand paid) |
| MONEY I/O | Total amount of money input/output |
| CASHLESS I/O | Total amount of cashless input/output |

GAME RECALL (DOUBLE UP)

AUDIT MODE - GAME RECALL

| | | | |
|----------|------------|----------|---------------|
| BET(CR): | START(CR): | END(CR): | WON(CR): |
| T.O.: | CASHBOX: | C.CR: | COIN I/O: |
| WON: | BANKNOTE: | JP: | MONEY I/O: |
| | | | CASHLESS I/O: |

| | YOUR CARD | ACTUAL CARD | WON | CREDIT |
|---------------------|-----------|-------------|-----|--------|
| BEFORE DOUBLE UP | | | 5 | 20 |
| AFTER 1ST DOUBLE UP | RED | BLACK | 0 | 20 |
| AFTER 2ND DOUBLE UP | | | | |
| AFTER 3RD DOUBLE UP | | | | |
| AFTER 4TH DOUBLE UP | | | | |
| AFTER 5TH DOUBLE UP | | | | |

EXIT

NEXT

PREVIOUS

CURRENT GAME

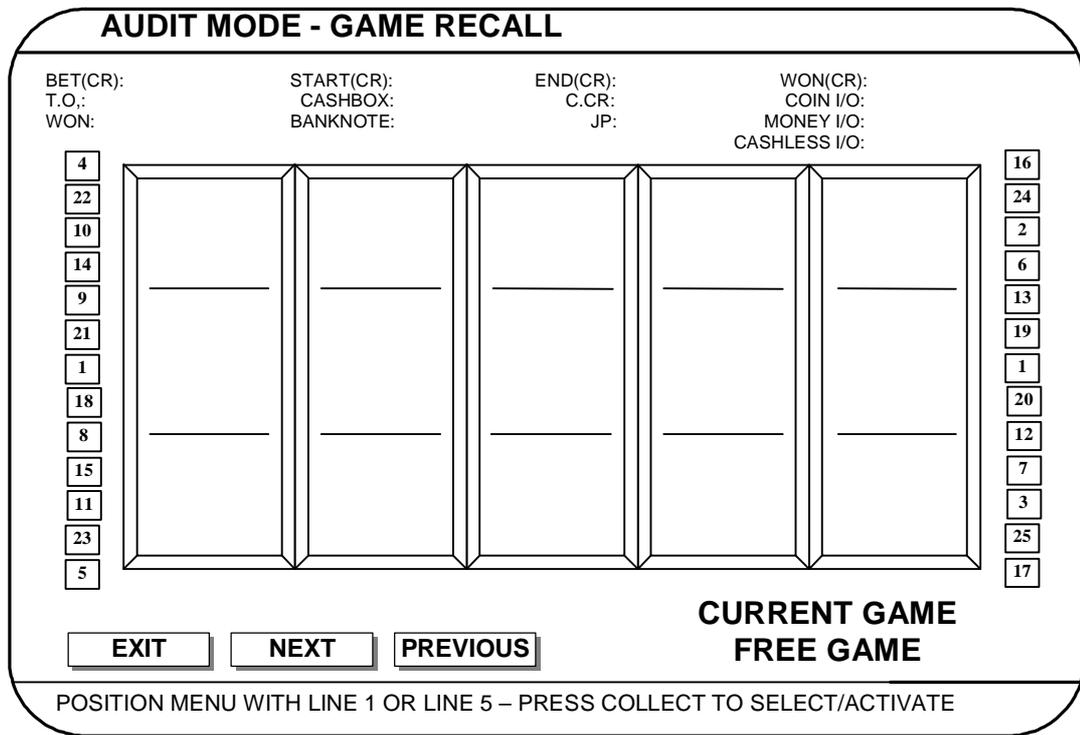
POSITION MENU WITH LINE 1 OR LINE 5 - PRESS COLLECT TO SELECT/ACTIVATE

In the above screen, the credit was 20 and credit won was 5 BEFORE DOUBLE UP. The credit won was not added to old credit and if double up win, then the credit won will be added. AFTER 1ST DOUBLE UP, credit 5 is lost and old credit 20 is not changed.

NEXT steps to the LAST GAME stored.

If the Last Game is a Bonus Game, then Bonus Game screen will be displayed (see next Page).

GAME RECALL (BONUS GAME)



Bonus game can be identified by additional information displayed on the right bottom of the screen.

2.4 MACHINE ID & STATUS

MACHINE ID – ASP protocol

| AUDIT MODE - MACHINEID & STATUS | | SCREEN 1 OF 3 |
|---|--|-----------------|
| MACHINEID | | |
| MACHINE SERIAL NUMBER | | 1 |
| MANUFACTURER ID | | 6 |
| MANUFACTURER NAME | UNIVERSAL DISTRIBUTING OF NEVADA, Inc. | |
| FIRMWARE ID | BOOT ROM : | EBRXX020 |
| | GAME ROMS | ON4S41S |
| FIRMWARE VERSION | | 4.1 |
| GAME NAME | OCEAN COMMOTION 2 | |
| GAME NUMBER | | 162 |
| MAXIMUM BET | (CR) | 1000 |
| THEORETICAL RETURN | (%) | 88.09 |
| MAXIMUM POSSIBLE WIN | (CR) | 304320 |
| ASP VERSION | | 5000H |
| SECURITY LEVEL | (0..3) | 0 (0 = HIGHEST) |
| <input type="button" value="EXIT"/> <input type="button" value="NEXT"/> <input type="button" value="PREVIOUS"/> | | |
| YYYY / MM / DD HH : MM : SS | | |
| POSTION MENU WITH LINE 1 OR LINE 5 - PRESS COLLECT TO SELECT / ACTIVATE | | |

| | |
|----------------------------------|---|
| MACHINE SERIAL NUMBER | Machine serial number set by RAM Clear Setup screen. |
| MANUFACTURER ID | Manufacturer identification number assigned by the ASP protocol document. |
| MANUFACTURER NAME | Manufacturer's name. |
| FIRMWARE ID | Firmware identification number of both the Boot EPROM and game EPROMs. |
| FIRMWARE VERSION | Firmware version number. |
| GAME NAME | Game name. |
| GAME NUMBER | Unique game number. |
| MAXIMUM BET | Maximum bet. |
| THEORETICAL RETURN | Theoretical percentage return to the player for the game. |
| MAXIMUM POSSIBLE WIN (CR) | Maximum possible win in credits by the max bet. |
| ASP VERSION | ASP protocol version number. |
| SECURITY LEVEL | Security Level (0..3). |

