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SPECIFICATIONS

INSTALLATION SPACE:	Width 760mm (29.9") Depth 530mm (20.9") Height 1760 (69.3")
POWER:	190 watts
C.R.T. : WEIGHT	20" Monitor & 10" Monitor 113Kg

Note: Descriptions herin contained may be subject to improvement changes without notice.

INTRODUCTION TO THE OWNERS MANUAL

Sega Enterprises, Ltd., supported by its high level electronic technology of LSI's, microprocessors, etc. and a wealth of experience, has for more than 30 years been supplying various innovative and popular amusement machines to the world market. This owner's manual is intended to provide detailed comments together with all the necessary information covering the operation in general of electronic assemblies, electromechanical servicing and spare parts listing for the Sega Mega-Tech system. The manual is intended for those who have

a knowledge of electrical and technical expertise especially in J's, CRT's, microprocessors, etc. Take the time to read the manual before attempting to work on the machine. Should there be a malfunction, non-technical personnel should under no circumstances attempt to touch any of the internal parts of the achine.

1. HANDLING PRECAUTIONS

When installing or inspecting the machine be vary careful of the following points and pay attention to ensure that the players will enjoy the game safely.

- a) Be sure to turn the power off before working on the machine.
- b) To insert or pull out the plug quickly is dangerous, do not pull by the cable but by the plug only.
- c) Ensure that the grounding connections are making good connection where so specified and that the power cord is not damaged or exposed.
- d) Do not use any fuse that does not meet the specified rating.
 Check all connections to the power supply and game board.
- ., Use only recognised and approved digital test equipment should it be necessary to work on the Mega-Tech logic board.

. ater the initial inspection, confirming that there are no irregularities, turn the power on.





2. PREVENTION OF COUNTERFEITING AND CONVERSION

LABELLING

To prevent counterfeit and conversions, the following labels are placed on all Sega products. To ensure you have a genuine Sega product please always check that it is fitted with a Sega license seal. They are used to prevent illegal or unauthorised copying of Sega products and are your guarantee that you have been supplied with a genuine Sega product.

ORIGINAL SEAL

This type of seal is placed on machines manufactured by Sega

LICENSE SEAL

This type of seal is placed on kits, such as printed circuit boards, of Sega products.

COPYRIGHT NOTICE

This Sega product has the following copyright notice:

© SEGA 1989

This signifies that this work was disclosed in 1989 and is the property of Sega Enterprises, Ltd.



3. PRECAUTIONS CONCERNING THE PLACE OF INSTALLATION

The Sega Mega-Tech System is an indoor video game. DO NOT install it outside. Avoid installing in any of the places listed below so as to ensure proper usage:

- a) Places subject to rain or water leakage, or condensation due to humidity.
- b) In the proximity of an indoor swimming pool and/or shower.
- c) Places subject to direct sunlight.
- d) Places subject heat sources from heating units, etc., or hot air.
- e) In the vicintity of highly inflammable or volatile chemicals or hazardous matter.
- f) Sloped surfaces.
- g) Do not place near or adjacent to fire exits and/or fire extinguishers.
- h) Places subject to any type of violent impact.
- i) Dusty or inhospitable envionments.

CAUTION

See instructions on page 7 for the installation and removal of cartridges.

NAME OF PARTS

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- 1 Design Plate MGS-1030
- 2. 10" Monitor 200-5126
- 3. Coin Mechanism
- 4. 20" Monitor 200-5095
- 5 Control Panel MGS-2000

Door Switch #1

7 Switch Unit MGS-1031

Door Switch #2

- 9. Cash Box
- 10. Door Switch #3
- 11 Data retrieval door

SWITCH PANEL Switch Panel MGS-1031

Demagnetiser switch Used for removing the on-screen colour unevenness

Service Switch Service engineers credit switch bypassing the meter system.

- 3. Test Switch For the functions of this switch see 'Self Testing'
- 4 Left Speaker Volume
- 5. Right Speaker Volume





10.1

6. OPENING THE FRONT MASK

- a) Remove three tamper-proof screws (1)
- b) The top mask is hinged, lift to gain access to: The 10" monitor and controls The coin mechanism The speaker and lamp assembly.





COIN MECHANISM

To gain access to the coin mechanism remove screw (2) and the coin mechanism will hinge forward to allow access to the connectors and manifold.



10" MONITOR CONTROLS



- 1 V. Hold Controls the vertical hold of the image.
- 2. V. Size Controls the vertical picture size.
- 3 V. Pos Controls the vertical position of the image.
 - H. Hold Controls the horizontal position of the image.
- 5. H. Size Controls the horizontal picture size.
 - H. Pos Controls the horizontal position of the image.
- 7. Bright Controls the brightness of the image.
- 8. B. Gain
 9. G. Gain
 9. Adjust to obtain the appropriate contrast and white balance.
 10. R. Gain

Do not adjust the RGB Gain controls unless necessary.



