

RED HOT BINGO
WORKSHOP MANUAL
V1.1

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### **Electrical safety warnings**

#### IMPORTANT NOTES - READ THOROUGHLY BEFORE ATTEMPTING ANY MAINTENANCE



#### WARNING!!



A potentially lethal mains input supply voltage of 230 volts @ 50Hz is present within this machine. Under no circumstances should any form of installation, adjustment, maintenance or repair be attempted by any other than suitably qualified or adequately instructed and supervised personnel.

#### **ELECTRICAL CONNECTION:**



For safety reasons this machine must be earthed. There is a risk of electric shock if the power cable used to power this machine is not correctly connected and has not got a sound earth connection.

The mains lead used to power this machine should not exceed 2 metres in length. The wires in the mains lead are coloured in accordance with the following code and polarity:

Green and yellow: earth

Brown: live Blue: neutral

To ensure safe operation this machine must be connected to the mains electrical supply using an approved IEC power cord. Each cord must have an IEC approved connector fitted and an approved 13-amp plug, fused with no greater than a 13 amp fuse rating. Should it be necessary to replace any components it is imperative that they are replaced with identical component values as supplied by Storm originally. Correct polarity must be observed at all times.

#### Earth bond & insulation

This product is subjected to insulation and earth bond tests before despatch. These tests should be repeated periodically or whenever any safety critical parts or connections are replaced, or reconnected. A notice label is attached in each product to provide a means of recording further test results.

THIS MACHINE IS DESIGNED FOR INTERNAL OPERATION ONLY.

## **Declaration of conformity**

### EC DECLARATION OF CONFORMITY

CE

### According to the following EC Directives

2002/95/EC: Restriction of the use of certain Hazardous Substances (RoHS)

## Dual Screen Cabinet Model: GS-UR0119, GS-UR0122

Do not contain intentionally added heavy metals such as Lead, Mercury, Cadmium, Hexavalent Chromium, PBB and PBDE above the maximum concentrations and with exceptions are embodied are embodied in the Annex of the RoHS EU Directive 2002/95/EC.

	Maximum Value
Cadmium (Cd)	100ppm
Lead (Pd)	1000ppm
Mercury (Hg)	1000ppm
Hexavalent Chrominum (Cr6)	1000ppm
Polybrominated diphenyl ethers (PBDE)	1000ppm
Polybrominated biphenyls (PBB's)	1000ppm

#### Installation

It is our policy to ensure that all products are designed, manufactured and tested to comply with all statutory safety requirements. Should you find that your product fails in any area we would request that you immediately contact Customer Services, together with all the relevant details about your findings.

Warning: under no circumstances should any form of installation, adjustment, maintenance or repair be attempted by any other than suitably qualified or adequately instructed and supervised personnel.

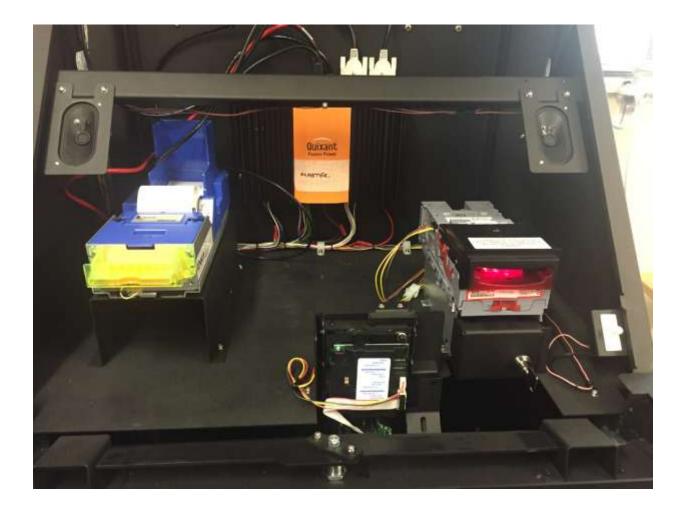
Prior to commencing any installation or adjustment we strongly recommend that the contents of this manual are referred to and that all machine warning labels are adhered to.

Under no circumstances should any plugs or connectors be removed or reconnected whilst the power supply is switched on. Any damage caused as a result of ignoring this warning will invalidate machine warranty.

