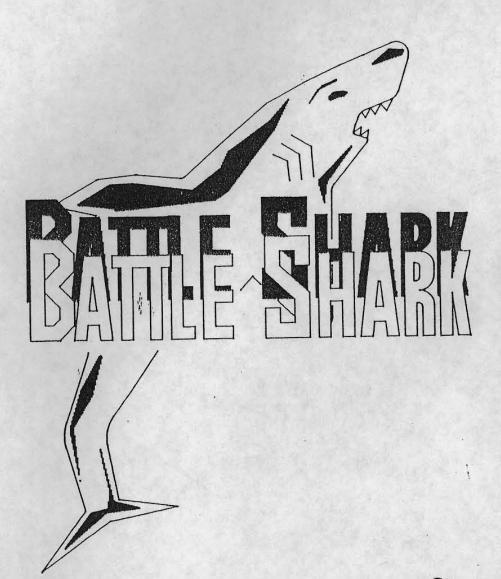
ELECTROCOIN AUTOMATICS LTD

SITDOWN

SERVICE MANUAL



TAITO CORPORATION

TKITO

PART No. 64069

SPECIFICATIONS:

1. Power Supply	HANTAREX US 250						
2. Power Consumption	140w						
3. Play Pricing	Adjustable on Dip switches						
4. TV Monitors	25" Hantarex 9000E colour monitor						
5. Dimensions	Width: 661mm						
	Depth: 754mm (without seat)						
	Height : 1802mm						
6 Weight Approximately: 160 kg * The specifications and appearance may be changed for improvement.							
Table of Contents							
Installation							
Play Instructions							
Test Mode							
Dip Switch Settings							
	8. 9, 10. 11						
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Power supply (Refer to Hantarex Manual) 19							

THIS VIDEO GAME IS FOR INDOOR USE ONLY. WHEN INSTALLING AVOID PLACES MENTIONED BELOW

PLACES SUBJECT TO CONDENSATION DUE TO HUMIDITY.

IN THE PROXIMITY OF AN INDOOR SWIMMING POOL OR SHOWER.

PLACES SUBJECT TO DIRECT SUNLIGHT.
VICINITY OF HIGHLY INFLAMMABLE/VOLATILE CHEMICALS.

UNEVEN SURFACES.

VICINITY OF FIRE EXITS AND FIRE EXTINGUISHERS.

DUSTY ATMOSPHERE.

INSTALLATION

IT IS IMPORTANT TO AVOID ROUGH HANDLING OF THIS MACHINE AS CERTAIN PARTS ARE FRAGILE. UPON REMOVAL OF THE SHIPPING CARTON EXAMINE THE EXTERIOR OF THE CABINET FOR DENTS, CHIPS OR BROKEN PARTS. ACCESS TO THE APPLIANCE SHOULD ONLY BE MADE BY QUALIFIED PERSONNEL FOR ANY PURPOSE. INSPECT THE INTERIOR OF THE CABINET AS FOLLOWS:

- A) CHECK THAT ALL THE PLUG IN CONNECTORS ARE FIRMLY SEATED i.e. THE EDGE CONNECTOR ON THE CPU BOARD. IF ANY CONNECTORS ARE FOUND UNPLUGGED IT IS IMPORTANT WHEN RE-PLUGGING NOT TO FORCE THE CONNECTORS TOGETHER. AS SOME MAY BE KEYED AND ONLY GO ON IN THE PROPER ORIENTATION.
- B) CHECK THAT ALL PLUG-IN INTEGRATED CIRCUITS AND SUB BOARDS ON THE GAME PCB ARE FIRMLY SEATED IN THEIR SOCKETS.
- C) CHECK ALL SUB ASSEMBLIES SUCH AS THE POWER SUPPLY FOR SECURE MOUNTING.

ENSURE THE MAINS SUPPLY IS CORRECT FOR OPERATION OF THE MACHINE, AND THAT THE SUPPLY HAS A GOOD EARTH CONNECTION.

SAFETY/MAINTENANCE

THIS VIDEO GAME REQUIRES CERTAIN MAINTENANCE TO KEEP IT IN GOOD WORKING ORDER. IT IS ADVISED THAT THE SITE MANAGER CHECKS THE SERVICEABILITY OF THE MACHINE DAILY.