1. Make sure the power to the Mega-Tech game is off before attempting to change or insert Game Software Cartridges.



- 2. When changing a Game Software Cartridge the lable should be facing the right hand side of the cabinet as viewed from the front and the notch on the cartridge facing towards the front of the machine.
 - Gently remove a Game Software Cartridge making sure that the game board is not stressed.



Sega · Mega-Tech System Owners Manual

			ON SWIT				•	D	IP SI	N 1		IMPORTANT NOTE
OP		-		1	2	3	4		6	7	8	For a more detailed
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3 & 4			Coin 4 Inhibit	ON	OFF							settings see page 10
Inhibits			oin 4 Accept	OFF	ON							L
	Coin 3 +			OFF	OFF]
Coin 4			er Credit			ON	ON	ON				
(Lowest	Value of		er Credit			OFF	ON	ON				
Value) &	Value of		er Credit			ON	OFF	ON				
Coin 3			er Credit			OFF	OFF	ON				
These coins are localised		•	er Credit			ON	ON	OFF				
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s set below.)	Value of	1 pe	er Credit			OFF	OFF	OFF				
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	2	Credit	s / Coins						OFF	OFF	ÓN	
	3	Credit	s / Coins						ON	ON		
	1 (Credit	s / Coins						OFF	ON	OFF	
1	5	Credit	s / Coins						ON	OFF	OFF	
	3	Credit	s / Coins	1					OFF	OFF		
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Coin 1 (Highest value	Coin 1 1 2 3 4 5 6 6 7 8 9 10 11 12 13 14	Inhibite Credits Credi	d / Coin / Coin	ONFORFOFS OF OF OF OF OF	2 N N N FFF N N OFFF N N N N	3 0 0 0 0 0 0 0 0 0 0 0 0 0	4 ON ON O	5	6	7	8	
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Coin 1 (Highest value coin) GAME TIME	Coin 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 0:30 1:00 1:30 2:00 2:30 3:00 3:30 4:00 4:30	Credits Credit	V S / Coin / Coin	OFF	2 N N N FFF N	3 0 0 0 0 0 0 0 0 0 0 0 0 0	4 ON N ON	OFF ON OFF ON OFF ON	OFF OFF ON OFF ON OFF ON OFF	OFF OFF OFF OFF ON ON ON OFF	OFF OFF OFF OFF OFF OFF	
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How to use the Coin/Credit switches

For international reasons the value of coins are referred to as Coin 1,2,3 and 4. Coin 1 being the highest value coin and Coin 4 the lowest. e.g. For the U.K.

Coin 4 = 10p Coin, Coin 3 = 20p Coin, Coin 2 = 50p Coin, Coin 1 = \pounds 1 Coin.

The switch settings provided offer a wide range of options. It should be remembered that credits = time and not complete games.

Convert your required currency into units i.e.

For the UKFor Spain $10p =$ value of 1 $25PTs =$ value of 1 $20p =$ value of 2 $50PTs =$ value of 2 $50p =$ value of 5 $100PTs =$ value of 4 $\pounds1 =$ value of 10 $200PTs =$ value of 8	For Germany 50Phg = value of 1 1DM = value of 2 2DM = value of 4 5DM = value of 10	For Italy 50Lira = value of 1 100Lira = value of 2 200Lira = value of 4 500Lira = value of 10
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Take an example where the game will be set for one credit to equal one minute of time with the lowest value coin buying 1 minute, then the settings would be as follows:

Coin value	Credits	Time (Mi	nutes)				
1 (10p/25PTs/50Phg/50Lira)	1	1.00	DIP1 Pos 1&2&3&4&5 = Off Off Off Off Off				
2 (20p/50PTs/1DM/100Lira)	2	2.00	DIP1 Pos 1&2&3&4&5 = On On Off Off Off				
4 (100PTs/2DM/200Lira)	4	4.00	DIP1 Pos 6&7&8 = Off On Off				
5 (50p)	5	5.00	DIP1 Pos 6&7&8 = On Off Off				
8 (200PTs)	8	8.00	DIP 2 Pos 1&2&3 = On On Off				
10 (£1/5DM/500Lira)	10	10.00	DIP 2 Pos 1&2&3 $=$ On Off Off				
(For time in one minute intervals set DIP 2 Pos 5&6&7&8 = Off Off Off Off Off)							



OPTION SWITCH SETTINGS

DIP SW 3

OF	TIONS	1	2	3	4
SOUND	MONAURAL STEREO	ON OFF		OFF OFF	
MODE	JAPAN EXPORT		ON OFF	OFF OFF	OFF OFF

MASTER VOLUME CONTROLS

left and right.