MACHINE ID – SAS protocol

| AUDIT MODE - MACHINEID & STATUS | | PAGE 1 OF 3 |
|---|--|-----------------------------|
| MACHINEID | | |
| MACHINE SERIAL NUMBER | | 1 |
| MANUFACTURER ID | | UN |
| MANUFACTURER NAME | UNIVERSAL DISTRIBUTING OF NEVADA, Inc. | |
| FIRMWARE ID | BOOT ROM : | EBRX020 |
| | GAME ROMS: | ON4S541S |
| FIRMWARE VERSION | | 4.1 |
| GAME NAME | OCEAN COMMOTION 2 | |
| GAME NUMBER | | 162 |
| MAXIMUM BET | (CR) | 1000 |
| THEORETICAL RETURN | (%) | 88.09 |
| MAXIMUM POSSIBLE WIN | (CR) | 304320 |
| GAME DENOMINATION CODE | | 0x01 (R0.01) |
| SAS VERSION | | 5.02 |
| <input type="button" value="EXIT"/> <input type="button" value="NEXT"/> <input type="button" value="PREVIOUS"/> | | YYYY / MM / DD HH : MM : SS |
| POSITION MENU WITH LINE 1 OR LINE 5 - PRESS COLLECT TO SELECT / ACTIVATE | | |

| | |
|-------------------------------|---|
| SERIAL NUMBER | The gaming machine serial number set by RAM Clear Set-up screen. |
| MANUFACTURER ID | The unique code assigned by SAS protocol to identify manufacturer and game. |
| MANUFACTURER NAME | The manufacturer name. |
| FIRMWARE ID | Firmware identification number of both the Boot EPROM and the Game EPROMs. |
| FIRMWARE VERSION | Firmware version number. |
| GAME NAME | Game Name. |
| GAME NUMBER | Additional ID to identify game. |
| MAXIMUM BET | Maximum bet in credits. |
| THEORETICAL RETURN | Theoretical percentage return to the player for the game. |
| MAXIMUM POSSIBLE WIN | Maximum possible win in credits by the max bet. |
| GAME DENOMINATION CODE | Denomination code assigned by SAS protocol document |
| SAS VERSION | SAS protocol version number. |

MACHINE STATUS

| AUDIT MODE - MACHINE ID & STATUS | | SCREEN 2 OF 3 |
|--|---------|---------------|
| MACHINE STATUS | | |
| COIN ACCEPTOR | | |
| COIN ACCEPTOR CREDIT LIMIT | (R) | (0=DISABLE) |
| | | |
| HOPPER | | |
| MAX HOPPER PAY LIMIT | (R) | (0=HANDPAY) |
| | | |
| NOTE ACCEPTOR | | |
| NOTE ACCEPTOR CREDIT LIMIT | (R) | (0=DISABLE) |
| | | |
| JACKPOT HAND PAY LIMIT | (R) | (0=DISABLE) |
| JACKPOT HAND PAID | (COUNT) | |
| LAST JACKPOT HAND PAID | (R) | |
| | | |
| CELEBRATION WIN LIMIT | (R) | (0=DISABLE) |
| CELEBRATION WIN | (COUNT) | |
| LAST LARGE WIN | (R) | |
| | | |
| CREDIT LIMIT | (R) | (0=DISABLE) |
| CREDIT LIMIT EXCEEDED | (COUNT) | |
| LAST CREDIT LIMIT WIN | (R) | |
| | | |
| LARGE WIN LIMIT | (R) | (0=DISABLE) |
| LARGE WIN | (COUNT) | |
| LAST LARGE WIN | (R) | |
| <input type="button" value="EXIT"/> <input type="button" value="NEXT"/> <input type="button" value="PREVIOUS"/> YYYY / MM / DD HH : MM : SS | | |
| POSITION MENU WITH LINE 1 OR LINE 5 - PRESS COLLECT TO SELECT/ACTIVATE | | |

This screen displays EGM status and win limits related information.

| | |
|-----------------------------------|--|
| COIN ACCEPTOR | Coin acceptor status. |
| COIN ACCEPTOR CREDIT LIMIT | Coin acceptor credit limit. |
| HOPPER | Hopper status. |
| HOPPER PAY LIMIT | Hopper pay limit. |
| NOTE ACCEPTOR | Note acceptor status. |
| NOTE ACCEPTOR CREDIT LIMIT | Note acceptor credit limit. |
| JACKPOT HAND PAY LIMIT | Jackpot hand pay limit. |
| JACKPOT HAND PAID | Jackpot hand paid counter. |
| LAST JACKPOT HAND PAID | Last jackpot hand paid amount. |
| CELEBRATION WIN LIMIT | Celebration win limit. |
| CELEBRATION WIN | Celebration win counter. |
| LAST CELEBRATION WIN | Last celebration win amount. |
| CREDIT LIMIT | Credit limit. |
| CREDIT LIMIT EXCEEDED | Credit limit counter. |
| LAST CREDIT LIMIT WIN | Last win amount which has caused a credit limit. |
| LARGE WIN LIMIT | Large win limit. |
| LARGE WIN | Large win counter. |
| LAST LARGE WIN | Last large win amount. |

HOST COMMUNICATION STATUS

| | |
|---|---------------|
| AUDIT MODE - MACHINE ID & STATUS | SCREEN 3 OF 3 |
| <p>HOST COMMUNICATION STATUS</p> <p>TOTAL POLLS LINK DOWN NON ACKNOWLEDGE (NAK) FROM HOST CRC ERRORS OVERRUN ERRORS COLLISION OCCURRED CORRUPTED PACKETS PACKET ERROR RATE (%) BAD SEQUENCE NUMBER AUDIT METER POLL (SECONDS) APPLICATION LAYER DATA LINK LAYER</p> | |
| <p> <input type="button" value="EXIT"/> <input type="button" value="NEXT"/> <input type="button" value="PREVIOUS"/> <input type="button" value="RESET"/> </p> <p style="text-align: right; font-size: small;">YYYY / MM / DD HH : MM : SS</p> <p style="text-align: center; font-size: x-small;">POSITION MENU WITH LINE 1 OR LINE 5 - PRESS COLLECT TO SELECT / ACTIVATE</p> | |

| | |
|--|---|
| TOTAL POLLS | The number of total polls. |
| LINK DOWN | The number of link down. |
| NON ACKNOWLEDGE (NAK) FROM HOST | The number of NAK from host. |
| CRC ERRORS | The number of CRC errors. |
| COLLISION OCCURRED | The number of collision occurred. |
| CORRUPTED PACKETS | The number of corrupted packets. |
| PACKET ERROR RATE | Packet error rate (%) |
| BAD SEQUENCE NUMBER | The number of bad sequence number occurred. |
| AUDIT METER POLL | Audit meter poll (seconds) |
| APPLICATION LAYER | Application Layer Tx / Rx status |
| DATA LINK LAYER | Data Link Layer Tx / Rx status |