## **Installation guidelines**

- Always install on a level surface to promote healthy coin acceptance.
- Avoid locations with excessive low/high humidity and temperature.
- Never overload plug connections in the same outlet.
- Allow suitable ventilation around machine to avoid overheating.
- Check that the mains input voltage supply is correct and the 'earth' connection is secure.
- Before applying power for the first time after delivery we strongly recommend that all
  electrical connectors and assemblies are inspected, are firmly in place, secured and correctly
  orientated.
- Never disconnect electrical connectors from any assembly without first switching the power off to the ALL machines connected.

# **Cabinet Components**



## The top section features the following components.

- Quixant QXI 200 pc
- NRI G13 Coin mech cc talk
- NV9 Note validator and stacker cc talk
- Epic 950 USB printer
- Speakers x2
- Door switch

# **Cabinet Components Continued**



## The lower section features the following components

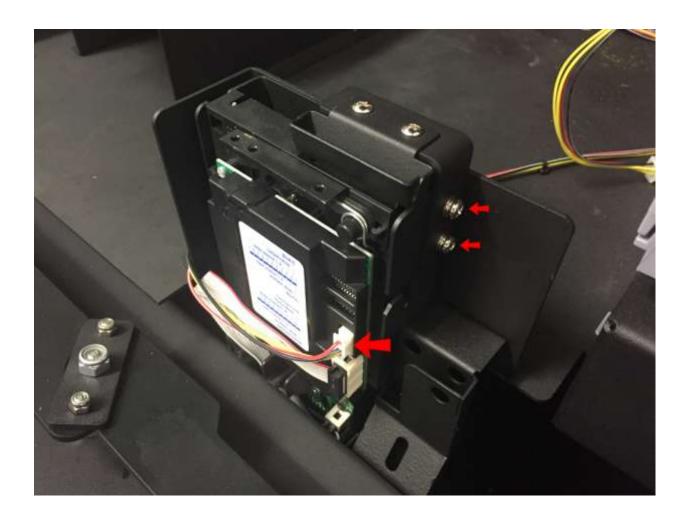
- Cash box
- 12v power supply
- 12v power supply
- Internal Power switch
- Door switch

## Coin mechanism removal.

To gain access to the coin mechanism in the event of a coin jam it is easiest to remove the complete coin mechanism

PLEASE ENSURE THE CABINET POWER IS TURNED OFF BEFORE DISCONNECTING THE COIN MECH.

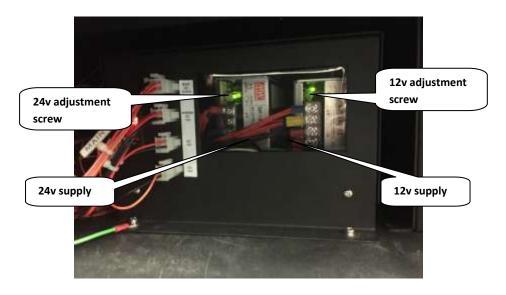
After disconnecting the mains power the mech be removed by firstly removing the 4 pin connector to the mech, then remove the two screws marked with the red arrows below, then remove the coin entry bracket, and then gently lift the coin mech upwards and outwards from its holder.



## Auxiliary power supplies.

The cabinet is fitted with two auxiliary power supplies to provide 12v (12.5A max output) and 24v (6.3A max output), these are located in the lower section of the cabinet.

Both supplies have an adjustment screw to fine tune the output voltage, these may need to be adjusted if the 12v or 24v supply output is low.



The power supplies feed the pc system and also supply the all the system peripherals listed below.

Quixant QXi200 PC	12v
NRI G13 Coin mech Coin mech and 3 way sorter	12v
NV9 Note acceptor9 and stacker	12v
Cabinet fan	12v
RGB lighting controller	12v
Epic 950 printer	24v

# **Quixant QXi200 PC connections.**

Top connector plate as viewed in machine.