Although there are left and right volume controls fitted conveniently to the switch panel to the right of the lower front door, these are slave controls. The maximum sound level is controlled via the two pre-set controls positioned on the Mega-Tech logic board.

If turning the slave controls on the switch panel does not provide an adequate sound level adjust the left and right controls on the Mega-Tech logic board. Pre-set master volume controls

DIP SW 3

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6 5 4

MEGA TECH SYSTEM (834-6937-01)

COIN/CREDIT OPTION SWITCH SETTING

T

DIP SW 1

OPTION			1	2	- 3	4	5	6	7	8
COIN 3 and COIN 3 COIN 3 COIN 3 COIN 4 Inhibits COIN 3 COIN 4 COIN 3 COIN 3 COIN 4 COIN 3 COIN 2 COIN 2 COIN 2 COIN 2 COIN 2 COIN 2 COIN 2 COIN 2 COIN 2 COIN 3 COIN 2 COIN 2 COIN 2 COIN 2 COIN 3 COIN 2 COIN 2 COIN 3 COIN 2 COIN 2 COIN 2 COIN 2 COIN 3 COIN 2 COIN 2 COIN 3 COIN 2 COIN 3 COIN 2 COIN 2 COIN 3 COIN 3 COIN 2 COIN 3 COIN 3 C		ON ON OFF	ON OFF ON OFF							
		Value-of 8 Par Credit Value of 5 Par Credit Value of 5 Par Credit Value of 4 Par Credit Value of 3 Par Credit Value of 2 Par Credit	OFF		ON OFF ON OFF ON F	ON OFF OFF ON OFF	ON ON ON OFF OFF			
		2 Coins/Credit 1 Credit/Coin 2 Credits/Coin 3 Credits/Coin 4 Credits/Coin 5 Credits/Coin						ON OFF ON OFF ON OFF	ON OFF OFF ON OFF OFF	ON ON ON OFF OFF

I When inhibiting COIN 3 and COIN 4, sat to value of 1 per credit.

OPTION SWITCH SETTING

DIP SW 2

OPTION		1	2	3	4	5	6	7	8
COIN 1 (HIGHEST VALUE COINX	COIN 1 Inhibited 1 Credit/Coin 2 Credits/Coin 3 Credits/Coin 4 Credits/Coin 5 Credits/Coin 7 Credits/Coin 9 Credits/Coin 10 Credits/Coin 11 Credits/Coin 12 Credits/Coin 13 Credits/Coin 14 Credits/Coin 15 Credits/Coin	00000000000000000000000000000000000000	ON OFF OFF ON OFF ON OFF OFF OFF OFF OFF	ON ON FFFFF	ONNONN ONNONN ONNONN ONN OFFF OFFF OFFF				
GAME TIME SETTING	0 30" Per Credit 1'00" Per Credit 1'30" Per Credit 2'00" Per Credit 2'00" Per Credit 3'00" Per Credit 3'30" Per Credit 4'00" Per Credit 4'00" Per Credit 5'00" Per Credit 5'00" Per Credit 6'00" Per Credit 6'00" Per Credit 7'00" Per Credit 7'00" Per Credit 7'30" Per Credit FREE PLAY					OFF ON OFF ON OFF ON OFF ON OFF ON OFF ON OFF	OFF ON. OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	CFFFF CFFF COFFFF COFFF COFFF COFFF COFFF COFFF COFFF COFFF COFFF COFFF COFFF COFFFF COFFFF COFFFF COFFFF COFFFF COFFFF COFFFF COFFFF COFFFF COFFFF COFFFF COFFFF COFFFF COFFFFF COFFFFF COFFFFF COFFFFF COFFFFFF COFFFFFFFF	OFFF OFFF OFFF OFFF OFFF OFFF ONNONNONNON

OPTION SWITCH SETTING

OPTI	1	2	3	4	
SOUND	MONAURAL STEREO	ON OFF			
MODE	JAPAN EXPORT		ON OFF		OFF
ADVERTISE SOUND	OFF ON			ON	

DIP SW 3

¥ COIN 1 - HIGHEST VALUE COIN COIN 2 - : COIN 3 - : COIN 4 LOWEST VALUE COIN

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- 10. HOW TO OPERATE THE MEGA-TECH GAME
- 1. First make sure that the cartridges are correctly inserted and then turn the power ON.
- 2. In the attract mode with no coin (credit) registered the Demo screens are sequencially shown on the main monitor (20"). Also, the sub-monitor (10") displays the individual game instructions.

Push the ENTER button to see the game instructions on the next page and also the game's (1 through 8) menu.