WARNING

HIGH VOLTAGES EXIST WITHIN THE MACHINE SO IT IS ADVISABLE THAT ONLY QUALIFIED SKILLED PERSONNEL SHOULD TOUCH ANY INTERNAL PARTS OF THE MACHINE. THE HIGH VOLTAGES PRESENT MAY CAUSE SHOCK OR EVEN FATALITY WITH MISUSE. ALWAYS TURN THE MACHINE OFF BEFORE COMMENCING ANY WORK.

HIGH VOLTAGES MAY EXIST IN ANY MONITOR UNIT, EVEN WITH THE POWER DISCONNECTED. USE EXTREME CAUTION AND DO NOT TOUCH ELECTRICAL PARTS, OR THE YOKE WITH YOUR HANDS OR WITH METAL OBJECTS HELD IN YOUR HANDS. INFORMATION ON THE MONITOR FUSES ARE CONTAINED IN THE MONITOR MANUAL SUPPLIED WITH THIS MACHINE.

CAUTION

DO NOT USE FUSES OTHER THAN THOSE SPECIFIED, FOR THE CONTINUED PROTECTION OF YOUR GAME.

NEVER CONNECT OR DISCONNECT ANY CONNECTORS OF THE PCB, OR RESET THE DIP SWITCH SETTINGS WHILE THE POWER IS ON.

REGULARLY CLEAN THE OUTSIDE OF THE CABINET. DO NOT DRY WIPE ANY OF THE ACRYLIC PANELS, BECAUSE ANY DUST CAN SCRATCH THE SURFACE AND RESULT IN FOGGING THE PLASTIC. ACRYLIC SURFACES MAY BE CLEANED WITH ANY NON-ABRASIVE HOUSEHOLD CLEANER.

PLAY INSTRUCTIONS

YOU ARE A SUBMARINE GUNNER.ENTER THE ENEMYS BASE AND DESTROY I
DURING THE THIRD WORLD WAR, HOSTILE FIGHTING HAS TAKEN
PLACE ON LAND AND HAS EXTENDED INTO THE OCEANS.
BUT THE PEACE NEGOTIATIONS ARE AN ENEMY TRAP.THE ENEMY
IS BUILDING AN UNDERWATER FORTRESS.SEEK AND DESTROY II

LETS GET TO WORK BATTLESHARK!

HOW TO PLAY

AT THE START, A CERTAIN NUMBER OF TORPEDOS ARE GIVEN TO EACH PLAYER.

THEY WILL FILL UP AUTOMATICALLY, DURING A PERIOD OF TIME.

THE NUMBER OF TORPEDOS ARE INCREASED BY, DEFEATING THE BOSS PLAYER

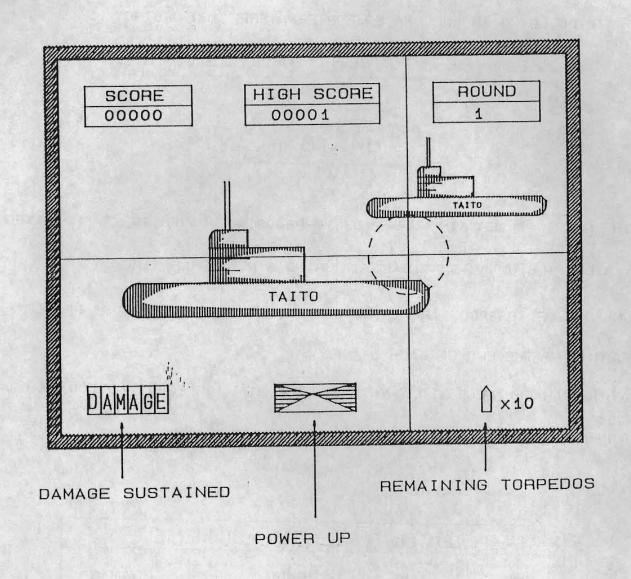
APPEARING AT THE END OF EACH STAGE.

TO AVOID DAMAGES RECEIVED, AVOID THE ENEMIES TORPEDOS AND BODILY CRASHES.

IF YOU HAVE RECEIVED TOO MUCH DAMAGE THE GAME ENDS.