2.5 GAME STATISTICS

AUDIT MODE - GAME STATISTICS

GAME:
CREDITS WON %
GAMES WON %

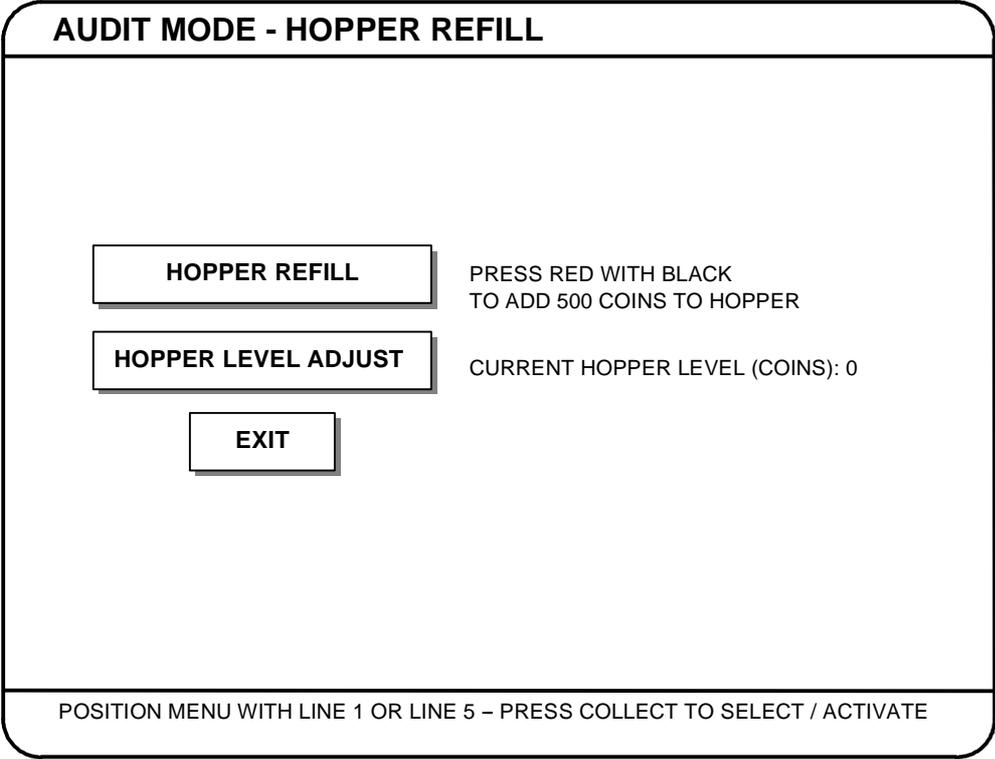
| - TYPE - | - COUNT - | - TYPE - | - COUNT - |
|----------------|-----------|----------------|-----------|
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |
| Game Dependent | 0 | Game Dependent | 0 |

EXIT

PRESS COLLECT TO EXIT

This screen displays the occurrence of all winning combinations for the game. The symbol names shown above are only to illustrate. The symbol names will differ from game to game as they are game dependant. Up top it displays both the percentage of credits won and the percentage of games won.

2.6 HOPPER REFILL

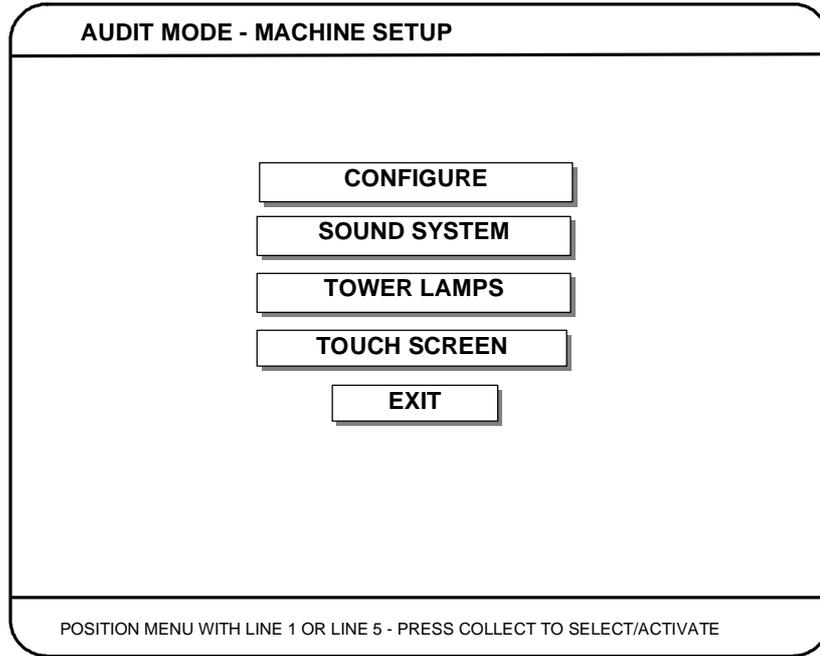


This screen is used to refill the Hopper with the number of coins as set after the last RAM CLEAR. Select Hopper Refill button, the message 'PRESS RED WITH BLACK TO ADD 500 COINS TO HOPPER and CURRENT HOPPER LEVEL: 0 COINS ' will be displayed on the screen as shown above (500 may vary depending on the refill amount which has configured from the RAM Clear Setup screen). Follow the prompt line instructions and after successfully completing the refill procedure the message 'HOPPER REFILL FINISHED - 500 COINS ADDED TO HOPPER' will appear on the screen and current hopper level will be incremented by the refilled number of coins.

Hopper level adjust button can be used to adjust the hopper level by a key input and this can help to synchronize software hopper level and actual hardware hopper level.

2.7 MACHINE SETUP

2.7.1 MACHINE SETUP



| | |
|---------------------|-------------------------------|
| CONFIGURE | System configuration options. |
| SOUND SYSTEM | Sound system setup. |
| TOWER LAMPS | Tower lamps setup. |
| TOUCH SCREEN | Touch screen calibration |

2.7.2 CONFIGURE

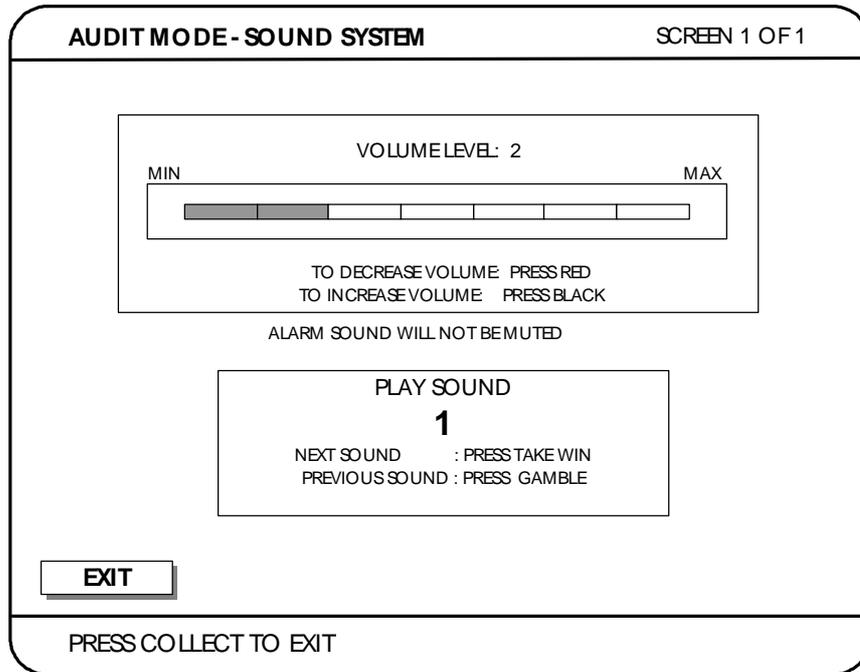
| AUDIT MODE – CONFIGURE | | SCREEN 1 OF 1 |
|--|-----------|-------------------------|
| RAM CLEAR SETUP DATA | | |
| MACHINE SERIAL NUMBER | (GMID) | 1 |
| HOST COMMUNICATION ADDRESS | (1 - 127) | 1 |
| TOKENIZATION | (R) | 1 (NONE= CASHLESS ONLY) |
| DENOMINATION | (R) | 0.01 |
| VARIATION | | 99 (88.09%) |
| BET BUTTON CONFIGURATION | | 1, 2, 5, 10, 40 |
| CASHLESS TRANSFER FROM HOST | | YES |
| GAMBLE ENABLE | | YES |
| POWER SAVE ENABLE | | YES |
| DATE (YYYY / MM / DD) | | 2004 / 04 / 23 |
| TIME (HH : MM : SS) | | 12 : 30 : 00 |
| COIN VALIDATOR TYPE | | CONDOR FLUSCP133 |
| HOPPER TYPE | | GM |
| * CANCEL CREDIT LEVEL | (COINS) | 100 (0 = HAND PAY) |
| HOPPER REFILL AMOUNT | (COINS) | 500 |
| HOPPER LEVEL LOW LIMIT | (COINS) | 0 (0 = DISABLE) |
| BONUS/ MULTIPLIER WIN FROM HOST | | YES |
| ALLOW PLAYER TO CANCEL HAND PAY | | NO |
| ALLOW PLAYER TO CASH OUT RESIDUAL CREDITS | | NO |
| CASHLESS OUT CREDIT WIN / CREDIT LIMIT | | YES |
| HAND PAY CREDIT WIN (NON-CASHLESS MODE) | (R) | YES |
| CASH OUT CREDIT LIMIT (NON-CASHLESS MODE) | | YES |
| PROTOCOL | | SAS 5.02 |
| SECURITY LEVEL | | HIGHEST |
| RESERVE BUTTON ENABLE | | NO |
| * JACKPOT HAND PAY LIMIT | (R) | 0.00 (0 = DISABLE) |
| * CELEBRATION WIN LIMIT | (R) | 0.00 (0 = DISABLE) |
| * CREDIT LIMIT | (R) | 0.00 (0 = DISABLE) |
| NOTE ACCEPTOR | | GPT V2.2 |
| R10 BANKNOTES ACCEPTED | | YES |
| R20 BANKNOTES ACCEPTED | | YES |
| R50 BANKNOTES ACCEPTED | | YES |
| R100 BANKNOTES ACCEPTED | | YES |
| R200 BANKNOTES ACCEPTED | | YES |
| * REQUIRES THE LOGIC DOOR OPEN TO MODIFY AFTER A RAM RESET. GRAY COLOUR MEANS READ ONLY AND CAN NOT MODIFY. | | |
| POSITION CURSOR WITH LINE 9 OR LINE 20 – PRESS LINE 25 TO CHANGE PRESS COLLECT TO EXIT | | |