- 3. Insert coins or register credit with the service switch and the timer's countdown starts. Remember that credit is for time and not complete games.
- 4. The 1 through 8 game titles will be shown on the submonitor. Use the SELECT button to select a game.
- 5. Push the START button to begin the game.
- 6. The player will be warned near the end of the time limit by on-screen flashes and audible alarms.
- 7. When the time is up, "TIME UP" will be displayed on the screen.
- 8. Inserting a coin anytime during the game enables the extended game time.
- 9. After play is finished, the game returns to the attract mode.

GAME SELECT ENTER BUTTON BUTTON **11. CONTROL PANEL** O ပ်ပဲ O Game Select Button Game Selection Button 1P Start Button 1 Player Start Button 2P Start Button 2 Player Start Button 1P SIDE 2P SIDE Enter Button The Sub-monitor screen change button

1 & 2 PLAYER START BUTTONS

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- Jack Providence

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13. SELF TEST

The Mega-Tech system has an in-built diagnotics test for buttons, switches and timing systems.

1. Test Items

a)	BOOKEEPING:	Checks the coin input, number of credits and total play time.
b)	DATA CLEAR:	Clears the bookeeping data.
C)	INPUT TEST:	Checks all pushbuttons and joysticks.
d)	COIN TEST:	Checks all coin inputs.
e)	OUTPUT TEST:	Checks alarm and on-screen message.
f)	DIP SWITCH TEST:	Checks all DIP switch settings.
g)	ALARM TIME SET:	Checks time settings of the alarm and on-screen message.

2. HOW-TO-TEST

a) Press the TEST button and the following screen will appea

b) When proceeding to the next test item, move the * (asterisl mark to the corresponding position by pushing the TEST butto

(INFORMATION
	* BOOK KEEPING
	DATA CLEAR
	INPUT TEST
	COIN INPUT TEST
Ł	OUTPUT TEST
	DIP SWITCH TEST
	ALARM TIME SET
	EXIT
	SELECT BY JOYSTICK
\backslash	PUSH TEST BUTTON

- c) When testing only a certain item, push the JOYSTICK (UP/DOWN) to move the * to the desir position, and then press the TEST button to enter that particular item's self-test.
- d) To exit the self-test and return to the game mode, bring the * to the position of EXIT and push the TEST button.

3. TEST ITEMS AND DESCRIPTIONS

3.1. BOOK KEEPING

 a) By using the joystick, book keeping 1 and 2 screens can be alternated. To return the screen to INFORMATION, push the TEST button.





Push the TEST button to proceed to the next item

DATA CLEAR

To clear the book keeping data, bring the * to YES by using the joystick, and then push the SELECT button.



Push the TEST button to proceed to the next item.

INPUT TEST

- a) Checks for correct function of switches.
- b) When each switch is operated, if 'ON' is displayed, the switch is working correctly.
- c) When 'DOOR 1' or 'DOOR 2' is opened, if the 'OPEN' is displayed the switches are working correctly.



Push the TEST button to proceed to the next item

3.4. COIN CHUTE TEST

a) When a coin is inserted, if 'ON' is displayed, the coin validator is working.

COIN 1	OFF
COIN 2	OFF
COIN 3	OFF
COIN 4	OFF

Push the TEST button to proceed to the next item.

3.5. OUTPUT TEST

 a) By using the joystick, bring the * to the corresponding position and check ALARM or FLASH. When the ALARM is to be checked, push the SELECT button to have ALARM sound and push it again to stop the ALARM sound.
 When FLASH is to be checked, push the SELETCT button to start the on-screen FLASH, push again to stop the FLASH.

OUTPUT TEST

* ALARM FLASH

SELECT BY JOYSTICK PUSH TEST BUTTON

Push the TEST button to return to the main menu

3.6. DIP SWITCH ASSIGNMENTS

a) This screen will display the current settings of the DIP switches.

b) The display shows coin denomination, coins and credit combination settings and the timer setting.

DIP SW 1 2 3 4 5 1 6 7 8 OFF OFF OFF OFF OFF OFF OFF DIP SW 2 1 2 3 4 5 6 7 8 OFF OFF OFF OFF OFF OFF OFF TYPE 4# C 3# C 1 COIN 5 CREDITS 2# C ACCEPT 1 COIN 2 CREDITS 1# C ACCEPT TIME 3:00 PER CREDITS

Push the TEST button to proceed to the next item

3.7. ALARM TIME SETTINGS

- a) Allows for the setting of the timer for ALARM and on-screen FLASH that warns the player of the limited remaining play time.
- * ALARM TIME 15 SEC FLASH TIME 10 SEC

SELECT BY JOYSTICK

- b) Select ALARM or FLASH as required by moving the joystick up or down and set the timer period from 00 to 30 seconds by moving the joystick left or right.
- c) The timer when set as above will warn the player just before the game is over by the ALARM or on screen FLASH.

Push the TEST button to proceed to the next item.

3.8. EXIT

a) Bring the * to EXIT and push the TEST button to return the screen to the GAME mode.