PERISCOPE	ITEMS				
	POWER UP	TORPEDOS	DAMAGE RECOVERY		
LIEPT/NIOHT					

SCREEN EXPLANATION

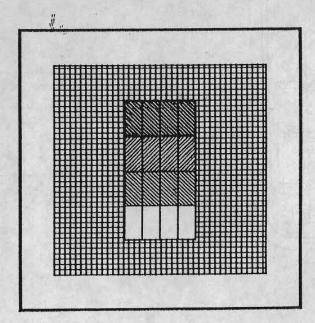


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TEST MODE

COIN A: OFF	C	011	۷ В	:	OF	F	- 15	
SERVICE SW.: OFF		TILT: OFF						
1 PLAYER : OFF			PL	AYE	R:	0	FF	
FIRE: OFF			CK H	:	00 (1	3C-4	12)	
		STIC	CK V	4	00 (1	CO-3	3E)	
DIP SWITCH:	8	7	6	5	4	3	2	1
A: L: ON	Н	Н	Н	Н	н	L	Н	Н
B: H: OFF	Н	Н	Н	Н	Н	Н	Н	Н
SOUND CODE O - FE								
RAM O.K								
ном о.	K				4	AL S		

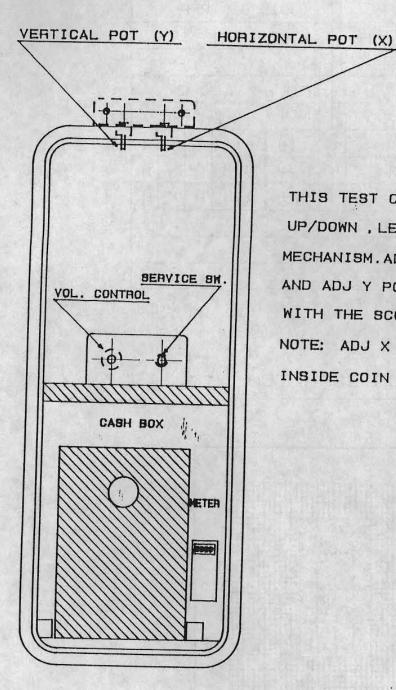
CROSS HATCH



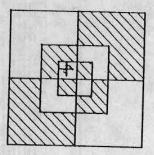
WHEN THE CROSS HATCH AND COLOUR BARS ARE DISPLAYED

ON THE SCREEN, COLOURS AND BRIGHTNESS CAN BE ADJUSTED.

PRESS FIRE BUTTON TO CONTINUE TEST.



THIS TEST CAN BE USED TO INDICATE THE UP/DOWN , LEFT/RIGHT MOVEMENT OF THE SOPI MECHANISM. ADJUST POSTION USING ADJ X AND ADJ Y POTENTIOMETERS AS NECESSARY WITH THE SCOPE MECH. IN ITS CENTRAL POST. NOTE: ADJ X AND ADJ Y POT'S ARE LOCATED INSIDE COIN DOOR MOUNTED ON A BRACKET.



PRESS FIRE BUTTON TO CONTINUE TEST

BATTLE SHARK DIP SWITCH SETTINGS

PLEASE NOTE! BEFORE CHANGING THE SETTINGS TURN OFF THE MAINS POWER.

[] DIP SWITCH A.

SETTINGS	POSITIONS	1	2	3	4	5	6	7	8
TEST MODE	NORMAL GAME TEST MODE			OFF ON					
ARRACT SOUND	HTIW				OFF				
COIN A	1 COIN 1 PLAY 2 COINS 1 PLAY 3 COINS 1 PLAY 4 COINS 1 PLAY	OFF				OFF ON OFF	OFF		
COIN B	1 COIN 2 PLAYS 1 COIN 3 PLAYS 1 COIN 4 PLAYS 1 COIN 6 PLAYS							OFF ON OFF ON	OFF

[] DIP SWITCH B.

