

The Mob

(MPU4, set 1)

MANUAL

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Operating and Safety Instructions

Product Safety

Every effort has been made to ensure this product has been designed with safety in mind.

Components used within this product are used within the manufacturers stated specification limits. Under no circumstances should replacement parts other than those specified or supplied by the manufacturer be used within this machine.

Electrical Safety

This machine must not be used unless it is correctly earthed and should be connected to a mains supply of 220v/240v at a frequency of 50Hz.

All machines leaving the manufacturer are subject to electrical safety tests. These tests consist of earth-bond and insulation tests. These tests should be carried out on a regular basis, or when a critical part is replaced.

Only suitably qualified or adequately instructed person should carry out work on the internal parts of this machine.

Connection.

A three-pin plug fitted with a fuse rated at 3 Amps should be fitted to the supply cable. The supply cable should not exceed a length of 2 metres.

Parts list

The Mob is designed to fit the Barcrest Genesis base.

If the kit is to be fitted on a machine then additional parts may be required depending on the base machine. Please see the criteria stated in CONVERSION INSTRUCTIONS on page 6.

On receipt of your kit please check the content against the following list, and notify our **Spares Department** *immediately* of any shortages on 01222 377402.

Part	Part number
Top Glass	AT 1008
Reel Glass	AL 1008
Reel Band 1	AL 1008 AR 1027
Reel Band 2	AR 1027 AR 1028
Reel Band 3 Reel band 4	AR 1029
	AR 1030
Button Legends x 11	AB 1005
£5 Cash disclaimer	AD 1132
£15 cash disclaimer	AD 1133
5p £15 stake/prize decal	AD 1134
5p £5 stake /prize decal	AD 1135
10p £15 stake /prize decal	AD 1136
10p £5 stake/prize decal	AD 1137
20p £15 stake/prize decal	AD 1138
20p £5 stake/prize decal	AD 1139
25p £15 stake/prize decal	AD 1140
30p £15 stake/prize decal	AD 1141
20p £5+rep chance award decal	AD 1142
20/25/30p £15 award decal	AD 1143
5p/10p £15 award decal	AD 1144
5/10p £5 award decal	AD 1145
3 x RPB assembly complete	
Top Vacuum Form loomed	
Reel glass vacuum form loomed	
Switch matrix loom	
Game EPROM x 1	
Sound EPROM's x 3	
Game manual	
Switch settings sticker	
Hopper Procedure sticker	

The Mob Game Information

General

The Mob is a 4-reel AWP machine for the UK single site / arcade market.

Game Description

Wins are achieved by lining up matching symbols on all 3 reels with the help of holds and nudges. All wins may be gambled up to the jackpot and can be exchanged for the main feature. Lining up 3 cars on the winline will award the main feature.

Once the feature has been achieved the reels will respin and nudges, cash and features will be added. The player may collect cash, nudge or feature columns at any time or press the start button to spin the feature reel and move around the board to try to improve his win. Extra cash, nudges and features will be added when the player lands on an appropriate square. In addition he may also land on a Hired Hand or Weapon square which will award an extra weapon or hired hand. Matching a Hired hand with his preferred Weapon will award the player a bonus feature. Landing on the getaway car will allow the player to use his skill to stop on a position on the board. If the player lands on the "Meet the Mob" squares he may be awarded a bonus or be thrown off the board. If the player lands on the "Lightning Raid" square he will move around the board collecting prizes as he goes.

On the 5p and 10p versions low wins will award the "Bonus Arrow" feature. The player will be awarded 1, 2 or 3 arrows, which will spin around on the bonus arrows, stopping when he presses the start button. If any light stops on the £1 arrow, the player will be awarded £1, otherwise he will lose.

Features

Features on "The Mob" are as follows: -

WIN SPINNER

The reels will spin to and pay a random winning combination.

NEAREST WIN

The reels will step to and pay the nearest winning combination.

CASH CLIMB The player will be awarded a cherry win with 3 climb chances to improve his

win. If successful he will be awarded a further 3 chances.

