## Sideshow installation and maintenance




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## 1. Installation

### 1.1 Unpacking

Carefully remove all packaging material, and site the machine on a flat and level floor. The machine is designed for indoor use only.

### 1.2 Assembling

Lift the top sign to a vertical position, and secure it by pushing the bar into the bracket.


The light fitting for the top sign is shipped on top of the console. Fit this to the top sign, and plug in the electrical connection.


The console fixing bars are shipped on top of the consoles. Pass the electrical wiring through the right bar fastening hole and then thread the wiring through one of the bars, and then plug in to the mating connector. Fasten the right bar in position on the machine and then on to the console. Fasten the left bar in position, which has no wires passing through it.


### 1.3 Set up

The machine is delivered with the following settings:-
Coin mechanism $£ 1$ per game
Shots per game 20
Tickets per hit 1


Turn Power Off Before Altering Dip Switches

1
Dip Switch Settings
Tickets Out
SW2 Dip Switch

| Tickets | T1 | T2 | T3 | T4 |
| :--- | :--- | :--- | :--- | :--- |
| 1 ticket | Off | Off | Off | Off |
| 2 tickets | On | Off | Off | Off |
| 3 tickets | Off | On | Off | Off |
| 4 tickets | On | On | Off | Off |
| 5 tickets | Off | Off | On | Off |
| 6 tickets | On | Off | On | Off |
| 7 tickets | Off | On | On | Off |
| 8 tickets | On | On | On | Off |
| 9 tickets | Off | Off | Off | On |
| 10 tickets | On | Off | Off | On |
| 11 tickets | Off | On | Off | On |
| 12 tickets | On | On | Off | On |
| 13 tickets | Off | Off | On | On |
| 14 tickets | On | Off | On | On |
| 15 tickets | Off | On | On | On |
| 16 tickets | On | On | On | On |

2
Dip Switch Settings
Price of Play
SW1 Dip Switch

| Price | S1 | S2 | S3 | S4 |
| :--- | :--- | :--- | :--- | :--- |
| $50 \mathrm{p} / \mathrm{EC}$ | Off | Off | Off | Off |
| $60 \mathrm{p} / \mathrm{EC}$ | On | Off | Off | Off |
| $70 \mathrm{p} / \mathrm{EC}$ | Off | On | Off | Off |
| $80 \mathrm{p} / \mathrm{EC}$ | On | On | Off | Off |
| $90 \mathrm{p} / \mathrm{EC}$ | Off | Off | On | Off |
| $100 \mathrm{p} / \mathrm{EC}$ | On | Off | On | Off |
| $110 \mathrm{p} / \mathrm{EC}$ | Off | On | On | Off |
| $120 \mathrm{p} / \mathrm{EC}$ | On | On | On | Off |
| $130 \mathrm{p} / \mathrm{EC}$ | Off | Off | Off | On |
| $140 \mathrm{p} / \mathrm{EC}$ | On | Off | Off | On |
| $150 \mathrm{p} / \mathrm{EC}$ | Off | On | Off | On |
| $160 \mathrm{p} / \mathrm{EC}$ | On | On | Off | On |
| $170 \mathrm{p} / \mathrm{EC}$ | Off | Off | On | On |
| $180 \mathrm{p} / \mathrm{EC}$ | On | Off | On | On |
| $190 \mathrm{p} / \mathrm{EC}$ | Off | On | On | On |
| $200 \mathrm{p} / \mathrm{EC}$ | On | On | On | On |

3

Dip Switch Settings
Shots per Game SW3 Dip Switch

| Shots | S1 | S2 | S3 | S4 |
| :--- | :--- | :--- | :--- | :--- |
| 1 shot | Off | Off | Off | Off |
| 2 shots | On | Off | Off | Off |
| 4 shots | Off | On | Off | Off |
| 6 shots | On | On | Off | Off |
| 8 shots | Off | Off | On | Off |
| 10 shots | On | Off | On | Off |
| 12 shots | Off | On | On | Off |
| 14 shots | On | On | On | Off |
| 16 shots | Off | Off | Off | On |
| 18 shots | On | Off | Off | On |
| 20 shots | Off | On | Off | On |
| 22 shots | On | On | Off | On |
| 24 shots | Off | Off | On | On |
| 26 shots | On | Off | On | On |
| 28 shots | Off | On | On | On |
| 30 shots | On | On | On | On |
|  |  |  |  |  |

## 2. Game operation

### 2.1 Gun consoles

When a coin is inserted, and the gun trigger is squeezed, infra red light is emitted from the gun barrel.

### 2.2 Main Cabinet

Each target has an infra red detector, which senses a beam of light from the gun. The target operates a relay on the timer module, which in turn sends a signal to the target animation. The length of time a target operates is adjustable on the timer module, but this is factory set and should not need to be altered.


### 2.3 Target Descriptions

### 2.3.1 Ducks



The profile ducks are fastened to a toothed timing belt, driven by a geared motor which runs continuously when the machine is connected to a power supply. Four electrical solenoids are spaced at equal intervals in front of the ducks, and trip the ducks over when the target is hit and the tripping mechanism is in line with a duck.

### 2.3.2 Playing Cards



The playing card disc revolves continuously when power is connected to the machine. The cards are mounted on a pivot and fall over when the target is hit and the solenoid trip is in line with a playing card.

### 2.3.3 Tin cans

The top tin can jumps when the target is hit.
A hit applies power to the coil of an electrical solenoid. The solenoid plunger hits the bottom of the tin can and sends it up a fixed wire.