POSITIONS	1	S	3	4	5	6	7	8
PANK B	OFF	OFF						
HANK C	OFF	ON				OFF	-	
NORMAL A			OFF	OFF		0, ,		
8			UN					
FAST D			DN	ON				
	RANK B RANK A RANK C RANK D	RANK B OFF RANK A ON RANK C OFF RANK D ON NORMAL A B C	RANK B OFF OFF RANK A ON RANK C OFF RANK D ON NORMAL A B C	RANK B OFF OFF RANK A ON OFF RANK C OFF RANK D ON OFF ON OFF ON OFF ON OFF ON OFF	RANK B OFF OFF RANK A ON RANK C OFF RANK D ON NORMAL A OFF B C OFF ON	RANK B OFF OFF OFF ON O	RANK B OFF OFF RANK A ON ON OFF RANK D ON ON OFF NORMAL A OFF C OFF ON	RANK B OFF OFF RANK A ON OFF RANK C OFF RANK D ON OFF NORMAL A OFF C OFF ON OFF

PINOUT INFORMATION

PIN COLOUR FUNCTION

1. YEL/BLK 2. N/C 3. WHT/BLU 4. N/C 5. WHT/GRN 6. N/C 7. WHT/BLK 8. N/C 9. WHT/YEL 10. BLU/BLK 11. BLU/YEL	10p 10p 10p 20p 20p 50p 50p £1 £1 0 0 0	MICROSWITCH OR N.P.N OPEN COLLECTOR INPUT. MICROSWITCH OR N.P.N. OPEN COLLECTOR INPUT. PNP INPUT (MS 111/SENTINEL) INPUT (MICROSWITCH) INPUT (MS 111/SENTINEL) INPUT (MICROSWITCH) INPUT (MS 111/SENTINEL) INPUT (MICROSWITCH) INPUT (MICROSWITCH) INPUT (MS 111/SENTINEL) VOLTS (10p INHIBIT)
12. BLU/ORG 13. BLU/WHT	0	VOLTS (50p INHIBIT) VOLTS (£1 INHIBIT)
14. BLACK	0	VOLTS
15. BLACK	Ö	VOLTS
16. N/C	0	VOLTS
17. N/C		VOLTS
18. ORANGE	+ 12v	DC
19. ORANGE	+ 12v	DC
20. ORANGE	+ 12v	DC
21. BLU/VIO		YE COMMON FOR MS111/SENTINEL
22. WHT/RED 23. ORG/BLK	CREDIT	OUTPUT (NPN OPEN COLLECTOR) OUTPUT (NPN OPEN COLLECTOR)
24. N/C	0	VOLTS :

NOTES:

1) Use 0 volts for negative common if plugging into MS 125 seperator unit.

2) Ensure that there is no coin meter connected across any input, eg. via a

microswitch or an adaptor card.

NOTE: On most unigame adaptors pin 10 is linked to pin 24, and pin 11 is linked to pin 25, these links should be removed completely. Then short pin 11 to pin 12 on the adaptor card. This then uses the output from the credit board meter drive.

3) The meter will always total cash in 10p units regardless of any credit

setting

4) More than one coin mech may be fed into the PCB.

e.g.	A)	\$10	(up	to	four)
		S10	XI	MS	111
	C)	S10	XI	MS	125
	D)	S10	X :	Sen	tinel

5) Most credit boards are supplied with a standard credit loom.

(Part No 16315) fitted with a male 6 way amp mate 'N' lock connector.

Pinouts are shown below.

PIN COLOUR FUNCTION

1.	ORANGE	+12v DC SUPPLY	
2.	PINK	+5v DC (LAMP SUPPLY)
3.	N/C		
4.	WHT/RED	TO COIN METER	
5.	BLACK	Ov DC	
6.	ORG/BLK	COIN INPUT TO GAME PCI	3.

DIP SWITCH SETTINGS V-2

FUNCTION	1	2	3	4	5	<u>6</u>	7	8
Bonus Games			Not	used				
None For every 50p For every £1 For every £2	on off on off	on on off off						
1 Pulse per credit 2 Pulses per credit					on off			
Price per play								
10p 20p 30p 40p 50p 60p £1 £2						on off on off on off	on on off off off	on on on off off off

Please Note: A bonus game will only be awarded if the game price of play is less than the bonus value set. Also if a mixture of coins are inserted, the time interval between coins inserted must be of less than 5 seconds for the bonus to be awarded.

EXAMPLES OF SETTINGS (FOR £1 INSERTED).