SKILL STEPPA The player must use his skill to stop the feature reel on a high number. This

number of steps will then be transferred at random to the cash, nudge and feature columns. The player can then select the column offering the best win.

NUDGE PICKER The reels will spin to random positions offering a random number of nudges

witch can be collected or rejected to try for a higher win.

CASH LINK Random awards will be lit, the player then has 3 climb chances to link up

unlit fruits. The highest link position will be awarded.

SKILL CLIMB The player will be awarded a cherry win and can climb up the awards by

completing the name "SKILL".

BANKROLL The reels will spin continuously allowing the player to skilfully stop them on

a high award.

WIN SERIES The reels will spin to a winning combination and the prize will be paid, the

player then has a possible chance of spinning to another win. This will continue

for a random number of wins.

SUPER JACKPOT This will award the jackpot with a possible repeat into the next game.

Bonus features: -

BIG MONEY The player will be awarded a big win.

BIG REPEATER

The player will be awarded a big win with a possible repeat into the next game.

The player must skilfully stop the feature reel on a high number, this number

will then be transferred to the cash column, paying the top prize lit.

WIN STREAK The reels will spin to a winning combination and the prize will be paid, the

player then has apossible chance of spinning to another win. This will continue

for a random number of wins.

JACKPOT This will award the jackpot.

SUPER JACKPOT This will award the jackpot with a possible repeat into the next game.

Meet the Mob features-:

Repeat Chance The player will be awarded a possible chance of being awarded another feature

in the next game.

Extra Life The player cannot lose whilst this lamp is lit. Hired Hand The player will be awarded a hired hand. Kiss Of Death The player will be thrown out of the game. Weapon The player will be awarded an extra weapon.

Informer If the player is found to be an informer he will be thrown out of the game.

Lightning Raid The player will whiz around the board collecting prizes as he goes.

Conversion instructions.

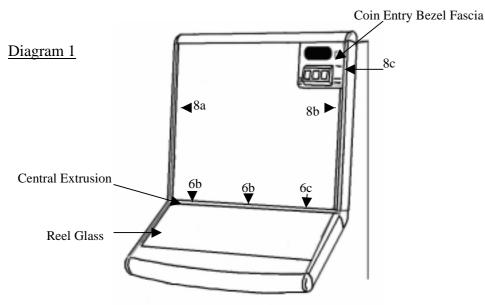
First the base machine should reach certain criteria.

These criteria are

- 1) The machine must have a pre Low Voltage Directive power supply and hopper driver board fitted.
- 2) The machine must have four reels in the machine, three main reels and one feature (4th) reel.
- 3) An alphanumerical display must be fitted.
- 4) Eight large buttons on the button panel.

Prior to commencement ensure that the machine to be converted is in good working order.

- 1) Disconnect and remove the reel unit and the mounting bracket.
- 2) Disconnect the lamp looms attached to the lamp interface board and auxiliary lamp board.
- 3) Remove the button switches from the button housings.
- 4) Remove the alphanumeric display.
- 5) Remove the coin entry bezel by removing the four 7mm nuts that are mounted on the rear of the fascia.
- **6**) Remove the three screws (6a, 6b, 6c diag.1) from the central extrusion. Carefully slide the extrusion out towards you.
- 7) Once the central extrusion has been removed the reel glass should now simply be lifted out of the frame assembly.
- 8) Remove the three 7mm nuts which are connected to the frame assembly (8a, 8b, 8c diag.1). Gently push the lower half of the top glass outwards and then carefully slide the glass out from the bezel fascia. Once the glass is clear from the bezel fascia simply lift away from the frame assembly.
- 9) Before replacing the new glass into the framework affix the vacuum forming to the glass ensuring that it is aligned correctly. Replace glasses into the frame and secure back into the machine the same way they came out.
- **10**) Remove the lens caps from the buttons and discard the existing button legends. Replace with legends provided. See figure 1 in the Technical Data section of the manual.
- 11) Reconnect button switches to the button housings.
- **12**) Reconnect the lamp looms to the interface board and auxiliary board. See figure 4 in the Technical Data section of the manual.
- 13) The three circular buttons are then fitted into the top glass. Connect the feature switches
- **15**) Fit the Sound EPROM's and the game EPROM into the program card and adjust selector links (if necessary). See figure 3.