J1 con	nector 16 way	25	2/-	J6 PWR c	connector 6 way	50	32
pin 1		pin 9		pin 1	Blk - gnd	pin 4	Red +12 v DC
pin 2	Blk/Wht - GND	pin 10	Blk/Wht - GND	pin 2	Blk - gnd	pin 5	Red +12 v DC
pin 3		pin 11		pin 3	Blk - gnd	pin 6	Blk - gnd
pin 4		pin 12	Blk/Wht - GND				
pin 5	Yel – Cctalk data	pin 13	Blk/Wht - GND	Speaker	connector 4 way	5. 5.	
pin 6		pin 14		pin 1	Brn/Red - right +	pin 3	Brn - right -
pin 7		pin 15		pin 2	Vio/red - left +	pin 4	Vio - left -
pin 8		pin 16					
J3 con	nector 20 way			J4 conne	ector 22 way		
pin 1	Blk -GND	pin 11	Blk -GND	pin 1	Blk –GND	pin 12	Blk -GND
pin 2		pin 12		pin 2		pin 13	
pin 3	Vio – mid door sw	pin 13		pin 3	3:	pin 14	
pin 4	Wht – service sw	pin 14	Pnk – top door sw	pin 4		pin 15	
pin 5	Blu – bottom door sw	pin 15	Grn/blk - sw0	pin 5	<i>I</i> .	pin 16	
pin 6	Grn/brn – sw1	pin 16	Grn/red – sw2	pin 6	o o	pin 17	
pin 7	Grn/org - sw3	pin 17		pin 7	Blk –GND	pin 18	Blk -GND
pin 8		pin 18		pin 8	Wht/blk – lamp 0	pin 19	Wht/brn-lamp 1
pin 9		pin 19		pin 9	Wht/red – lamp 2	pin 20	Wht/org - lamp 3
pin 10	Blk -GND	pin 20	Blk –GND	pin 10		pin 21	
				pin 11	41 27	pin 22	
				100 miles		porture and a contract	4

All connectors are Molex Microfit 43045-nn00 (where nn is the number of pins)

## **Button panel details**

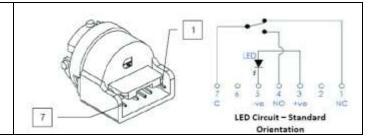
Pin layout and wiring circuit

The cabinet is fitted with four Gamesman system Z switch assemblies.

Only pins 3, 4, 5 & 7 are used.

Pin 4 connects to J3 connector (switch inputs)

Pin 5 connects to J4 connector (lamp drives)



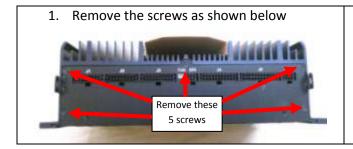
## **Quixant QXi200 PC connections**



- A. USB Cable to printer.
- B. USB cable for the touch screen controller.
- C. Cat 5 cross over cable to link machines
- **D.** Cat 5 cable to internet connection
- **E.** DVI lead for the upper screen.
- F. DVI lead for the lower screen.

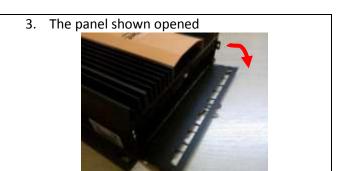
## Quixant QXi200 pc -Hard Disc Drive (HDD) Replacement

To replace the HDD 1<sup>st</sup> remove all connectors on the pc shown on pages 10 & 11, then undo the four 7mm nuts that secure the pc to the cabinet, one the pc has been removed follow the steps outlined below.

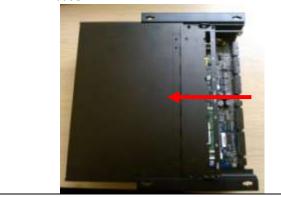


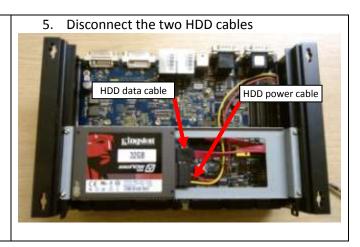


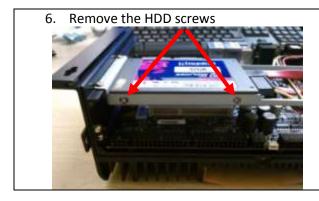
2. Pull the tabs indicated to release the hinged panel