| | |
|---|---|
| MACHINE SERIAL NUMBER (GMID) | Machine serial number. |
| HOST COMMUNICATION ADDRESS (1-127) | Host communication address (not applicable in ASP protocol and apply to SAS protocol only). |
| TOKENIZATION | Token / Coin denomination. |
| DENOMINATION | Base credit value. |
| VARIATION | Current game variation. |
| BET BUTTON CONFIGURATION | Bet button configuration. |
| CASHLESS TRANSFER FROM HOST | Cashless Transfer from host (yes/no). |
| GAMBLE ENABLE | Gamble Enable (yes/no). |
| POWER SAVE ENABLE | Power Save Enable (yes/no). |
| DATE (YYYY / MM / DD) | Date setting. |
| TIME (HH : MM : SS) | Time setting. |
| COIN VALIDATOR TYPE | Coin validator type. |
| HOPPER TYPE | Hopper type. |
| CANCEL CREDIT LEVEL (COINS) | Cancel credit trigger level in coins. |
| HOPPER REFILL AMOUNT (COINS) | Hopper refill amount in coins |

| | |
|--|--|
| HOPPER LEVEL LOW LIMIT (COINS) | Hopper level low limit which is set by the host in ASP protocol but may set manually in SAS protocol |
| BONUS / MULTIPLIER WIN FROM HOST | Bonus / Multiplier win from host (yes/no). |
| ALLOW PLAYER TO CANCEL HAND PAY | Allow player to cancel hand pay (yes/no). |
| ALLOW PLAYER TO CASH OUT RESIDUAL CREDITS | Allow player to cash out residual credits (yes/no) |
| CASHLESS OUT CEL.WIN / CR.LIMIT | Cashless out for Celebration Win and Credit Limit (yes/no) |
| HAND PAY CEL.WIN (NON-CASHLESS MODE) | Hand pay Celebration Win during non-cashless mode (yes/no) |
| CASH OUT CR.LIMIT (NON-CASHLESS MODE) | Cash out Credit Limit during non-cashless mode (yes/no) |
| PROTOCOL | Protocol type (SAS/ASP). |
| SECURITY LEVEL | <p>Lowest:</p> <ul style="list-style-type: none"> • No lock up for the gaming machine <p>Low:</p> <ul style="list-style-type: none"> • Lock the gaming machine up by a power up (ASP/SAS). For the SAS protocol, power up lockup condition is automatically cleared by host communication link up. • Lock the gaming machine up by a large win (ASP protocol only) • Lock the gaming machine up by a logic seal broken (ASP protocol only) <p>High:</p> <ul style="list-style-type: none"> • Lock the gaming machine up by a power up (ASP/SAS). For the SAS protocol, power up lockup condition is automatically cleared by host communication link up. • Lock the gaming machine up by a large win (ASP protocol only) • Lock the gaming machine up by a logic seal broken (ASP protocol only) • Lock the gaming machine up by a link progressive jackpot communication failure if link progressive jackpot is used (ASP/SAS) <p>Highest:</p> <ul style="list-style-type: none"> • Lock the gaming machine up by a power up (ASP/SAS). For the SAS protocol, power up lockup condition is automatically cleared by host communication link up. • Lock the gaming machine up by a large win (ASP protocol only) • Lock the gaming machine up by a logic seal broken (ASP protocol only) • Lock the gaming machine up by a link progressive jackpot communication failure if link progressive jackpot is used (ASP/SAS). • Lock the gaming machine up by a host |

| | |
|--------------------------------|-----------------------------------|
| | communication failure (ASP/SAS). |
| RESERVE BUTTON ENABLE | Reserve Button Enable (yes/no) |
| JACKPOT HAND PAY LIMIT | Jackpot hand pay limit. |
| CELEBRATION WIN LIMIT | Celebration win limit. |
| CREDIT LIMIT | Credit limit. |
| NOTE ACCEPTOR TYPE | Note acceptor type. |
| R10 BANKNOTES ACCEPTED | R10 banknotes accepted (yes/no). |
| R20 BANKNOTES ACCEPTED | R20 banknotes accepted (yes/no). |
| R50 BANKNOTES ACCEPTED | R50 banknotes accepted (yes/no). |
| R100 BANKNOTES ACCEPTED | R100 banknotes accepted (yes/no). |
| R200 BANKNOTES ACCEPTED | R200 banknotes accepted (yes/no). |

2.7.3 SOUND SYSTEM



Volume can be adjusted by following the prompts on the screen.
 The sound test will activate all sounds in the game. Follow the prompts on screen.

| | |
|---------------------|---|
| VOLUME LEVEL | Press RED or BLACK to increase or decrease sound volume level. Sound volume level (from 0 to 7) will be displayed. Level 0 will mute the game sound but the alarm sound will not be muted. |
| PLAY SOUND | Select and play sound using TAKE WIN or GAMBLE. Press TAKE WIN or GAMBLE again to stop the selected sound (and listen to the next sound). |