Setting-up

No connector or component must be removed or reconnected whilst the power is turned on.

Check that all connectors, assemblies, and wiring harness are correctly engaged inside the machine.

Set the DIL switch options on the MPU board to the desired position and fit the relevant decals. Run the machine through the test procedure.

Award Structure

Located on the right hand side of the reel glass are stake and prize, and award decals that change accordingly.

For the correct decal layout relevant to the stake and prize please refer to the table below.

5/10p £5 20p £5 5/10p£15 20/25/30 £15 £5+repeat £5 £15 £15 £4 £5 £10 £8 £3 £5 £4 £8 £2 £5 £2 £5 £4 £1 £4 £1 £3 £3 £2 £2

£1

£1

Switch Settings

Switch bank 1

Switch	OFF ON		
1	Ram clear toggle	Ram Clear toggle	
2	Enable coin alarm	Coin Alarm Inhibit	
3	Wins banked	Direct Payout	
4	Not Used		
5	Not Used		
6	Not Used		
7	Show float with door open	Show float level with door closed	
8	Multi-coin play	Single coin play	

Switch bank 2

Switch	Function
1	Stake & Prize selection (see overleaf)
2	Stake & Prize selection (see overleaf)
3	Stake & Prize selection (see overleaf)
4	Not used
5	Payout percentage selection (see overleaf)
6	Payout percentage selection (see overleaf)
7	Payout percentage selection (see overleaf)
8	Payout percentage selection (see overleaf)

Stake, Prize and Percentage Settings.

The stake and prize can be selected via the DIL switches.

NO STAKE & PRIZE KEY SHOULD BE FITTED

Switch 1	Switch 2	Switch 3	Outcome
OFF	OFF	OFF	5p £5
ON	OFF	OFF	5p £15
OFF	ON	OFF	10p £5
ON	ON	OFF	10p £15
OFF	OFF	ON	20p £5
ON	OFF	ON	20P £15
OFF	ON	ON	25P £15
ON	ON	ON	30P £15

The percentage can be selected via the DIL switches. If a percentage key is fitted this will override the DIL switch selection. If all the switches are off then the percentage defaults to 78%.

Switch 5	Switch 6	Switch 7	Switch 8	%
ON	OFF	OFF	OFF	70
OFF	ON	OFF	OFF	72
ON	ON	OFF	OFF	74
OFF	OFF	ON	OFF	76
ON	OFF	ON	OFF	78
OFF	ON	ON	OFF	80
ON	ON	ON	OFF	82
OFF	OFF	OFF	ON	84
ON	OFF	OFF	ON	86
OFF	ON	OFF	ON	88
ON	ON	OFF	ON	90
OFF	OFF	ON	ON	92
ON	OFF	ON	ON	94
OFF	ON	ON	ON	96
ON	ON	ON	ON	98

Demonstration mode

A demonstration mode is provided which enables the game to be played or tested without having the need to insert coins and without any actual payout of prizes.

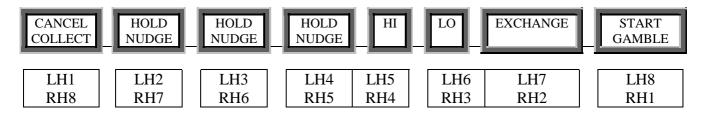
To enter the demonstration mode, open the top door and press the test button once. To achieve £5 worth of credits press the Start button. By holding down the Cancel button and any of the Hold buttons the reels can be stepped down. The reel can also be stepped up by holding down the Cancel and HI buttons, to induce reel wins or to play the feature.

If the MPU does not recognise any activity after approximately 20 seconds the machine enters the attract mode. Credits can then be achieved by pressing the Start button again.

Test Routine.

To enter the test routine the top door must be open and the test-button pressed twice.

Navigation.