SENTINEL TECHNICAL AND SERVICING INFORMATION

Coin Mechanism Assembly

The Sentinel Coin Mechanism is shown in exploded form at the back of this manual.

A rundown is provided between the reject gate (no. 42) and the body (no. 7) along which are placed three coils of different shapes and sizes. The first coil (no. 18) is a large diameter round coil which is placed at the front of the rundown. Coil number two is a smaller round coil (no. 14), which is situated in the gate (no. 42) and the final coil is a wrapround (no. 20). If a coin having passed the three sensors is deemed true the accept gate (no. 40) is opened by energising a solenoid (no. 23A) and the coin passes through the accept

bil (no. 28). Having cleared the accept coil, the accept gate is closed and a credit signal is generated. If the mechanism is fitted with a sorter, this is energised at the same time as the accept flap and is reset once the photocells (no. 47) have been obscured and cleared again.

Join Entry and Exit Options

Option One-Front Entry

The front entry option is achieved by fixing to the basic assembly, parts numbered (6,8,9.12,13.15.16.). In most cases this assembly will then be used in conjunction with the frontplate parts numbered (1,2,3,4,5,44). This option can be either direct or indirect reject and can also be fitted with either a single exit port or a four coin sorter.

Option Two—Top Entry

This is achieved by adding to the basic assembly, parts numbered (51, 52, 53, 54, 55). This unit can be fitted with either a single exit port or a four coin sorter.

Coin Sorter Module

When fitted to the assembly the sorter allows for-way sorting. This is achieved by two incorporated flaps (no. 27, 36) which are actively driven by solenoids (nos. 23 B & 23 C). The first flap (no. 36) is a metal construction,

hich diverts the coin to one of ports A or B at the back of the assembly when the solenoid (no 23C) is not energised, and to one of ports C or D near the centre of the mechanism when the solenoid (no. 23C) is energised. The long plastic divertor flap (no. 27) which runs the length of the sorter, is used to select between ports A and B or between ports C and D under the control

the solenoid (no. 23B).

Two sets of photo-cells (no. 47) are located at the bottom of the sorter which reset the solenoids and allow the assembly to accept further coins immediately after the coin has cleared the cells. This eliminates any timing complications.

Assembly and Disassembly

To remove the body from frontplate, first unplug connectors (parallel or serial interface). Pull back catch (no. 6) and lift body upwards. When stop position is reached the body can be withdrawn. When reassembling, line up keyhole slots in body with retainers on frontplate. Push body forward and downwards. When in position, catch (no. 6) will click into appropriate slot.

To remove Sorter

Undo screw (no. 19c) and remove cover (no. 39). The sorter can be unplugged and withdrawn. When reassembling ensure snubber (no. 25) is in correct position.

Servicing the Sorter

When the three retaining screws (no. 30) are removed the sorter splits into two parts allowing the solenoids and flaps to be serviced. To remove flap (no. 27) the spring retaining screw (no. 35) must be removed first, followed by the spring (no. 32).

When reassembling the unit great care must be taken that neither springs (nos. 32, 37) are damaged.

Accept Gate

To detach accept gate first slide spring (no. 41) towards rear of mech and remove. Pull gate forward and downward. Care must be taken not to damage spring.

Bulb

To replace the bulb it is necessary to remove bulb-holder. Place the blade of a screwdriver between bulb holder (16) and the parallel face of front entry (13). A slight twist will dislodge the small round pin on bulb holder from the slot in the front entry. The holder can now be removed. When the new bulb is in position, the holder should first be located at the back of the entry and the round pin pressed to locate in the appropriate slot.

Reject Button

To replace reject button it is necessary to remove button assembly. This is achieved by removing screws (no. 45). When reassembling ensure cone spring is in correct position.

Direct Reject

By removing screws (no. 58) the reject cup and flap can be detached.

If the reject Gate (no. 42), coils (nos. 14, 18, 20, 28) or circuit board need to be removed please contact Coin Controls.

Application

This section is intended to help the user to get the most out of the SENTINEL coin mechanism. It discusses power supplies, interfacing and coin sorting. No applications section can ever be complete, however, and customers are always very welcome to contact Coin Controls direct to discuss the requirements of their particular coin handling applications and any other coin handling matters.

 Power Supplies

 Voltage:
 11 to 15 Volts DC.

 Current:
 220 mA continuous (nominal)

 0.7 Amps max. (no sorter fitted)

 2.0 Amps max. (sorter fitted)

 2.0 Amps max.

 Rise Time:
 200 msec max.

IMPORTANT NOTE: Operation of the coin mech.outside of specification may cause malfunction or damage. It is important to ensure sufficient power-supply current capacity.

Using the Parallel Interface

The parallel interface provides open-collector output signals which will automatically pull-up or pull-down to any voltage in the range +5V to +24v and OV to -20V respectively. Figure 3.2 is a circuit diagram of the Accept output buffer in each of its three states.