2.7.4 TOWER LAMPS

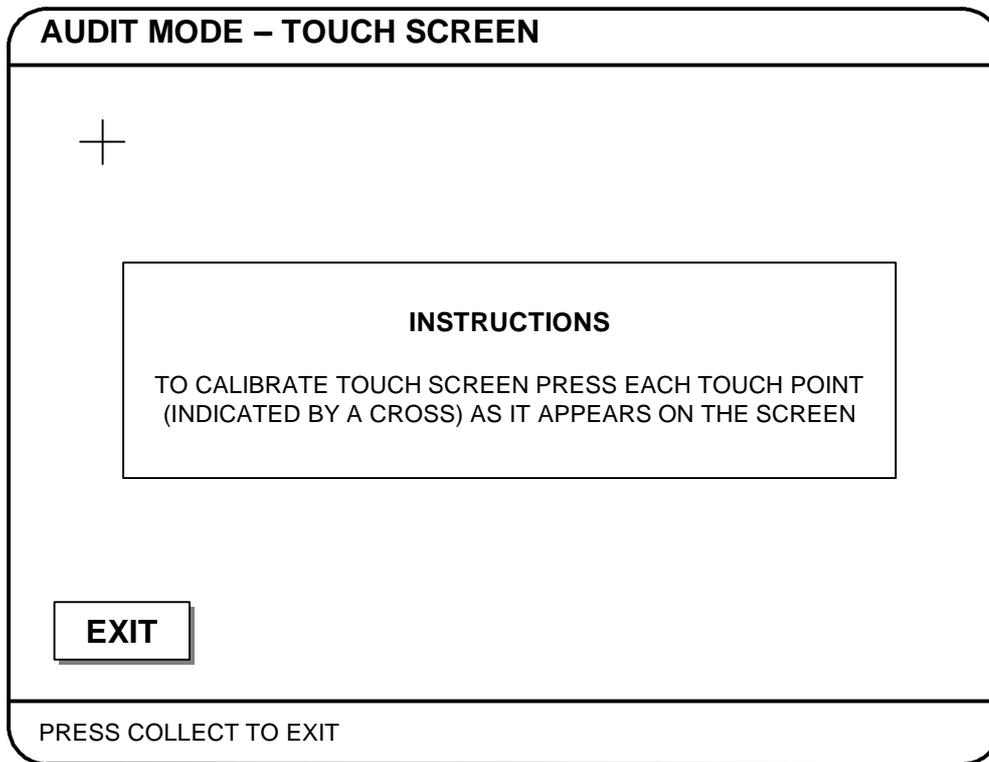
| TOWER LAMPS | AUDIT MODE | PAGE 1 OF 1 |
|--|--------------------------|-------------|
| TOWER LIGHT TYPE | 2 TIER | |
| FLASH RATE (SECONDS) | 0.5 | |
| CHANGE ON | N/A | |
| CHANGE OFF | N/A | |
| DOOR OPEN | LOW FLASH | |
| DOOR CLOSE (OR RESET TILT/JP AFTER DOOR CLOSE) | LOW ON | |
| TILT | TOP FLASH | |
| TILT AFTER DOOR CLOSE | TOP FLASH / LOW OFF | |
| RESET TILT (NOT AFTER DOOR CLOSE) | ALL OFF | |
| DOOR OPEN WITH TILT | FLASH TOP&LOW SYNC | |
| DOOR CLOSE WITH TILT | FLASH TOP&LOW SYNC | |
| JACKPOT | FLASH TOP&LOW ALT | |
| JACKPOT AFTER DOOR CLOSE | FLASH TOP&LOW ALT | |
| RESET JACKPOT (NOT AFTER DOOR CLOSE) | ALL OFF | |
| DOOR OPEN WITH JACKPOT | TOP FLASH / LOW ON | |
| DOOR CLOSE WITH JACKPOT | TOP FLASH / LOW ON | |
| TILT WITH JACKPOT | FLASH BOTH SYNCHRONOUSLY | |
| DOOR OPEN WITH TILT AND JACKPOT | ALL ON | |
| DOOR CLOSE WITH TILT AND JACKPOT | ALL ON | |
| NEXT PLAY (OR NEXT PLAY TIMEOUT) | LOW OFF | |
| NEXT PLAY TIMER (MINUTES) | 2 (0=DISABLE) | |
| <p>FLASH SYNC: FLASH LAMPS SYNCHRONOUSLY FLASH ALT : FLASH LAMPS ALTERNATELY TILT : ERROR EXCEPT DOOR OPEN JACKPOT : JACKPOT / CANCEL CREDIT LOCK UP NEXT PLAY : NEXT PLAY AFTER DOOR CLOSE NEXT PLAY TIMER : WAIT NEXT PLAY AFTER DOOR CLOSE</p> | | |
| <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px 15px; text-align: center;">EXIT</div> <div style="border: 1px solid black; padding: 5px 15px; text-align: center;">DEFAULT</div> </div> | | |
| MOVE CURSOR WITH LINE 9 OR LINE 20 - PRESS LINE 25 TO CHANGE POSITION MENU WITH LINE 1 OR LINE 5 - PRESS COLLECT TO SELECT / ACTIVATE | | |

Tower lamps operation is set to default values after RAM Clear Set-up. This setting can be changed by this screen. Pressing DEFAULT button also set tower lamp operation to factory default setting values.

| | |
|---|--|
| TOWER LIGHT TYPE | Tower Light type (2 tier / 3 tier) |
| FLASH RATE | Tower lamp flash rate in seconds |
| CHANGE ON | Change On |
| CHANGE OFF | Change Off |
| DOOR OPEN | Any door open. |
| DOOR CLOSE (OR RESET TILT/JP AFTER DOOR CLOSE) | <ul style="list-style-type: none"> A door closure (and there is no other door opened). Reset tilt after a door closure (and there is no other door opened). Reset jackpot after a door closure (and there is no other door opened). |
| TILT | Error condition except any door open. |
| TILT AFTER DOOR CLOSE | Tilt condition after a door closure (and there is no other door opened). |
| RESET TILT (NOT AFTER DOOR CLOSE) | Reset tilt condition not after a door closure (and there is no other door opened). |
| DOOR OPEN WITH TILT | A door open during a tilt condition. |

| | |
|---|---|
| DOOR CLOSE WITH TILT | A door close during a tilt condition. |
| JACKPOT | Jackpot / cancel credit lockup. |
| JACKPOT AFTER MCLOSE | Jackpot / cancel credit lockup occurred after a door closure (and there is no other door opened). |
| RESET JACKPOT (NOT AFTER DOOR CLOSE) | Reset hand pay / celebration win lockup not after a door closure (and there is no other door opened).. |
| DOOR OPEN WITH JACKPOT | A door opened during hand pay / celebration win lockup. |
| DOOR CLOSE WITH JACKPOT | A door closed during hand pay / celebration win lockup. |
| TILT WITH JACKPOT | Tilt condition occurred during hand pay / celebration win lockup. |
| DOOR OPEN WITH TILT AND JACKPOT | A door opened during tilt condition and hand pay / celebration win lockup. |
| DOOR CLOSE WITH TILT AND JACKPOT | A door closed (and there is no other door opened) during tilt condition and hand pay / celebration win lockup. |
| NEXT PLAY OR NEXT PLAY TIMEOUT | <ul style="list-style-type: none">• Next play is done by a player.• Next play timeout. |
| NEXT PLAY TIMER (MINUTES) | Next Play Timer expiry will trigger this tower lamp operation. Normally turn off the tower lamp which is turned on of flashed by main door close. |