To step to the next test press the RH1 button. To step to a previous test press the RH3 button. The relevant test will be displayed on the alphanumerical display. To activate the desired test the RH2 button is then pressed. Press the RH1 once to exit that test.

Test Number	Test procedure
1.1	Coin in
1.2	Coin out
2.1	Reels 1
3.2	Lamps
4.1	Inputs
4.2	DILS
5.1	Alphanumeric
6.1	Meters
7.1	Communications
8.2	Volume
9.1	Keys
A.1	Alarm log

Test 1.1 – Coin In.

All coins accepted by the machine will display the relevant coin value on the display.

To inhibit the coins the LH1 button is pressed. To return to coin acceptance then the LH1 button is pressed again.

The LH2 button is used to toggle coin diversion ON, or OFF. Coin diversion will only affect £1coins when 'COIN IN DIV' is displayed

Test 1.2 – Coin out.

Button LH1 is used to payout coins. Press this button once at the time and the hopper will pay out one coin at a time and the alphanumerical display will increment with each coin being paid out. Once the coin has been paid out the hopper motor will stop.

If the LH1 button is held down for 3 seconds then all coins in the hopper will be paid out. This will initialise the hopper float level. The display will read 'FLOAT UPDATED' the '1PND HOP=***' Where *** is the amount.

To activate the hopper again the test must then be exited and then re-entered.

<u>Test 2.1– Reels 1.</u>

On entry to this test reels 1 to 4 will spin to the SYNC position and light all the lamps behind the reel bands. The message SYNC POSITION will be displayed. At this point the first reel symbols will be on the win line. Reels 1,2,3 will show MDM jackpot and reel 4 will show 12.

The relevant HOLD/NUDGE button can be pressed to step the reels down.

Pressing the CANCEL button will nudge the feature reel.

The symbol on the last reel pressed will be displayed.

If the CANCEL button is held for 3 seconds or more any win/feature available will be indicated.

Test 3.2 – Lamp test

On entering the test the display will read 3.2 FLASH, and all the lamps will flash.

Pressing the LH1 button will toggle the step lamp test.

TheRH2 and RH3 buttons will respectively step through the lamps forwards and backwards.

Test 4.1 – Inputs

When any input changes a sound will be generated and the relevant information is displayed. To exit this test, hold down RH1 for longer than two seconds.

The following table indicates lamps that will light upon various switches being made.

Input Definition	Lamp Definition
Test switch	Man in Car
Refill key	Nudge Now
Hopper Top up switch	1 Nudge
Hopper Dump switch	2 Nudge

Test 4.2 – DIL Switches.

On entry to this test the status of the DIL switches are displayed. When a number 1 is displayed then the switch is ON. If the number is 0 then the switch is OFF.

<u>Test 5.1 – Alphanumerical display.</u>

On pressing the RH2 button each segment of the alphanumeric will light from left to right. Once all the segments have been tested they will then be tested simultaneously.

Test 6.1 – Meters.

Pressing the RH1 button initiates the test. Each meter will pulse 5 times. The refill key is not required for this test.

Test 7.1 – Comms.

If machine recognises that there is a Datapak connected to the RS232 port the machine will display PASS. If there is no Datapak fitted then FAIL is displayed.

Test 8.2 – Volume.

This test will allow adjustment of the electronic volume control and is identical to the volume adjustment via the refill key with the doors closed.

The display will show the volume in a percentage.

The LH1 and LH2 buttons will be used to adjust the volume down and up respectively.

The RH2 and RH3 buttons will allow the sample number to be increased or decreased respectively.

It is recommended that the manual volume control is set to maximum (fully clockwise) to allow the software to control the volume correctly.

Test 9.1 - Keys

The display will show whether the percentage and the stake and prize is currently controlled off the DIL switches or a key. The display will then change to display the current aiming percentage, the current stake and prize and then the actual percentage.

Test A.1- Alarm log.

On pressing the RH1 button the alarm log number will be shown on the left-hand side of the display, the alarm code on the right.

By pressing the LH4 button and the LH2 buttons you can increment or decrement the log number respectively.