### 2.3.4 Spinning plates

When the target is hit power is applied to a motor which spins the plate.

### 2.3.5 Clown bow tie

When the target is hit power is applied to a motor which spins the bow tie.

### 2.3.6 Stars and spirals

There are two stars and one spiral. They are all driven by electric motors.

## 3. Access

The tubular cash door key will open all 3 cash doors. The flat key will open all the other doors.

Gun consoles - Undo the 2 locks on the top face of the consoles. The top is hinged at the back, and will lift complete with the guns.


Coin doors - Opening the top door gives access to the coin mechanism, and opening the bottom door gives access to the cash box.

Main cabinet - A door on each side of the cabinet allows access to the duck drive and to the targets. The 3 target shelves can be removed individually and each one is secured by 2 set screws in the base.

The rear door allows access to the message repeater and electrical components.

## 4. Fault finding

### 4.1 No electrical power

Check the wall socket for a supply. Check the fuse in the plug, and in the machine rear socket where the power enters the machine.

If no power to the gun consoles, check the connections and wiring from the main cabinet to the consoles. Check the console power supply (in the consoles centre back) for a red light, and press the reset button next to the light.

If no power to one gun section, check the connections from the power supply, the connections on the gun board, and fuses.

### 4.2 Unable to hit targets





## 6. Parts for Machines after Serial Number SW077

## Bowtie



## Falling cards

| SD034A | Playing card disc | Falling cards attach to <br> this |  | $£ 39.70$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| SD037 | Card pivot block <br> and bearing <br> assembly | Fastens to playing card <br> disc and playing card |  | $£ 5.60$ |



| SD098A | King of hearts Playing card |  |  | £6.90 |
| :---: | :---: | :---: | :---: | :---: |
| SD098B | Ace of spades playing card |  |  | £6.90 |
| SD098C | Six of hearts playing card |  | $\left\lvert\, \begin{array}{cc} 0 & 0 \\ \cdots & 0 \\ 0 & 0 \\ 0 & 3 \end{array}\right.$ | £6.90 |



| SD098G | Ten of hearts playing card |  |  | £6.90 |
| :---: | :---: | :---: | :---: | :---: |
| SD098H | Seven of spades playing card |  |  | £6.90 |
| SD099 | Card small actuator plate | Makes the playing card fall over |  | £1.60 |

## Ducks

| SD016 | Duck timing belt | Drives and supports travelling ducks |  | £73.50 |
| :---: | :---: | :---: | :---: | :---: |
| SD017B | Duck belt idler pulley | Pulley sitting furthest from the duck motor |  | £38.80 |
| SD017C | Duck motor pulley, 12 mm bore | Pulley fastened to motor shaft, 8 mm bore |  | £38.80 |


| SD021 | Duck profiles | Duck printed on to aluminium laminate |  | £7.30 |
| :---: | :---: | :---: | :---: | :---: |
| SD026 | Duck hinge complete | Inner and outer hinge connected by a stainless steel pin |  | £9.10 |
| SD049 | Duck motor | Drives the duck belt. Do not over tighten when replacing |  | £182.00 |

## Stars and spiral



| SD002A | Stars and spiral <br> motor | 12 volt dc motor |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |

## Spinning plates

| SD005 | Red plate | Part of spinning plate assembly |  | £4.20 |
| :---: | :---: | :---: | :---: | :---: |
| SD006 | Blue plate | Part of spinning plate assembly |  | £4.20 |
| SD007 | Plate shaft and plate complete | Connects the spinning plate to the motor |  | £19.80 |
| SD010 | Plate motor mellor | Quote voltage and numbers |  | £182.00 |
| SD010A | Plate motor crouzet | Quote voltage and numbers |  | £182.00 |

## Tin Cans

| SD015G | Large solenoid <br> with plunger and <br> collar | Kicks the top tin can |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |

Cabinet Parts

| SD054 | Cabuchon lens | Lens for the front <br> surround lighting |  | $£ 0.80$ |
| :--- | :--- | :--- | :--- | :--- |
| SD055 | Cabuchon <br> reflector | Fits behind the lens |  | $£ 1.80$ |
| SD056 | Cabuchon lamp <br> holder | Fits behind the lamp <br> holder and reflector |  | $£ 2.40$ |


| SD057 | Cabochon lamp SES 60 volt 5 watt |  |  | £0.57 |
| :---: | :---: | :---: | :---: | :---: |
| SD056D | Light chaser PCB | Controls light chaser, different features are available. See manual. |  | £144.00 |
| SD056DREP | Light chaser PCB repair | REPAIR ONLY | AS ABOVE | £48.00 |
| E704 | Timer module | Operated by the targets, switches motors and sound effects |  | £252.00 |
| E704REP | Timer module repair | REPAIR ONLY | AS ABOVE | £84.00 |
| E706 | Sound module | Runs the sound effects and bonus feature |  | £255.00 |
| E706REP | Sound module repair | REPAIR ONLY | AS ABOVE | £85.00 |
| E704 | Target module | Switched by infra red light from the gun |  | £49.5 |



| SD088 | Artwork on 10 mm white foamex | Full set of cabinet artwork |  | £561.18 |
| :---: | :---: | :---: | :---: | :---: |
| SD091 | Sideshow manual | Installation and maintenance manual |  | £5.60 |

## Gun consoles

| E701 | Gun module | Used in consoles to <br> drive the gun system |  | REPAIR ONLY | AS ABOVE |
| :--- | :--- | :--- | :--- | :--- | :--- |