Price of Play	Bonus Games	Credits	Bonus	Tota
10p	off	10	None	10
10p	For every 50	0 110	2	12
10p	For every £1	10	1 1 1 1 1	11
20p	off	5	None	5
20p 20p	For every 50 ₁	5	2	5 7
20p	For every £1	5		6
30p	off	3	None	3 5
30p	For every 50 ₁		2	5
30p	For every £1	3	1	4
40p	off	2	None	3
40p	For every 50	2 p 2	2	4
40p	For every £1	$\bar{2}$	1	3
50p	off	$\bar{2}$	None	2
50p	For every £1	$\bar{2}$	1	3

COIN CONTROLS CCU

TECHNICAL DATA

APPLICATIONS

CCU with sentinel

The CCU is designed to work with the sentinel 30 range of validators in a single or dual currency mode. All connections to the validators are directly from the CCU. Connections to the host machine being via the 6 way connector. If it is required that the host machine controls inhibits directly then the inhibit wiring will need to be modified to suit the application.

SWITCH SETTINGS FOR CCU

Totalising switch

As each coin is accepted, the number of credits generated by the coin are calculated by dividing the coin value by the price per credit. The result is added to the credit total. In non-totalise mode, if the coin is 20p or 10p, any money remaining after the credit calculation is added to the next 20p/10p entered before the next credit calculation is performed. If the coin is £1 or 50p then the additional credits will also be added to the credit total. In totalise mode all 20p and 10p coins are added together. Whenever this total exceeds £1 or 50p then the corresponding additional credits are added to the credit total. A time limit is placed on the totalisation to prevent the money total from being passed from one used to the next.

S11 ON - TOTALISE MODE

S11 OFF - NON TOTALISE MODE

CURRENCY SELECT SWITCH

Most coin sets have a fixed ratio of 100, 50, 20, 10 eg. 100p, 50p, 20p, 10p, but a small number of coin sets possess a different ration eg. 100 cents, 25 cents, 10 cents, 5 cents. On the CCU an option switch is available to allow an operator to select the coin set required. When the standard coin set is selected, the meter output pulses are in units of 10p. For the non-standard coin set, the meter output pulses are in units of 5c.

\$12 ON - NON-STANDARD COIN SET (100, 25, 10, 5) \$12 OFF - STANDARD COIN SET (100, 50, 20, 10)

INHIBIT SWITCHES

The inhibit switches are connected directly to the sentinel. There are individual switches for 11-14 and 15,6 and 17,8.

NOTE: When sentinel is used in dual currency mode, and 15,6 and 17,8 are enabled by setting SW17 and 18 on. Then both currencies must have the same coin ratios.

4.4 PRICE SETTING

The price settings switches are arrange din three groups: 5 switches for the basic price per credit, 3 switches for the number of additional credits bought by the highest value coin eg. £1.

2 switches for the number of additional credits bought by the second highest value coin ig. 50p.

PROGRAMMING INFORMATION

PRICE PER GAME FOR 100, 50, 20, 10 COIN SET

SW1	SW2	sw3	SW4	SW5	UNITS/GAME
$\frac{3111}{X}$	ON	ON	ŌN	ON	5
X	OFF	.ON	ON	ON	10
X	ON	OFF	ON	ON	20
X	OFF	OFF	ON	ON	30
X	ON	ON	OFF	ON	40
X	OFF	ON	OFF	ON	50
X	ON	OFF	OFF	ON	60
X	OFF	OFF	OFF	ON	70
X	ON	ON	ON	OFF	80
X	OFF	ON	ON	OFF	90
X	ON	OFF	ON	OFF	100
X	OFF	OFF	ON	OFF	110
X	ON	ON	OFF /	OFF	120
X	OFF	ON	OFF	OFF	13/0
X	ON	OFF	OFF	OFF	140
X	OFF	OFF	OFF	OFF	150

X = DON'T CARE

ADDITIONAL GAMES FOR HIGHEST VALUE COIN(COIN 1)

SW6	SW7	SW8	FUNCTION
ON	ON	ON	NO ADDITIONAL GAMES
OFF	ON	ON	1 ADDITIONAL GAME
ON	OFF	ON	2 ADDITIONAL GAMES
OFF	OFF	ON	3 ADDITIONAL GAMES
ON	ON	OFF	4 ADDITIONAL GAMES
OFF	ON	OFF	5 ADDITIONAL GAMES
ON	OFF	OFF	6 ADDITIONAL GAMES
OFF	OFF	OFF	7 ADDITIONAL GAMES

ADDITIONAL GAMES FOR SECOND HIGHEST COIN (COIN 2)

SW9	SW10	FUNCTION
ON	ON	NO ADDITIONAL GAMES
OFF	ON	1 ADDITIONAL GAME
ON	OFF	2 ADDITIONAL GAMES
OFF	OFF	3 ADDITIONAL GAMES