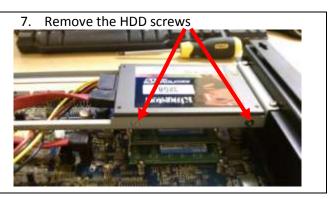


4. Turn the pc over and slide the panel off the base







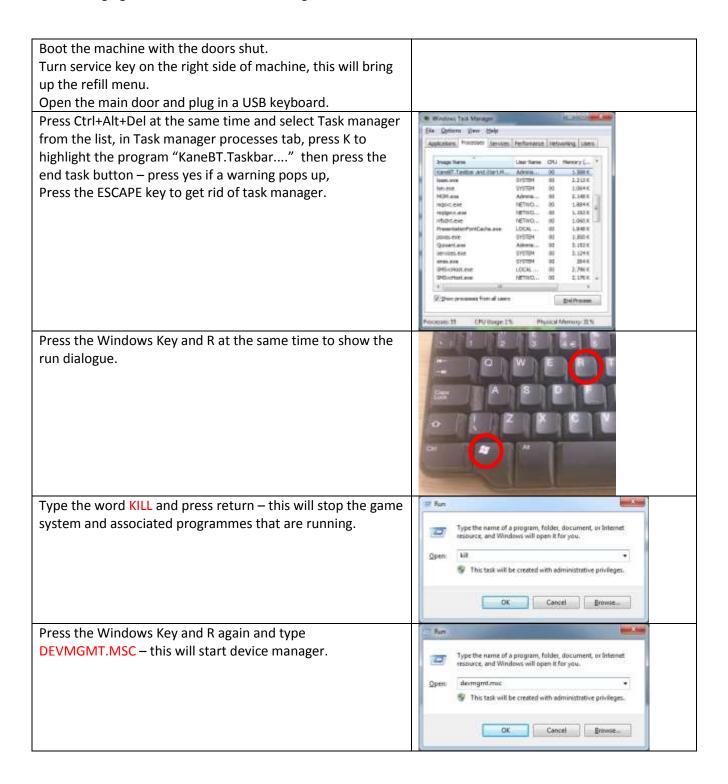


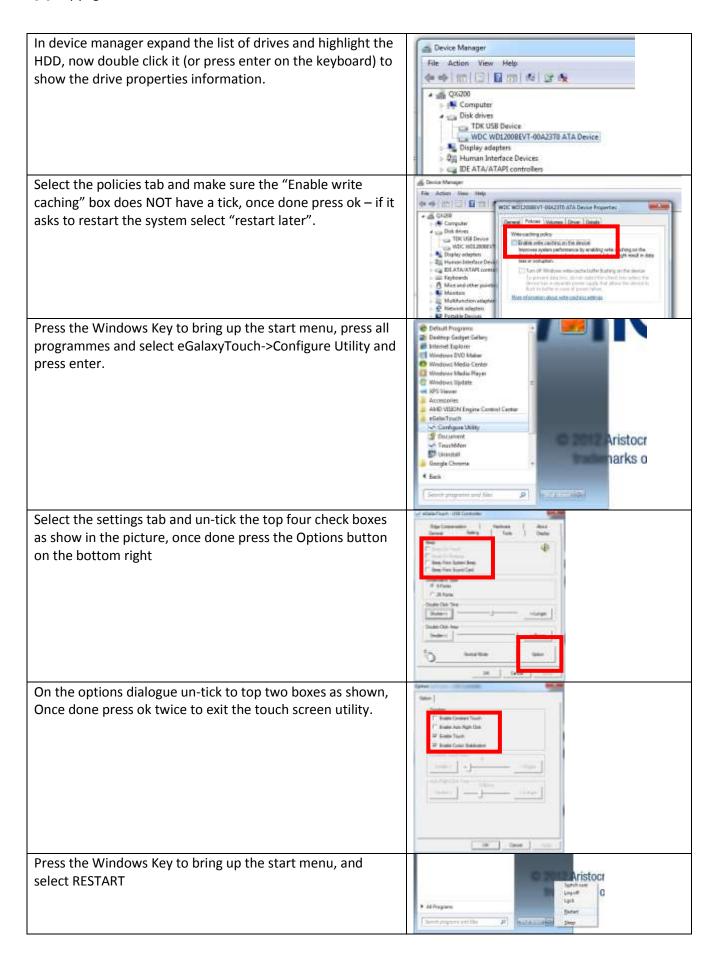
Replace the HDD with the new one and reverse the steps above.

Please see next page for setup instructions.