Two types of output coding are available, dependent upon the state of the SELECT input on the parallel interface. The output coding types are: I-Of-4 Coins and 8 Coin.

These are described in detail later on. Full electrical specifications for the interface are given in Section 5.0.

All parallel interface signals are routed via Connector 1, the parallel interface onnector. The following signals are available on this connector:

<u>Pin No.</u> 1	<u>Signal Name</u> COM A	Signal Description Supply input for output pull-up/pull-down. Allowing this line to float disables all the accept outputs.	ļ
2	AI	Accept Output 1. The Accept outputs are all normally open-circuit, pulling to within I Volt of the voltage on the COM A pin when true (logic "I").	
3	n.c.	Polarising Position	,
4	A2	Accept Output 2	
5	A3	Accept Output 3	
6	SELECT	4-coin/8-coin interface selection. This line is a passive pull-up, active pull-down signal Open circuit: 4-coin interface. Tied to Ov : 8-coin interface.	
7	A4	Accept Output 4	
8	14	Inhibit Coin Channel 4. The Inhibit inputs are all passive pull-up, active pull-down. A coin channel is enabled when the inhibit input is pulled to Ov and disabled when it is left floating.	s
9	V (board)	Power supply input. 11—15Vdc. 220mA nominal. 2.0 A peak	
.0	0v		
1	13	Inhibit input for Coin Channel 3.	
12	12	Inhibit input for Coin Channel 2.	5
13	11	Inhibit Input for Coin Channel 1.	
14	15.6	Inhibit Input for Coin Channels 5 and 6.	
5	17,8	Inhibit Input for Coin Channels 7 and 8.	

Cleaning

The plastic coin rundown should be cleaned periodically using a slightly moist cloth. Access to the rundown is gained by folding back the reject flap.

Cleaning of the sorter module may also be necessary from time to time on some sites.

Faulty Operation

Both Master Programmer and Toolkit enable functional testing of the coin mechanism and are of particular use in determining if a fault resides in the coin mech or the host machine. It is generally recommended that mechs with electronic faults be returned to Coin Controls Ltd. for repair.





Off ------ Accept Output Off ------ Com A

Com A not connected or 0v <COM A <5v



Com A connected to +5v to +24v





Fault Finding on the Sentinel

The following information is presented for customer guidance in determining a suspected fault and does not cover all possible causes.

Symptom	Investigate	Possible Cause
Mech does not work (all coins reject)	Connector	Poor contact Bent Pins
	Power Supply	Not switched On. Incorrect Voltage. Inadequate Power. Power supply Rise— Time is too slow.
	Inhibit Inputs	Mech inhibited.
	Accept Gate	Gate not free or dislocated
	Accept channel	Obstruction in channel
Mech takes first coin and then stops working (See Section 3.3.1)	Parallel Interface (If connected)	Parallel I/Face COM A pin not connected.
	Serial Interface (If connected)	Host Machine not responding
True coins reject too often	Power Supply	Voltage less than IIv (NB. voltage drop when solenoid activated).
	Accept Gate	Flap not free or dislocated
	Connector	Loose.
	Rundown	Dirty
Coins stick or jam in me ch	Rundown, accept channel, reject channel, accept gate, sorter (if fitted).	Dirt or Mechanical damage/obstruction
	Mounting of mech Body and/or Sorter.	Improperly mounted.
One of the True Coins always rejects	Parallel Interface (If connected)	Bent or broken Connection Pin, Wrong Inhibit input voltage

Symptom	<u>Investia</u>	<u>415</u>	Possible Cause				
False Coins in Cashbox Accept Flap			Flap spring loose or flap dislocated				
Coins in wrong Cashbox	Sorter		Dirty, Mechanical damage or obstruction, Solenoid failure or wire broken				
No Accept Signal	Connec	tor	Connector Loose or broken				
	Accept	Channel	Dirty or obstructed (mech timeout)				
Power Supply 11 to 15 volts dc.	220mA nominal standby consumption 0.7 Amps Peak, 200 msec max. (no sorter) 2.0 Amps Peak, 600 msec max. (with sorter) Rise Time=200 msec (max.)						
Parallel Interface COM A:	+ 5 to +24 vol	+24 volts dc, 0 to -20 volts dc; 200mA max					
AlA4.		SOmA sink or source, credit pulse 80msec (+/-20%) duration. (See Section 3.2)					
1 7,8:	Open Circuit (3K3 pull-up to on-board 5vdc. Open Circuit or greater than 3.6vCoin Inhibited Short to Ov or less than 1.2vCoin enabled					
Inhibit input:	signal range: maximum)	Ov (abs. i	minimum) < Vin c <5v (abs.				
500 baud (+/-			min.) able 1000 baud or (+/-20%).				
Sdata, Sclk:	Sclk: 47K pull-up to on-board 5v dc. "O"Ov (abs. min) < Vin < 1.2v (abs. max.)						
			s or voltages outside of those malfunction of the mechanism				
Environmental Co	nditions						
Temperature rang Relative Humidity							