By holding the RH2 button for five seconds the alarm log can be cleared.

Alarm codes

Code	Fault	Causes (in order of probability)
0.1	Ram clear/ checksum fail	Change of program, faulty battery, M.P.U
0.2	Mode change	Stake, prize or percentage changed
0.3	Manual ram clear	Dil switch 1 toggled
1.1	£1 coin input	Coin jam. Coin mech., coin loom,
1.2	50p coin input	As above
1.3	20p coin input	As above
1.4	10p coin input	As above
1.6	5p coin input	As above
1.5	Token input	As above
1.9	Anti-strim alarm	Coin mech., coin loom, M.P.U
2.1	Reel 1 fault	Set-up, opto, loom, motor, M.P.U
2.2	Reel 2 fault	As above
2.3	Reel 3 fault	As above
2.4	Reel 4 fault	As above
6.0	Meter error	More than 1 meter disconnected
6.1	Meter 1 fault	Meter1 faulty
6.2	Meter 2	<i>د</i> د
6.3	Meter 3	"
6.4	Meter 4	"
6.5	Meter 5	٠٠
7.1	E.D.C failure	Dataport unit not fitted, M.P.U, no –12v
9.1	Incorrect switch settings	Adjust switch settings, faulty MPU
9.2 - 9.8	Faulty processor	Faulty MPU, programme card
HOPPER ERRO	PR .	Jam, Hopper not connected, faulty
		opto,No18.5vAC,PSU

Technical Data

Machine Description

Cabinet

Cabinet name: Genesis
Manufacturer: Barcrest
Technology: MPU4
Height: 1680mm
Width: 680mm
Depth: 650mm

Weight: 120Kg (approx.)

Coin Handling

Routing

Depending on which coin validator and loom is fitted in the machine the routing plug configuration is different. The pins are identified with the notch of the routing plug facing downward and the wire links facing you.

The sorter over-ride connector pins are identified with the wire facing towards you.



Coin Validator Type	Way	Routing	Sorter Over-ride
Me126 Parallel	18	Pin 3 to Pin 11 of AUX 2 of	NONE
		MPU. Links 5+6, 7+14, 8+13,	
		15+18 (or 15+11)	
Me126 CashFlow Binary	22	Pin1 to Pin 2 of AUX 2 Links	Pin 8 White/Brown to Pin 11
		11+13, 14+20	of AUX2
Coin Controls C435 Binary	18	Pin 1 to Pin 3 of AUX 2, Links	Pin 1 Red to Pin 2 of AUX2
		7+8, 7+13, 15+18	Pin 9 white/brown to Pin 11
			of AUX2
			Pin 10 Brown to Pin 1 of
			AUX 2

Hopper

This machine is a round pound payout machine fitted with a Coin Controls Compact £1 hopper. When the machine pays out, the coin is passed through an opto sensor, breaking the beam. With each break of the beam the machine recognises that a coin has been paid out.

Hopper Level

The float level of the machine is dependant on the price of play see table below:

Price of Play	Hopper float level	
5p	£75	
10p	£100	
20,25,30p	£125	

Manually refilling the hopper

- 1) With the machine on, insert and turn the refill key.
- 2) Open the top door and place the relevant amount into the £1 hopper.
- 3) Press the HOPPER TOP UP button, a beep will be heard and the alphanumerical display will show "HOPPER FULL".
- 4) Remove the refill key and close the top door. The hopper is now correctly topped up.

Refilling via the coin validator.

- 1) With the machine on and both doors closed, insert and turn the refill key.
- 2) The alphanumerical display will show "R = ***" (where *** is the amount refilled).
- 3) Put the £1 coins through the coin validator to the required float level. The minimum float level should be no less than £30. Once the hopper is full the £1 coins will be locked out.

Hopper dump procedure.