## Quixant QXi200 pc - setting up PC after HDD replacement

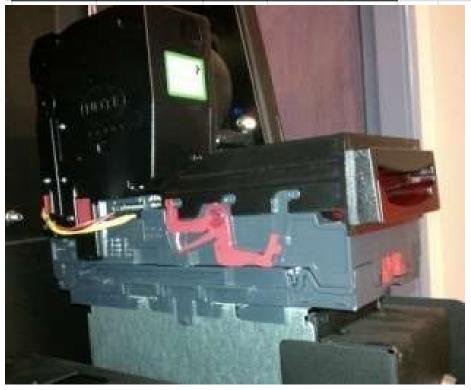
After changing the HDD there are a few thing that need to be checked. Please follow the list below





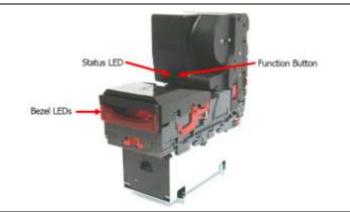
# NV series Note acceptor connection and G13 Mech connection

NV11 con	nector 16way			Coin m	ech connector 4 way
pin 1	Yel – Cctalk	pin 9		pin 1	Red/Wht - 12v
pin 2	3	pin 10	4:	pin 2	d:
pin 3		pin 11		pin 3	Blk/Wht - GND
pin 4	10	pin 12		pin 4	Yel – Cctalk
pin 5	Ye - Cctalk	pin 13			
pin 6		pin 14			
pin 7		pin 15	Red/Wht - 12v	•	
pin 8		pin 16	Blk/Wht - GND		



NV series Note acceptor.

#### Overview



#### REMOVAL OF NOTE FLOAT UNIT.

Disengage latches on each side.

Remove the note float by lifting it upwards.



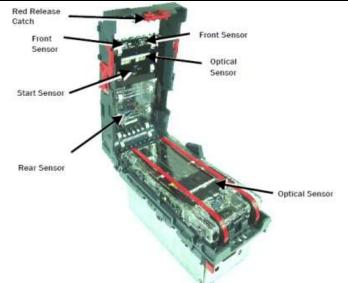
### OPEN THE NOTE FLOAT UNIT.

Push the door release buttons on both sides of the note float. The door can then be opened. When closing the Note Float door, ensure that it is fully clicked into position.



#### OPENING THE NV11.

Separate the Note Float Unit from the Note Validator Unit by lifting the red latch on each side of the Note Float Unit. Slide the red release catch on the end of the Note Validator unit to the left, to open the note path. The note path and drive unit are now exposed for cleaning or removal of jammed notes.



### Clearing a note jam

On occasion, it may be necessary to manually remove notes from the Note Float unit. There are two methods depending on the situation.

If a single note has failed to transport either to or from the Note Float unit the Note Float status LED will flash constantly at a frequency of 1Hz.

To remove the note:

- 1. Open the cover of the Note Float Unit by pressing the red buttons on each side
- 2. The note should now be visible and can be removed.
- 3. Close the Note Float cover ensuring it clicks securely in place.
- 4. Press the note float configuration button to acknowledge the note has been cleared.

To remove all notes from the Note Float if fitted:

This is done following the steps below. A M5 Hex key is required to perform this operation. It should only be performed as a last resort.

- 1. Remove power
- 2. Separate the Note Float Unit from the Note Validator Unit by lifting the red latch on each side of the Note Float Unit
- 3. Open the cover of the Note Float Unit by pressing the red button on each side
- 4. Turn the manual drive in the direction of the arrow (anti-clockwise) with a M5 Hex key until all notes are removed
- 5. Close the Note Float cover ensuring it clicks securely in place.
- 6. Attached the Note Float unit to the Note Validator unit and secure in place with the red tabs on each side
- 7. Re apply power

CAUTION: Do not over wind the mechanism when manually removing all notes. This will cause permanent damage to the unit which will have to be returned to ITL or authorised service centre.