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The Sentinel Coin Mechanism Parts List



59 Single coin outlet



14 PARTS LIST

1

Top Assy. Mega-Tech System for UK (MGS-0000) (D-Y)



No.	Sega Part Number	D L Part Number	Qty per	Description
	MGS-1000	SE	1	Assy cabinet for UK
2	MGS-2000	SE	1 1	Assy control panel
		1	1	Assy pwr supply UK
	MGS-0001	SE	1	Baseboard
	B34-6937	SE	1	IC BD Mega 8
-	421-5800-96	SE	1	Original Seal Mega-Tech
	421-0246	SE	1	Sticker export England
	117-5125	SE	1	Nameplate Elec. Spec England
	421-5709	SE	1	Sticker service instr. England
10	SGB-1035X	SE	1	Key bag
11	421-6594	SE	1	Sticker serial No. England
12	421-6671	SE	1	Sticker Danger High Voltage
13	421-7418	SE	1	Adjust Instr Sheet Mega-Tech
14	SGM-2675	SE	1	Polythene Bage 240x370
15	SGM-3640	SE	1	Polythene Lense cover upright
16	540-0006-01	SE 0020	1	Tamp/pr wrench M4
17	540-0007-01	1	1	Tamp/pr wrench M5
18	VC-1013	SE	2	Bracket
19	421-17417	SE	1	Denomination sticker for 421-7416
20	420-5901	SE	1	Owners manual Mega-Tech
	420-5318	SE	1	Display manual 20" 200-5090 UK
101	250-5010	SE	2	Super Clamp
	837-69172	SE	1	Piggyboard
	600-5811-3	SE	1	Wire harness Jst 7p
		SE 1446	2	M screw PH M3x30
	+		2	Spr washer M3
	060-0003	SE	4	Flt washer M3
	050-0003	SE	2	Hex Nut M3
21	610-0239-01	SE	1	Assy CRTG H8 JY00K1
22	610-0239-02	SE	1	Assy CRTG H8 Space Harrier
	610-0239-03	SE	1	Assy CRTG H8 Sup/Thunder Blade
	610-0239-04	SE	1	Assy CRTG H8 Great Golf
	610-0239-05	SE	1	Assy CRTG H8 Aner Burner
	610-0239-06	SE	1	Assy CRTG H8 Out Run
	610-0239-07	SE	1	Assy CRTG H8 Alien Syndrome
	610-0239-08	SE		Assy CRTG H8 Shinobi
	610-0239-09	SE	1	
	010-0200 00			
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Drw No.	Sega Part Number	D L Part Number	Qty per	Description
201	000-0416-FS	SE 0755	4	M Screw PH W/FS M4x16
202	000-0530	SE	2	M Screw PH M5x30
203	001-0406		8	M Screw FH M4x6
204	005-3113-F		8	W Screw RH W/F 3.1x13
205 -	031-0510-8		3	CRG BLT BLK M5x10
206	046-0001		4	SCR Nail Thh Stnls 1.5x16
207	051-0005		3	Fig Nut M5
208	061-0005		2	Spr Washer M5
209	069-0001		4	Flt Washer 5.5-20x1.6
210	032-0530		2	Wing Bolt M5x30
211	008-3113	1	6	W Scr FH 3.1x13
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Drw No.	Sega Part Number	D L Part Number	Qty per	Description
1	MGS-1001	SE	1	Assy Sub-cabinet UK
2	MGS-1014	SE		Chute Assy
	MGS-1015	SE		Cash box
4	MGS-1016	SE		
5	MGS-1017	SE		Mounting Brkt Japanese
5	MGS-1034	SE	2	Mounting Brkt Hantarex
r	r —		1	
			1	
8	MGS-1020	SE	2	
9	MGS-1021	SE	1	
10	MGS-1024	SE	1	
11	MGS-1025	SE	1	
12	MGS-1031	SE		
13	TB-3002	SE	6	
14	TB-3003	SE		
15	AB-0023	SE		
		SE		
				-
18	200-5095	SE 0686		-
19	280-5112	SE		
20	280-5113	SE		
			4	
		1318		Switch stopper
	2			Capswitch
	421-6591-01	SE	1	Sticker coin meter
	421-6672	SE	1	Sticker Main Switch P/on P/off
	200-5126	SE 1419	1	Assy cir display 10"
		SE	4	Hose
101	600-5007	SE.	1	Cable & plug assy w/earth
102	509-0039	MS 0060		Sw Rocker type
103	280-0417	SE	1	Terminal binding post blk
104	280-0418	SE	1	Bushing strain relief 8.3
105	220-5217-01	SE	1	Mag cntr 6 Dig 12v
106	509-5270	MS 0039		Sw Micro SPDT (CherryE68-00A)
107	280-5149	SE	4	Clamp 052
108	280-5008	SE 0808	2	
109	280-5009	SE 1679	3	
110	280-0419	SE	27	
		1. A. S.	indes.	
		12 - 22 - 20 - 11 - 11 - 11 - 11 - 11 -	100 C	