- 1) Open the outer and inner cash box doors.
- 2) Insert and turn the refill key.
- 3) Press the HOPPER DUMP button, a beep will be heard and the alphanumerical will show "HOPPER DUMP" and the START button will be flashing.
- 4) Pressing the START button will payout all the £1 coins in the hopper.
- 5) If there is LESS than the float level in the hopper the display will read "SHORT BY ***" (where the *** is the amount).
- 6) If there is MORE than the float level in the hopper, then the float level will paid out and the display will read "DEFLOAT EXCESS".
- 7) Pressing the START button again will continue to pay out the excess in the hopper. EXCESS = *** will be displayed.

To check the float level in all cases open one of the doors, insert and turn the refill key. The display will read "F=***" where *** is the amount in £1 coins.

Meters

2 x 12v DC 1 x 48v AC or 1x12v DC for refill

Software Meters (electronic)

In all there are 50 meters, but there are useful meters that have been incorporated for the operators benefit. These are Cash in, Cash out, Games played, and Cash refilled. For the desired meter refer to the table below.

To access the software meters open the top door and press the test button once. The machine will go into demonstration mode. Next turn the refill key to the on position.

The alphanumerical display will show meter number 0. To display the next meter press the third **Hold/Nudge** button, to display the previous meter press the first **Hold** button.

To clear the meters, press and hold the **Start** button. A countdown sequence will be initiated and can be aborted by releasing the **Start** button. Once the countdown reaches zero the meters will be cleared.

Description	Divide by
	Description

Note that the software will be cleared down every time the RAM has been reset and the percentage or price of play has been altered.

Reel s

Motor alignment

Put the machine into reel test (test 2.1). This will spin the reels showing the first symbols on the reel band in the win line.

A pointer moulded into the reel drum should line up with a pointer on the side of the frame with the exception of the fourth reel. Any miss-alignment can be adjusted by slackening off the motor mounting screws and rotating the motor.

Reel Band Placement

Place the notched reel band on to the notch on the reel drum and rotate. When fully rotated remove the double-sided tape on the bottom edge of the reel band and affix to the top edge of the reel band.

Reel band Layout

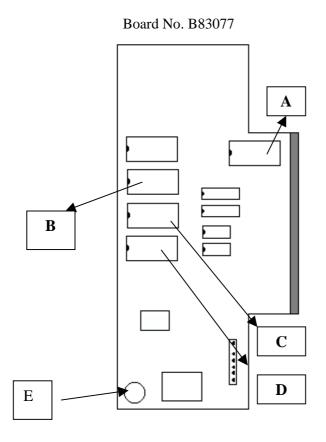
Reel 1	Reel 2	Reel 3	Reel 4
MDM Jackpot Cherry Lemon	MDM Jackpot Cherry Lemon	MDM Jackpot Cherry Lemon	12 4 11

Button Layout

Figure 1 8-way button panel



Figure 3 Program Card and EPROM location



A = Game EPROM

B = Sound EPROM 3

C = Sound EPROM 2

D = Sound EPROM 1

E = Manual volume control

Connections

Figure 4 Lamp interface board.

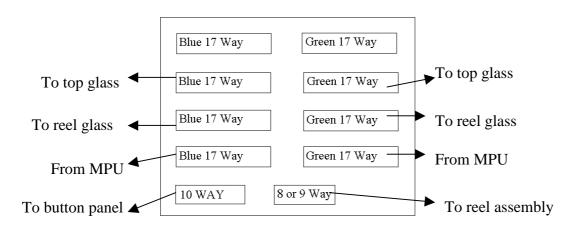
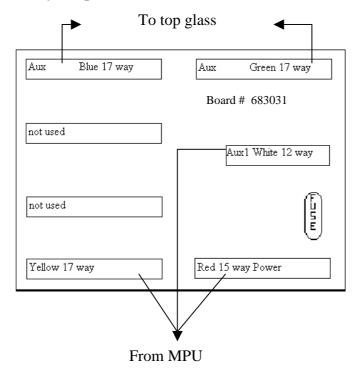


Figure 5 Auxiliary lamp board.