## **Note acceptor - Status LED Error flash codes:**

The following table details the cause for the status LED on the front flashing:

Flashes	Meaning	Corrective Action
Constant	Transport error in Note Float	Remove power and separate Note Float from validator.
1Hz		Open rear access door and remove jammed note from Note
		Float. Securely close the door, reseat and apply power. Press
		configuration button once to return to service.
2	Software Error	Download dataset/firmware file.
3	Calibration Error	Remove and replace power from device. If regularly (or
		constantly) reporting calibration error, return to service
		centre for repair.
4	Diverter Error	Check for jammed notes preventing the diverter returning to
		the home position.
5	Motor Timeout	Check for jammed notes preventing the Note Float tape
		from moving

## **Bezel LED Error flash codes:**

If the validator bezel flashes in a sequence of long and short flashes, the following table details the fault reported:

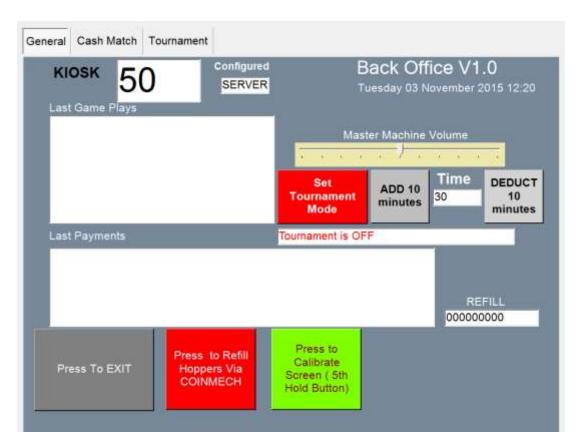
Long	Short	Meaning	Corrective Action
Flashes	Flashes		
1	1	Note path open	Ensure front catch is secure and no debris in path.
	2	Note path Jam	Open the Note Validator note path and check for jammed notes of debris covering a sensor
	3	Unit not initialised	Unit must be returned to service centre for re-initialising
2	2	Cash box jam	Check that the cash box note plate is free to move and the stacker mechanism is in the home position
3	1	Firmware Checksum	Download dataset/firmware file
	2	Interface selected not available in firmware	Download correct dataset/firmware file
	3	EEPROM Checksum	Download dataset/firmware file
	4	Dataset Checksum	Download dataset/firmware file
	5	Incompatible Validator & Note Float Firmware	Check validator firmware is compatible with Note Float firmware
	6	Incompatible Note	Use an older firmware or sent to service centre for
		Float Firmware and Hardware	upgrade.
4	1	PSU too Low	Check the power supply is 12V DC 3.5A
	2	PSU too High	Check the power supply is no more than 13.2V

# **Troubleshooting and diagnostics**

Symptom	Possible Cause	Corrective Action
	Incorrect currency file programmed	Check that the required dataset is programmed into the validator using the validator manager software.
All notes are	Notes are not included in the currency file	Check that the required note denomination and issue is included in the currency file using the validator manager software.
rejected (Bezel LED's are on)	Notes are inhibited by the host machine	Ensure the machine is ready to accept notes. If a coin hopper is in the machine, ensure it is not empty. Ensure the maximum allowed credit on the host machine has not been exceeded.
	Bill path obstructed	Check for necessary clearance for note ejection after acceptance.
Notes are not taken in (no	No Power	Ensure the correct specification of power is applied to the validator.
bezel LED's)	Incorrect interface is programmed	The NV validator can only be used in eSSP mode. Check the host machine is configured to use eSSP
Notes accepted but	Power supply outside specification	Ensure correct supply and sufficient current. Also check for necessary clearance for note ejection after acceptance.
no credit given	Rear note detect sensor obscured	Ensure no foreign objects are obstructing the sensors.
Acceptor runs slowly or intermittently	Foreign objects in the note path	Clean the note path
	Incorrect voltage level of supply	Ensure correct supply and sufficient current
	Damage in the unit	Replace necessary components
Motor continues to run	Foreign object or note is stuck in the note path	Ensure the note path is clear and reset the validator. It may also be necessary to reset the host machine.

#### **GAINING ACCESS TO REFILL BACK OFFICE**

With the main doors closed turn the key switch on right side of the machine (under button panel)



This screen displays useful information, such as the last 5 game plays on the kiosk, as well as the name of the game played, it also displays the price of play for the game, and any amount won. These values are in Pence. The screen will also display the last 5 payouts of the machine including the time and date of the payouts.

#### THE REFILL KEY ACCESS TO THE BACK OFFICE IS LIMITED TO THE FOLLOWING:

**<u>Volume control</u>** Simply slide the controller to increase or decrease the machine volume.

<u>Screen Calibrate</u> Press the green button on screen to calibrate the touch screen, then touch the targets that appear on the screen, this will recalibrate the screen if it is reported to be faulty.