Sega Part Number D L Part Drw Qty Description Number No. per SE 1326 4 M Scr PH W/S M4x6 SE 0755 10 M Scr PH W/FS M4x16 4 M Scr PH W/FS M4x35 8 M Scr PH W/S M5x8 4 M Scr PH W/S M5x25 SE 1352 35 W Scr RH W/F 3.1x13 7 W Scr FH 3.1x10 TMP Prf Scr TH M5x20 6 4 Crg Blt Blk M4x25 4 Fig Nut M4 2 M Scr RH W/FS M4x20 4 M Scr RH W/FS M4x10





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Drw No.	Sega Part Number	D L Part Number	Qty per	Description	
217	060-0006	SE 2027	6	Fit Wshr M6	
218	061-0006	SE 0378	14	Spr Wshr M6	
219	069-0001	SE 1508	2	Flt Wshr 5.5 20x1.6	
220	069-0007	SE 1531	2	Flt Wshr 4.4 16x1.6	170



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Drw No.	Sega Part Number	D L Part Number	Oty per	Description
1	MGS-1022	SE	1	Sp Base
2	MGS-1023	SE	1	Lamp Base Bracket
101	390-5266	LA 0037	2	Lamp 240v 10w
102	214-0105-01	EL0274	2	Bulb Skt T-19
103	130-5025-02	SE	2	Speaker 12x8cm 8ohm 10w
104	280-0425	SE	2	Cord Clamp
201	000-0416-FS	SE 0755	12	M Scrw PH W/FS M4x16
202	000-0306-FS	SE	4	M Scrw PH W/FS M3x6

Assy Front Mask MGS-1025



Drw No.	Sega Part Number	D L Part Number	Qty per	Description
1	MGS-1026	SE	1	Front Mask
3	MGS-1028	SE	1	Speaker Net Right
4	MGS-1029	SE	1	Speaker Net Left
5	MGS-1030	SE	1	Design Plate Mega System
6	422-0290	SE	1	How To Play St UK
7	421-7416	SE	1	Denomination Sticker UK
201	031-0410	SE	12	Crg Blt Blk M4x10
203	051-0004	SE 1173	12	Flg Nut M4
_	1	_	-	





1	AN-1270	SE	1	Sw Brkt	
<u></u>	421-5407	SE	1	Sticker Sw	
101	220-5219	EL 0185	2	Rheo Stat 100 Ohm 10w	
102	601-0042	EL 0263	2	Knob 22mm	1120
103	509-5028	SE 1328	3	Sw PB 1m	
			-		
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Drw No.	Number	D L Part Number	Q	ty Descripti-
1	MGS-4001	SE		
2	560-5145	TX 0069	1	10000010038
3	421-7424	SE	1	mansionner 90-240v
4	VP-4002	SE	1	Sticker fuse inst
5	421-6595-01	SE	1	Regulator unit
		JE	1	Sticker 1A
101	400-5072	EL0334	-	
102	400-5070	SE 0752	1	Switch Regulator
103	270-5020	EL0273	1	DC/DC Convertor Jana
104	117-5167	EL 0771	1	Noise filte
105	514-5029-02	EL 0770	3	Terminal 5p-2px2 short
06	COLU OL		1	Fuse holder
07	280-0419	FU 0068	1	Fuse 5a 32mm Slo-Blo
08	601-0769	SE	5	Harness lug
09	001 0703	SE	2	Staple max #3
10		FU 0064	1	Fuse 3.5a 32mm Slo-Bio
	514-5028			
_	514-0033	SE	1	Fuse holder p w/cove
	280-0297	SE	1	Fuse 1a 6.4x30.mm
-	601-0485	SE	2	One touch bush
-	001-0485	SE 0819	2	One touch colla
)1 (000 0414 50			
	000-0414-FS	SE 1249	4	M Scrw PH W/FS M4x14
-	005-3516	SE 1325	8	W Scrw RH 3.5x16
-	005-3513	SE	2	W Scrw RH 3.5x13
	029-0173	SE	4	W Scrw RH 2.7x25
-	005-3510	SE	9	W Scrw RH 3.5x10
	05-3525	SE	2	W Scrw RH 3.5x25
10	05-3516	SE 1325	1	W Scrw RH 3.5x16
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