<u>Lamp Allocation</u>

Lamp	Blue Pin	Green Pin	Position
0	9	1	Reel 1 top
1		2	Reel 2 top
2		3	Reel 3 Top
3		4	-
4		5	Lose
5		6	Cherry 1 award
6		8	Cherry 2 award decal
8	8	1	Reel 1 middle
9		2	Reel 2 middle
10		3	Reel 3 middle
11		4	Feature 2 any 3 cars
12		5	Nudge Now
13		6	Lemon 1 award
14		8	Lemon 2 award decal
15		9	
16	7	1	Reel 3 bottom
17		2	Reel 3 bottom
18		3	Reel 3 bottom
19		4	Feature 1 award any 3 cars
20		5	1 nudge
21		6	Plum 1 award
22		8	Plum 2 award decal
23		9	Awards below £1 give
24	5	0	Cancel button
25		1	Hold Nudge 1 button
26		2	Hold Nudge 2 button
27		3	MDM Winner
28		4	2 nudges
29		5	Orange 1 award
30		8	Orange 2 award decal
31		9	Arrow 2 secret
32	4	0	Hold Nudge 3 button
33		1	HI button
34		2	LO button
35		3	Jackpot 1 stake & prize decal
36		4	3 nudges
37		5	Grape 1 award
38		6	Grape 2 award decal
39		8	Arrow 3 secret
40	3	0	Exchange button
41		1	Start/Gamble button
43		2	Lamp not utilised
42		3	Take cash button
44		5	4 nudges
45		6	Bell 1 award
46		7	Bell 2 award decal
47		8	Arrow 1 secret
48	2	1	Take feature button
49		2	Take nudge button
50		3	_
51		4	Jackpot 3 stake & prize decal
52		5	
53		6	Melon 1 award
54		8	Melon 1 award decal
55		9	Arrow 4 secret

<u>Lamp allocation</u>

Lamp	Blue pin	Green pin	Position
56	1	1	
57		2	
59		4	Jackpot 4 stake & prize decal
60		5	
61		6	Jackpot 1 award
62		8	Jackpot 2 award decal
63	15	9	Arrow 5 £1 secret
64	17	10	Weapon
65		11	Gun TNT
66 67		12 13	Razor
68		14	Rope
69		15	Poison
70		16	knife
71		17	Extra Life secret
72	16	10	Entra Erro source
73		11	Super jackpot
74		12	Jackpot
75		13	Win streak
76		14	Step
77		15	Repeat
78		16	Big money
79		17	
80	15	10	Hired Hand heading
81		11	Bugsy
82		12	Barney
83		13	Scar face
84		14	Ronnie
85		15	Paulie
86 87		16 17	Mack
88	14	10	Meet the Mob Kiss of death secret
89	14	10	Repeat chance secret
90		12	Hired Hand secret
91		13	Lightning Raid secret
92		14	Informer secret
93		15	Weapon secret
94		16	Getaway Car bottom left
95		17	Meet the Mob right
96	13	10	Getaway Car top right
97		11	Nudge+2 board right
98		12	Cash + 2 board right
99		13	Weapon box board right
100		14	Feature +2 board right
101		15	Nudge +2 right
102		16	Cash +1 right
103	10	17	Feature +2 right
104	12	10	7 nudge trail
105		11 12	6 nudge trail
106 107		12	5 nudge trail
107		13 14	4 nudge trail 2 nudge trail
108		15	2 nudge trail 3 nudge trail
110		16	1 nudge trail
111		17	Win spinner
		- /	···

Lamp allocation

Lamp	Blue pin	Green pin	Position
112	11	10	10 nudge trail
113		11	8 nudge trail
114		12	Super jackpot
115		13	Bell
116		14	Grape
117		15	Orange
118		16	Cherry
119		17	Cash climb
120	10	10	99 nudge trail
121		11	16 nudge trail
122		12	Jackpot
123		13	Melon
124		14	Plum
125		15	Lemon
126		16	Skill Steppa
127		17	Nearest win