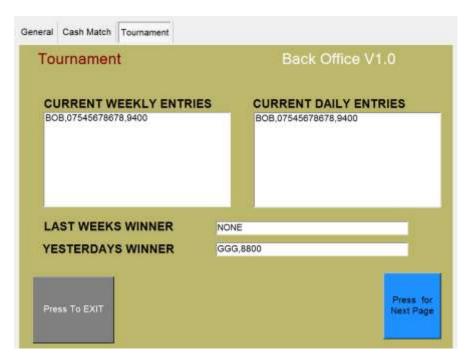
<u>Set Tournament Mode</u> Press the red Set Tournament Mode button to turn on the tournament mode. The time to run in tournament mode can be adjusted by pressing the Add 10 minutes / Deduct 10 minutes buttons

#### Continued on next page:

<u>Cash Match</u> Select the cash match tab at the top of the screen and then select to turn on and off the cash match feature and how much you wish to cash match for the player.



<u>Tournament Leader Board</u> To view the tournament leader board page select the Tournament tab at the top of the page



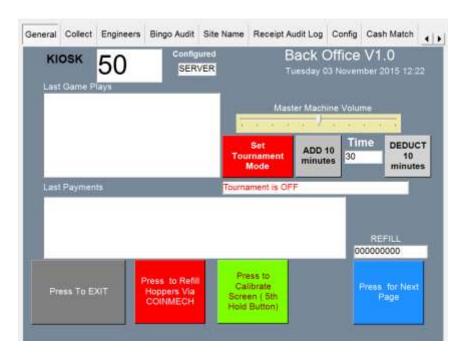
To exit the bar managers back office, simply press the grey EXIT button.

## Gaining access to the full back office - Engineer/Collector

Open the top door of the machine, this will cause the screen to turn red and show the alarm message, the alarm will also sound. Turn the key switch on the right side of the machine under the button panel

### Enter password 000071

The back office screen will then load as shown.



The first back office screen displays useful information, such as the last 5 game plays on the kiosk. As well as the name of the game played, it also displays the price of play for that game, and any amount won. These values are in Pence. The screen will also display the last 5 cash payouts of the machine including the time and date of the payouts.

#### ON THE FIRST SCREEN THERE ARE FOUR LARGE BUTTONS AT THE BOTTOM OF THE SCREEN:

**PRESS TO EXIT** – EXIT back to the game.

**REFILL THE HOPPER Via COIN MECH** - This is not used with RED HOT BINGO ticket payout machine.

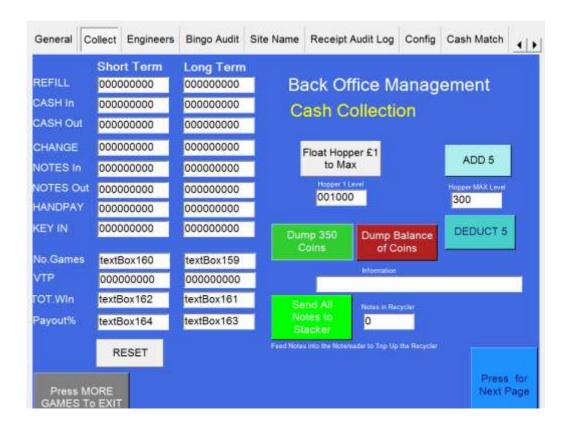
**CALIBRATE THE TOUCH SCREEN** - When the calibration option is selected, the screen must be calibrated by touching various targets on the screen

PRESS FOR NEXT PAGE – Press this to move onto the next page

You will also find a **Master Machine Volume** slider to enable the engineer to alter the volume.

AT THE TOP OF THIS FIRST BACK OFFICE SCREEN, THERE ARE SEVEN 'TAB' PAGES. THIS ALLOWS YOU TO GO STRAIGHT TO THE PAGE IN THE BACK OFFICE YOU REQUIRE.

#### Cash Collector screen - 'COLLECT'



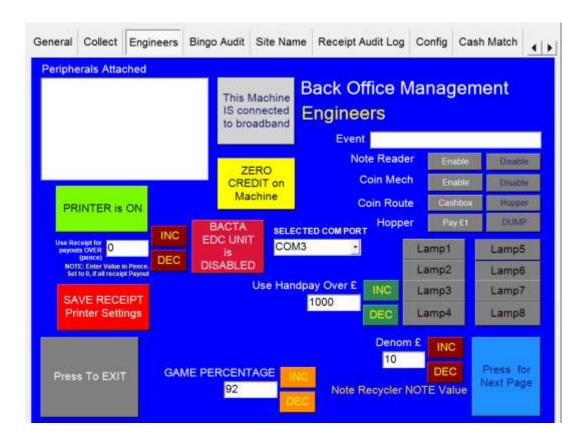
The Cash Collector page has on screen meters of activity on the kiosk.