TOTALISING SWITCHES

SII ON TOTALISE MODE

S11 OFF NON-TOTALISE MODE

CURRENCY SELECT SWITCHES
S12 ON NON-STANDARD CO NON-STANDARD COIN SET (100, 25, 10, 5) STANDARD COIN SET (100, 50, 20, 10) S12 OFF

INHIBIT	SWITCHES		
<u>513</u>	COIN	ON = ACCEPT	OFF = INHIBIT
S14	COIN 2		
S15	COIN 3		
S16	COIN 4		
S17	COIN 5/6		
S18	COIN 7/8		

28 WAY EDGE CONNECTOR KEYWAY PINS 7,H

- velopo	GND	111	AI	G	ND		BLK
BLK/RED		121	BI		ND		BLK
BLK	GND	13	ci		5v		PNK
PNK	+5v		DI		5v		PNK
PNK	+5v	14			34		
VIO	-5v	15	E	AL PARTY	12		RED/BLK
RED/BLK	+13v	16	F		13v	KEYWAY	
KEYWAY		17	H		(nmpn		WHT/YEL
WHT/ORG	METER A	IA	J	N	METER	В	WILLIAM
		19	IKI			(.)	CDV/DLV
GRY/WHT	LISPEAKER (+)	1 10	ILI		USPEAK		GRY/BLK
WHT/GRY	LISPEAKER (-)	1 11	IMI		SPEAK		BLK/GRY
RED/ORG	VIDEO RED	1 12	INI	1	IDEO (GRN	GRN
	VIDEO BLU	1 13		1	-SYNC		WHT
BLU	VIDEO GND	i 14			ERVICE	ESW	ORG/RED
BLK/BLU	VIDEO GIVD	1 15					
100 mm m	CON I	1 16	TI	(COIN B		YEL/BLK
ORG/BLK	COIN A	1 17	iùi		JOII (D		
	A CONTRACTOR OF A CONTRACTOR		IVI	,	AD X		GRY/BRN
		1 18	The 1 - 12 Con. 12		ST X		GRY/RED
		1 19	6.5				GRY/BLU
		1 20			AD Y		GRY/YEL
		1 21	I Y	J	ST Y		UKITEE
YEL/BLU	PUSH SW A	1 22					
BLU/YEL	PUSH SW B	1 23	la				
DECTTEE		1 24	16				reme IDDAL
		1 25	1 c		VOL. 1		YEL/BRN
AUDI JODNI	VOL. 2	1 26			VOL. 3		YEL/RED
YEL/GRN		1 27			GND		BLK/YEL
BLK	GND	1 28			GND		BLK/ORG
BLK/GRN	GND	1 20	11		UIID		

CONNECTOR B

+24v MOTOR

7 WAY JST 0.1" PITCH NH SERIES

1 +24v GRY
2
3 DRIVE BLK/WHT
4 GND BLK
5 GND BLK/PNK
6
7

CONNECTOR C

1 +5v

PSU

9 WAY AMP M+L PLUG MALE PINS

PNK

2	+5v	PNK
3		
4	GND	BLK/RED
5	GND	BLK/GRN
6	GND	BLK
7	GND	BLK
8	+12v	ORG
9	-5v	VIO

CONNECTOR D

MONITOR SUPPLY

4 WAY AMP M+L PLUG MALE PINS

1	0v	BRN
2	135v	RED
3	0v	ORG V
1	220v	VEI , ,

CONNECTOR F

CONNECTOR BOX

9 WAY AMP M+L PLUG FEMALE PINS

1	+13v	RED/BLK
2	+13v	RED/BLK
3		
4	GND	BLK
5		
6	GND	BLK/PNK
7	GND	BLK
8	+24v	GRY
9	+24v	GRY

CONNECTOR G

VIDEO/MONITOR

12 WAY AMP M+L PLUG (RED) FEMALE PINS

1	VIDEO GND	BLK/BLU
2 3		
3	VIDEO BLU	BLU
4	V-SYNC	WHT
5	VIDEO RED	RED/ORG
6	VIDEO GRN	GRN
7	0v	BRN
8		
9	220v	YEL
10	135v	RED
11		
12	0v	ORG