2.7.5 TOUCH SCREEN

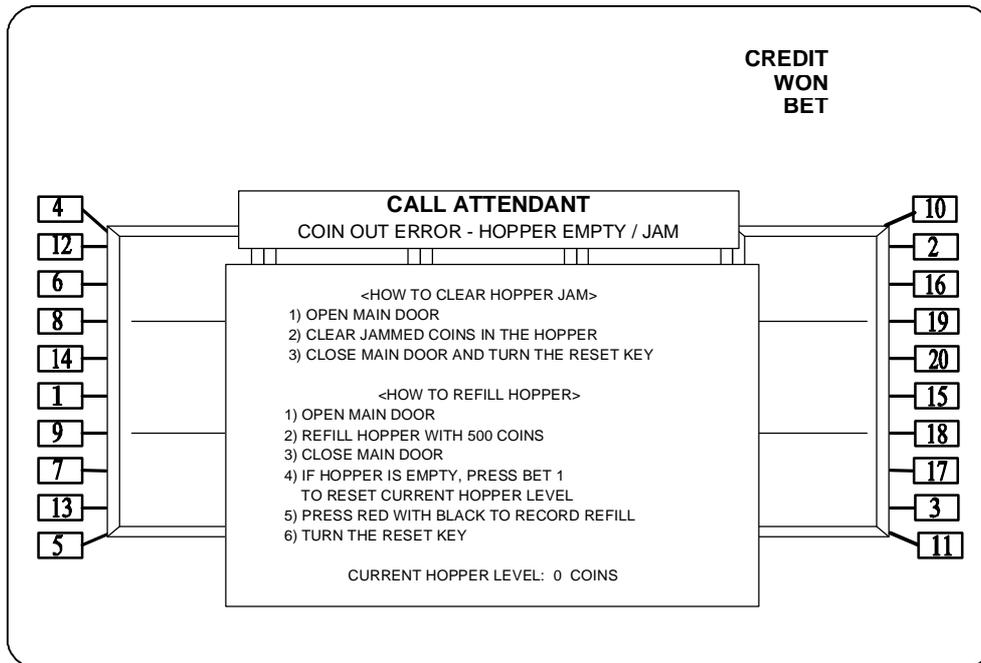


This screen is to calibrate the touch screen.

3 ATTENDANT PROCEDURES

3.1 HOPPER REFILL

A Hopper Refill can only be performed after the Hopper is emptied during a collect sequence. In this case the message 'CALL ATTENDANT - COIN OUT ERROR - HOPPER EMPTY / JAM' will be displayed.



The following is a refill procedure:

Step 1. Open the main door and verify the hopper is empty.

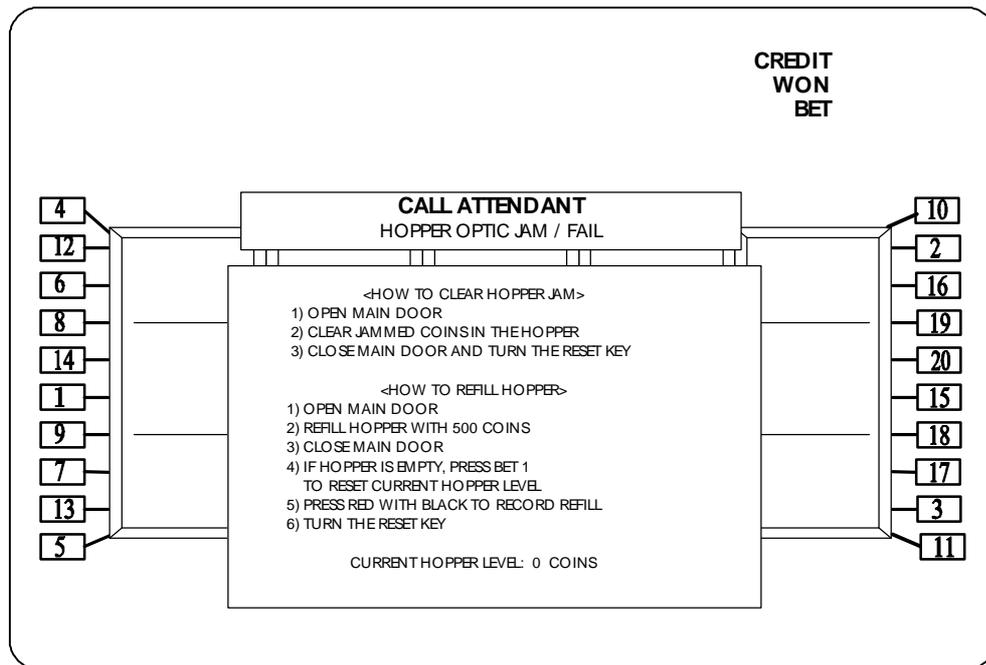
Step 2. Insert number of coins as displayed on the screen hopper (500 coins in this example) into the hopper and then close the main door.

Step 3. Press RED & BLACK simultaneously to record the refill. "XXX COINS ADDED TO HOPPER" will appear on the display and "CURRENT HOPPER LEVEL: XXX COINS" will also increment.

Step 4. Clear the error message with the Reset Key.

A refill can also be recorded in Audit mode.

3.2 HOPPER JAM CLEAR

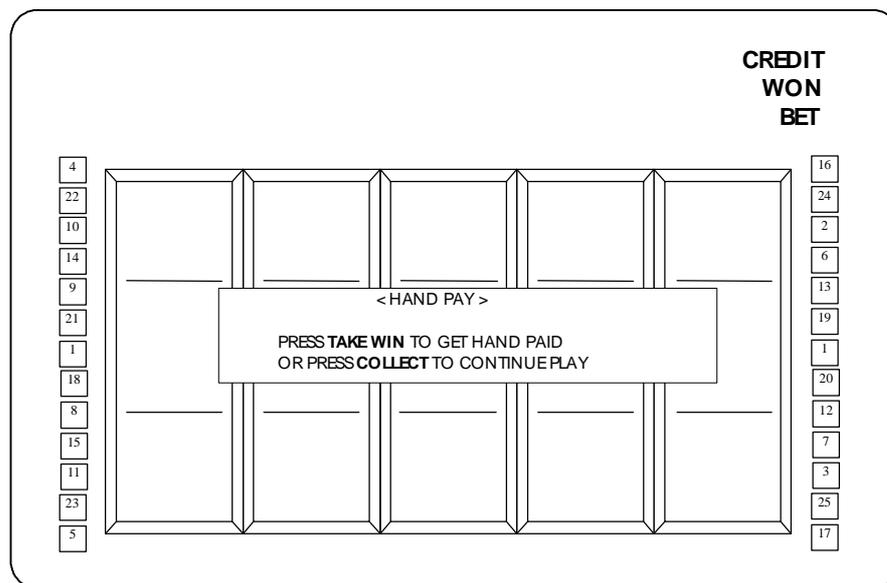


If, during a hopper payout, coins are not detected exiting the hopper, message CALL ATTENDANT - COIN OUT ERROR - HOPPER JAM / EMPTY message is displayed.