Note\* The hopper is not used with RED HOT BINGO ticket payout machines so please disregard any hopper levels, all coins will route to the cashbox in the lower section of the cabinet.

The Short term meters on the left can be reset by the collector/engineer.

The Long term meters cannot be reset other than by the manufacturer.

## **Engineers Screen - "Engineers"**



The Engineers screen displays a list of peripherals attached and working on the machine. The screen should display that it has found both a working coin mechanism and note reader. If it does not, then an error will be displayed in the peripherals attached window.

You can also feed both coins and notes through the peripherals on this screen WITHOUT affecting any of the meters.

It is possible also, to test lamps, switches, coin routing and activity will be shown in the EVENT window.

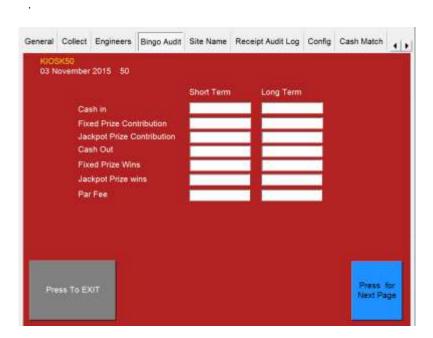
#### **Game Percentage**

RTP percentage can be set by selecting the INC/DEC buttons

PLEASE ENSURE THAT IF 2 OR MORE RED HOT BINGO MACHINES ARE LINKED TOGETHER ON SITE THAT THE RTP IS THE SAME ON BOTH MACHINES TO ENSURE EQUAL CHANCE GAME.

## **Bingo Audit Screen**

The screen shows a breakdown of all bingo activity for audit purposes.



### **Site Name**

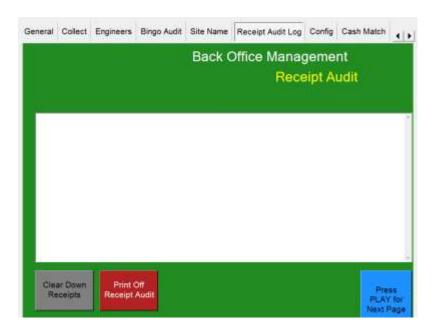


The site name screen is used to change the name to be printed on tickets.

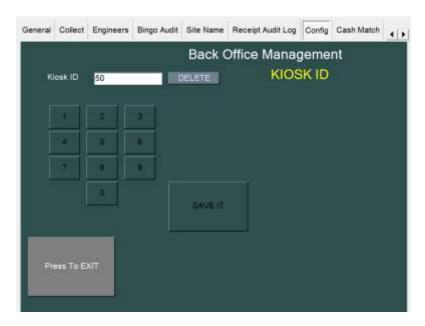
## **Receipt Audit Log Screen**

The receipt audit screen shows information of all receipts since the last time the audit was cleared out. A summary can be printed for a Receipt Audit by pressing the red button.

Using this printout, the receipts collected from payouts can then be verified against audit.



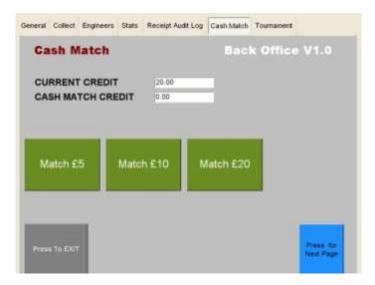
## **Config**



The config screen is used to change the Kiosk ID number.

#### Cash Match.

This machine is equipped with a 'Cash Match' feature that allows the operator to 'cash match' or double the players credits. Funds in the cash match meter cannot be collected by the player. All wins from cash match are displayed in the credit meter which can then be collected by the player.



#### Tournament.

This tab displays the recent activity of any tournament game played on the machine.



For any further technical assistance please call
Storm Games on 01902 374124
Open Monday to Friday 8am to 4.30 pm