CONNECTOR H

COIN DOOR

6 WAY AMP M+L SOCKET MALE PINS

1	+12v	ORG
2	+5v	PNK
3	COIN B	YEL/BLK
4	CREDIT BD	WHT/RED
5	GND	BLK
6	COIN A	ORG/BLK

CONNECTOR I

SCOPE

15 WAY AMP M+L SOCKET MALE PINS

1	L/SPEAKER	(+)	GRY/WHT
2	L/SPEAKER	(-)	WHT/GRY
3	R/SPEAKER	(+)	GRY/BLK
4	R/SPEAKER	(-)	BLK/GRY
5	+24v	į.	GRY
6	DRIVE	1	BLK/WHT
7	PUSH A		YEL/BLU
8	GND		BLK
9	PUSH B		BLU/YEL
10	+5v		PNK
11	AD-Y		GRY/BLU
12	AD-X		GRY/BRN
13	GND		BLK
14			
15	EARTH		GRN/YEL

CONNECTOR J

SERVICE SW

FIT MINI PUSH BUTTON

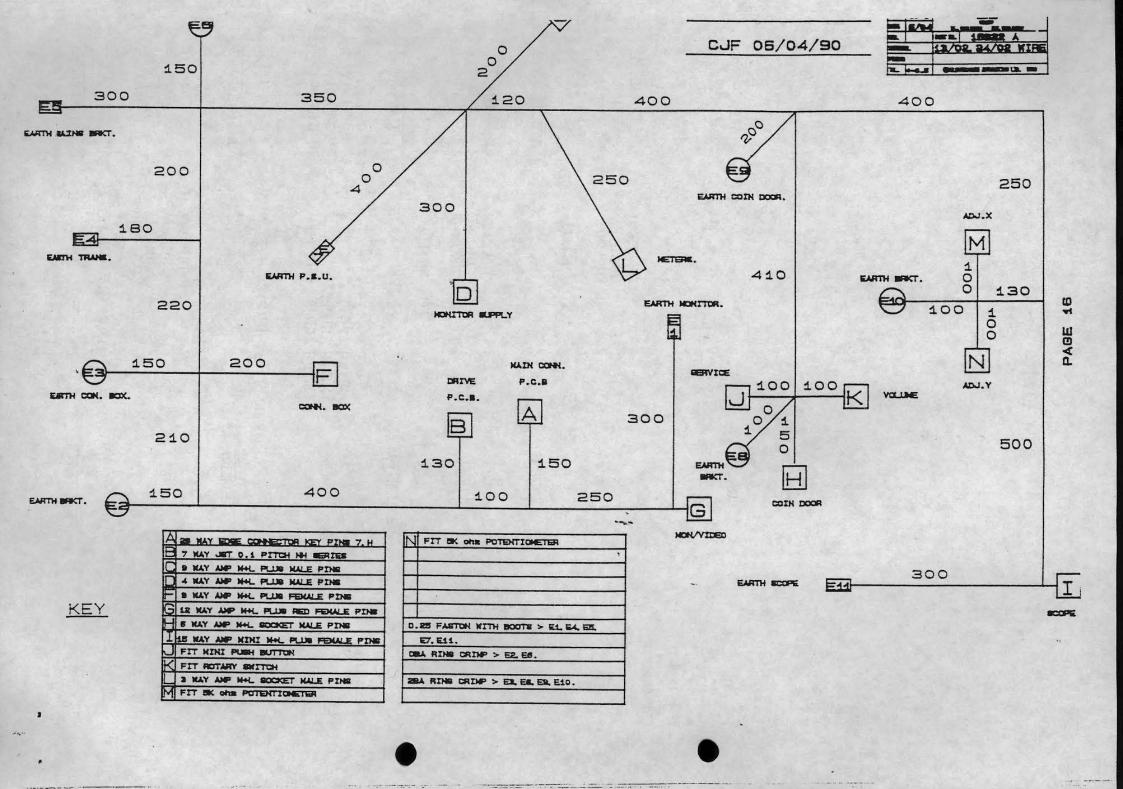
1	SERVICE SW	ORG/RED
2	GND	BLK

CONNECTOR K		ADJ. VOI
	FIT ROTARY SWITCH	
A GND 1 VOL 1 2 VOL 2 3 VOL 3	BLK YEL/BRN YEL/GRN YEL/RED	
CONNECTOR L		METERS
3 W	YAY M+L SOCKET MALE PINS	
1 5+v 2 CREDIT BD 3 METER A 4 METER B	PNK WHT/RED (TIED BACK) (TIED BACK) (TIED BACK)	
CONNECTOR M		ADJ. X
	FIT 5K POT	
1 +5v 2 AJ. X 3 GND	PNK/WHT GRY/RED BLK/YEL	
CONNECTOR N		ADJ. Y