- 1) Open the door and check the hopper for a jammed coin.
- 2) Clear the jammed coin, then close the door.
- 3) Clear the error message with the Reset Key.

3.3 CANCEL CREDIT

If a player chooses to collect credits less than the cancel credit level as set in the ram clear setup configuration, the hopper will pay coins out. Any credits less than the token / coin denomination (residual credits) will remain on the credit meter after hopper pay out and requires hand pay. Any credits greater than or equal to the cancel credit level requires hand pay (cancel credits) and if the player press collect button, then the player is given the option to get hand pay by pressing the take win button or continue play by pressing the collect button again as the following screen:



If the player presses the take win button, then the machine will lock up and the lockup status will be cleared by activating the Reset Key Switch clockwise. Activating the Reset Key Switch clockwise will clear the hand pay lock up, and clear the credit meter. The Credit Meter will become zero and the machine will return to the normal operation. After reset the hand pay lock up with the reset key, the 'CANCEL R XXX.XX' message will be displayed on the bottom of the screen.

4 SPARE PARTS LIST

GLOSSARY

| | |
|---------------------------|--|
| Emax | |
| Emax International | Refers to the following Jurisdictions: |
| All | Available for all models |

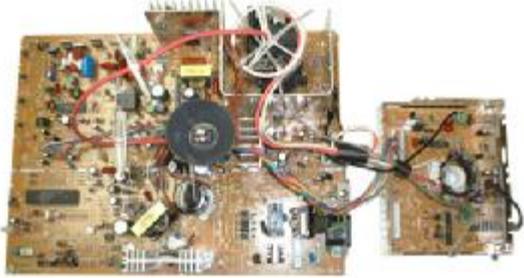
| PART NO. | JURISDICTION | MODEL | DESCRIPTION |
|---------------------|--------------|-------|---|
| Power Supply | | | |
| 602631200 | All | EMAX |  <p>Switching Regulator 5V</p> |
| 602631400 | All | EMAX |  <p>Switching Regulator 12V</p> |

| | | | |
|--|--|--------------------|---|
| <p>602631600</p> | <p>All</p> | <p>EMAX</p> |  <p>Switching Regulator 24V</p> |
| <p>GPT G3 Note Validator</p> | | | |
| <p>ARGUS G3 ZA</p> | <p>SAF</p> | <p>EMAX</p> |  <p>GPT G3 HEAD</p> |
| <p>GPT G3 Note Stacker</p> | | | |
| <p>6MA0061 4MA0064</p> | <p>Standard (AUD) Universal (NZ)</p> | <p>EMAX</p> |  |

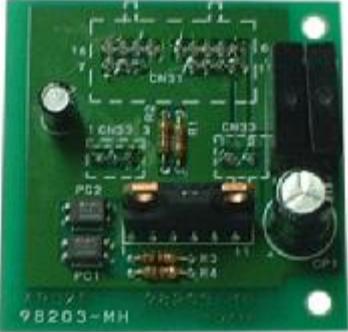
| GPT G3 Enclosure | | | |
|----------------------------|----------------------|------|---|
| 6MA0060 | For Standard Stacker | EMAX |  <p>GPT G3 Enclosure</p> |
| GPT Bill Entry | | | |
| 2C0006400 | ALL | EMAX |  <p>GPT Bill Entry Bezel</p> |
| GPT Bill Entry Tray | | | |
| 2C0006600 | ALL | EMAX |  <p>GPT Bill Entry Tray</p> |

| Condor Plus CP133 coin validator | | | |
|---|------|------|--|
| CN133 PLUS ZA | RAND | EMAX |  <p>Condor Plus CP133 coin validator</p> |
| Diverter Solenoid | | | |
| 600434200 | ALL | EMAX |  <p>Diverter Solenoid</p> |
| Solenoid Spring | | | |
| 0A0120400 | ALL | EMAX |  <p>Solenoid Spring</p> |

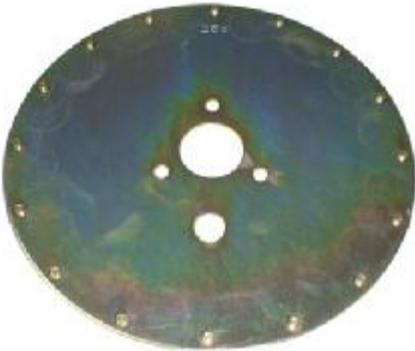
| Motherboard DPX 80 | | | |
|---------------------------|-----|------|--|
| CC0012A00 | All | EMAX |  <p>Motherboard DPX 80</p> |
| I/O PCB | | | |
| CC0014A00 | ALL | EMAX |  <p>I/O PCB</p> |
| Backplane PCB | | | |
| CC0010A00 | All | EMAX |  <p>Backplane PCB</p> |
| Memory PCB | | | |

| | | | |
|--------------------|-----|------|--|
| CC0018A00 | ALL | EMAX |  <p>Memory PCB</p> |
| Monitor PCB | | | |
| NA | ALL | EMAX |  <p>Monitor PCB</p> |

| Monitor | | | |
|--------------------------------|-----|------|---|
| 602817000 | All | EMAX |  <p>Monitor</p> |
| Touch Screen Sensor | | | |
| 600228000 | ALL | EMAX |  <p>Touch Screen Sensor</p> |
| Touch Screen Controller | | | |
| 609912400 | ALL | EMAX |  <p>Touch Screen Controller</p> |

| GM Hopper | | | |
|--------------------------|--------|------|---|
| CC0350B00 | AU \$1 | EMAX |  <p>GM Hopper</p> |
| CC0350C00 | NZ \$2 | | |
| Hopper PCB | | | |
| C05311A10 | ALL | EMAX |  <p>Hopper PCB</p> |
| Photo Interrupter | | | |
| 60029200 | ALL | EMAX |  <p>Photo Interrupter</p> |

| Coin Guide Plate | | | |
|-------------------------|-----|------|--|
| 0C0307000 | All | EMAX |  <p>Coin Guide Plate</p> |
| Coin Wiper | | | |
| 0P0302600 | ALL | EMAX |  <p>Coin Wiper</p> |
| Knife | | | |
| 0P8020600 | | EMAX |  <p>Knife</p> |

| Pin Wheel | | | |
|--------------------|-----|------|--|
| 0P4301000 | | EMAX |  <p>Pin Wheel</p> |
| Shelf Wheel | | | |
| 0P0305000 | | EMAX |  <p>Shelf Wheel</p> |
| Agitator | | | |
| 2P0302200 | ALL | EMAX |  <p>Agitator</p> |

| DC Motor | | | |
|-------------------------|-----|------|--|
| 600848000 | All | EMAX |  <p>DC Motor</p> |
| Speaker | | | |
| 601127200 | ALL | EMAX |  <p>Speaker</p> |
| Speaker (Woofer) | | | |
| 601129000 | ALL | EMAX |  <p>Speaker (Woofer)</p> |

| Counter Assembly | | | |
|---------------------------------------|-----|------|---|
| 601622000 | All | EMAX |  Counter Assembly |
| Counter Cover Detection Switch | | | |
| 600135000 | ALL | EMAX |  Counter Cover Detection Switch |
| Fan | | | |
| 609949200 | ALL | EMAX |  Fan |