<u>Auxiliary Lamp Allocations</u>

Lamp	Blue Pin	Green Pin	Position
129	9	11	
144	7	10	Lose feature board top
145			Hired Hand Board top
160	4	10	Feature +1 board top
168	3	10	Name 4
169	_	11	Name 5 number plate
176 177	2	10 11	Win series Bank roll
184	1	10	Built 1011
185	_	11	Feature reel
193	9	2	
194		3	
195		4	
196		5	
197	0	6	
200 203	8	1 4	
208	7	1	Lose board left
209	,	2	Nudge +1 board left
210		3	Feature +2 board left
211		4	Meet the Mob board top
212		5	Raid board top
213		6	Nudge+1 board top
216	5	1	Meet the Mob board left
217		2	Cash+1 board left
218		3	Nudge +2 board left
219		4	Name 8
220		5 6	Name 9
221 224	4	1	Name 10
224 225	4	2	Weapon box board left Feature 1 board left
226		3	Getaway board bottom left
227		4	Hi
228		5	Meet the mob board top
229		6	Cash +2 board top
232	3	1	Meet the Mob board
233		2	Hired Hand board
234		3	Nudge+1 board
235		4	Skill climb
236		5	Cash link
237	2	6	Nudge picker
240 241	2	1 2	Name 6 left headlight Name 7
241		3	Getaway car top left
242		4	Name 1
244		5	Lo
245		6	Super jackpot
246		7	
248	1	1	Feature +1 board bottom
249		2	Nudge +2 board bottom
250		3	Cash +3 board bottom
251		4	Lose nudges board bottom
252		5	Start feature board

MPU Connections

11 Way	White –Triac Drives
Pin	Function
1	48v AC
2	0v
3	Solenoid diverter
4	Not used
5	Not used
6	Not used
7	Not used
8	Not used
9	Not used
10	Not used
11	Refill meter

11 Way	Blue – Power Out
Pin	Function
1	48v AC
2	0v
3	Audio output
4	0v
5	0v
6	0v
7	+12v DC supply
8	Key
9	-12v DC supply
10	+34v DC supply
11	Aerial

19 Way	Orange-switches
Pin No	Function
1	Float Switch
2	20p level sense
3	£1 level sense
4	Hopper dump switch
5	Not used
6	Stake
7	Stake
8	Stake
9	Jackpot select
10	Jackpot select
11	Jackpot select
12	Jackpot select
13	% key pin 4
14	Key
15	% key pin 3
16	% key pin 2
17	% Key pin 1
18	Enable pins 1-8
19	Enable pins 9-17

19 Way	Black-Switches
Pin No	Function
1	Not used
2	Not used
3	Not used
4	Not used
5	Not used
6	Test switch
7	Refill key switch
8	Door switches
9	Cancel/Take
10	Hold-Nudge
11	Hold-Nudge
12	Hold-Nudge
13	HI
14	LO
15	Exchange
16	Key
17	Start
18	Enable Pins 1-8
19	Enable pins 9-17

10 Way	Yellow –Meters
Pin	Function
1	Cash In
2	Cash Out
3	Token In
4	Token Out
5	Not used
6	Not used
7	Not used
8	Refill meter
9	Key
10	+12v DC Common

9 Way	Green – Photo
Pin	Function
1	+5v supply
2	LED Drive
3	Signal
4	Key
5	Reel D input
6	+12v supply
7	Reel C input
8	Reel B input
9	Reel A input

15 Way	Red-Power In
Pin No	Function
1	-12v Return
2	+34v Supply
3	+34v Supply
4	Key
5	48v Return
6	-12v supply
7	+12v supply
8	+12v supply
9	+12v supply
10	+12v return
11	+12v return
12	+12v return
13	+34v return
14	+34v return
15	48v supply

19 Way	Red-Stepper Motors
Pin No	Function
1	+12v supply
2	Reel D drive
3	Reel D drive
4	Reel D drive
5	Reel D drive
6	Reel C drive
7	Reel C drive
8	Reel C drive
9	Reel C drive
10	Reel B drive
11	Reel B drive
12	Key
13	Reel B drive
14	Reel B drive
15	Reel A drive
16	Reel A drive
17	Reel A drive
18	Reel A drive
19	+12v supply