| Rocker Switch | | | |
|----------------------------|-----|------|--|
| 600343000 | All | EMAX |  <p>Rocker Switch</p> |
| Safety Door Switch | | | |
| 600121000 | ALL | EMAX |  <p>Safety Door Switch</p> |
| FL DC Inverter Unit | | | |
| 60241600 | ALL | EMAX |  <p>FL DC Inverter Unit</p> |

| FL Socket Unit | | | |
|-----------------------|-----|------|---|
| 602373200 | All | EMAX |  FL Socket Unit |
| Mini Fuse 0.5A | | | |
| 601575000 | ALL | EMAX |  Mini Fuse 0.5A |
| Mini Fuse 6.3A | | | |
| 601574400 | ALL | EMAX |  Mini Fuse 6.3A |

| LED Lamp | | | |
|-------------------------------|--------|------|--|
| 4MA0067 | Blue | EMAX |  <p>Led Lamp</p> |
| 4MA0066 | Green | | |
| 4MA0069 | Purple | | |
| 4MA0068 | White | | |
| 4MA0065 | Yellow | | |
| Reset/Audit Key Switch | | | |
| 601367000 | ALL | EMAX |  <p>Reset/Audit Key Switch</p> |
| Power Save Key Switch | | | |
| 601356400 | ALL | EMAX |  <p>Power Save Key Switch</p> |

| Photo Sensor Door | | | |
|------------------------------|-----|------|---|
| 600290500 | All | EMAX |  Photo Sensor Door |
| Photo Sensor Cabinet | | | |
| 600290600 | ALL | EMAX |  Photo Sensor Cabinet |
| Photo Sensor Cash Box | | | |
| 600205001 | ALL | EMAX |  Photo Sensor Cashbox |

5 TROUBLE SHOOTING

| Machine Error Messages | | Possible Solution |
|------------------------|--------------------------|---|
| Door Errors | Main Door Open | <ul style="list-style-type: none"> Faulty door optics either emitter or receiver Faulty main door switch Check harness for damage |
| | Logic Security Cage Open | <ul style="list-style-type: none"> Check Cherry switch on front of logic cage |
| | Belly Door Open | <ul style="list-style-type: none"> Check belly door switch Check harness for damage |
| | Cash Box Door Open | <ul style="list-style-type: none"> Faulty cash box door switch Check harness for damage |
| | Stacker Door Open | <ul style="list-style-type: none"> Check stacker door switches Check harness for damage |
| System Errors | Self Audit Error | <ul style="list-style-type: none"> Perform full RAM clear procedure as per section 1.8 |
| | Ram Error – Memory Board | <ul style="list-style-type: none"> Check Battery on memory board Perform RAM Clear procedure as per section 1.8 |
| | Ram Error – Main Board | <ul style="list-style-type: none"> Check DRAM memory (if DRAM memory test has passed during BIOS power up test, then DRAM is o.k) Perform RAM Clear procedure as per section 1.8 Replace Main Board |
| | ROM Error | <ul style="list-style-type: none"> Perform full RAM clear procedure as per section 1.8 Replace game EPROM's |
| | Battery Fail | <ul style="list-style-type: none"> Check Batteries and jumper switches on I/O board Check Batteries jumper switches on Motherboard Replace the battery Replace Motherboard Turn the key to RESET |
| | Over Temperature | <ul style="list-style-type: none"> Check fan inside logic unit Check 12 volts on power supply Replace fan Replace power supply Turn the key to RESET |
| | Sound System Error | <ul style="list-style-type: none"> Perform full ram clear as per section 1.8 Replace logic unit Turn the key to RESET |

| | | |
|-----------------------|-----------------------------------|--|
| Hopper Errors | Hopper Optic Jam / Fail | <ul style="list-style-type: none"> • Remove and reinsert hopper • Check 24 volts from power supply • Check harness for damage and pins • Replace hopper • Turn the key to RESET |
| | Hopper Disconnected | <ul style="list-style-type: none"> • Check harness • Check loop back wire in the connector of the hopper • Turn the key to RESET |
| | Hopper Overpay – Excess Payout | <ul style="list-style-type: none"> • Check and clean optics on hopper • Check if hopper brake works by using diagnostics screen in the case of GM hopper • Turn the key to RESET |
| | Hopper Runaway – Excess Payout | |
| Coin Validator Errors | Coin Out Error – Hopper Empty/Jam | <ul style="list-style-type: none"> • Remove any jammed coins in hopper • Fill hopper with coins • Turn the key to RESET |
| | Diverter Fault | <ul style="list-style-type: none"> • Check diverter using diagnostics screen. • Check 24 volts from power supply • Check harness for damage • Replace Diverter • Turn the key to RESET |
| | Coin In Jam | <ul style="list-style-type: none"> • Remove any jammed coins in the coin validator • Clean optics in coin validator • Check 24 volts from power supply • Replace coin validator • Turn the key to RESET |
| | Coin In yo-yo | <ul style="list-style-type: none"> • Clean optics in coin validator • Turn the key to RESET |
| Hard Meter Errors | Hard Meter Failure/Disconnected | <ul style="list-style-type: none"> • One or more of the eight meters faulty • Check 24 volts on power supply • Replace meter bank • Replace power supply • Replace motherboard • Check harness for damage • Turn the key to RESET |
| | Hard Meter Security Cage Open | <ul style="list-style-type: none"> • Check switch on hard meter cage • Check harness for damage • Replace switch |

| | | |
|----------------------------|------------------------------|---|
| Note Acceptor Errors | Note Acceptor Error | <ul style="list-style-type: none"> Any electrical/mechanical error on the note acceptor causes Note Acceptor Error (for example, opening note acceptor head when note acceptor enabled and working). Clean and Calibrate head Faulty note Acceptor Check Connection from logic unit to Head Check harness for damage Perform full RAM clear procedure as per section 1.8 Turn the key to RESET |
| | Stacker Removed | <ul style="list-style-type: none"> Remove and reinsert stacker Check stacker switch Check harness for damage |
| | Note Acceptor Disconnected | <ul style="list-style-type: none"> Clean and calibrate head Check connection from logic unit to head Check harness for damage Perform full RAM clear procedure as per section 1.8 Communication port (COM1) on the mother board may be damaged – try to change mother board Replace logic unit |
| | Note Acceptor Jam | <ul style="list-style-type: none"> Remove jammed notes in the head Clean and calibrate head Turn the key to RESET |
| | Stacker Jam | <ul style="list-style-type: none"> GPT® note acceptor always reports ‘Stacker Jam’ with ‘Stacker Full’ when the stacker is full so check if stacker is full. Remove jammed notes in the stacker If the notes are full in the stacker, then clear notes Turn the key to RESET |
| | Stacker Full | <ul style="list-style-type: none"> Remove stacker box and clear notes |
| Host Comms Error | Host Communication Link Down | <ul style="list-style-type: none"> Check connection from the logic unit to the connector inside the top box. Communication port (COM2) on the mother board may be damaged – try to change mother board Check player interface if the player interface really sends polling signal to the gaming machine. |
| Touch screen | Touch screen does not work | <ul style="list-style-type: none"> Check connection from the logic unit to the touch screen connector. Communication port (COM3) on the mother board may be damaged – try to change mother board Change touch screen. |

6 APPENDIX

6.1 Jean 19" Monitor Manual

6.2 GPT Argus Note Acceptor Manual