FIT 5K POT

PNK/WHT GRY/YEL BLK/YEL

1 +5v 2 ADJ. Y 3 GND



WIRE LIST

PART NO 16922

TITLE

SHEET 1 OF 2

REVISION A

MAIN LOOM DATE 6-4-90

WIRE NO	FROM	ТО	COLOUR	FUNCTION	WIRE SIZE
1	A-1	C-4	BLK/RED	GND	24/02
2	A-2	1-8	BLK	GND SCOPE	13/02
2 3	A-3	C-1	PNK	+5v	24/02
4	A-4	I-10	PNK -	+5v	13/02
5	A-5	C-9	VIO	-5v.	13/02
6	A-6	F-2	RED/BLK	+13v	24/02
7	A-8	L-3 tied back	WHT/ORG	METER A	13/02
8	A-10	I-1	GRY/WHT	L/SPEAKER (+)	13/02
9	A-11	1-2	WHT/GRY	L/SPEAKER (-)	13/02
10	A-12	G-5	RED/ORG	VIDEO RED	13/02
11	A-13	G-3	BLU	VIDEO BLU	13/02
-12	A-14	G-1	BLK/BLU ***	VIDEO GND	13/02
13	A-16	H-6	ORG/BLK	COIN A	13/02
14	A-22	I-7	YEL/BLU	PUSH SW A	13/02
15	A-23	1-9	BLU/YEL	PUSH SW B	13/02
16	A-26	K-2	YEL/GRN	VOL. 2	13/02
17	A-27	1-13	BLK	GND SCOPE	13/02
18	A-28	C-5	BLK/GRN	GND	24/02
19	A-A	J-2	BLK	GND SERVICE	13/02
20	A-B	K-GND	BLK	GND VOL.	13/02
21	A-C	L-1	PNK	+5v METER	13/02
22	A-D	M-1	PNK/WHT	+5v ADJX	13/02
23	A-F	F-1	RED/BLK	+13v	24/02
24	A-J	L-4 tied back		METER B	13/02
25	A-L	17:1-3	GRY/BLK	R/SPEAKER (+)	13/02
26	A-M	1-4	BLK/GRY	R/SPEAKER (-)	13/02
27	A-N	G-6	GRN	VIDEO GRN	13/02
28	A-P	G-4	WHT	V-SYNC	13/02
29	A-R	J-1	ORG/RED	SERVICE SW	13/02
30	A-T	H-3	YEL/BLK	COIN B	13/02
31	A-V	1-12	GRY/BRN	AD X	13/02
32	A-W	M-2	GRY/RED	JST X	13/02
'33	A-X	I-11	GRY/BLU	AD Y	13/02
34	A-Y	N-2	GRY/YEL	JST Y	13/02
35 36	A-c A-d	K-1 K-3	YEL/BRN YEL/RED	VOL. 1 VOL. 3	13/02 13/02
37	A-e	M-3	BLK/YEL	GND ADJ X	13/02
38	B-1	F-8	GRY	+24v	24/02
39	B-3	1-6	BLK/WHT	DRIVE	24/02
40	B-4	F-4	BLK	GND	24/02
41	B-5	F-6	BLK/PNK	GND	24/02
42	C-2	H-2	PNK	+5v coin door	24/02
43	C-6	H-5	BLK	GND coin door	24/02
44	C-7	F-7	BLK	GND conn box	24/02
45	C-8	H-1	ORG	+12v coin door	24/02
46	D-1	G-7	BRN	Ov Com door	24/02
47	D-2	G-10		135v	24/02
48	D-3	G-10 G-12	RED	0v	24/02
48	D-3 D-4		ORG	220v	24/02
	F-9	G-9 I-5	YEL		24/02
50 51	H-4.		GRY	+24v CREDIT BD	13/02
31	H 4	L-2 tied back	WHIKED	CKEDII DO	13102

WIRE LIST

PART NO 16922

TITLE

SHEET 2 OF 2

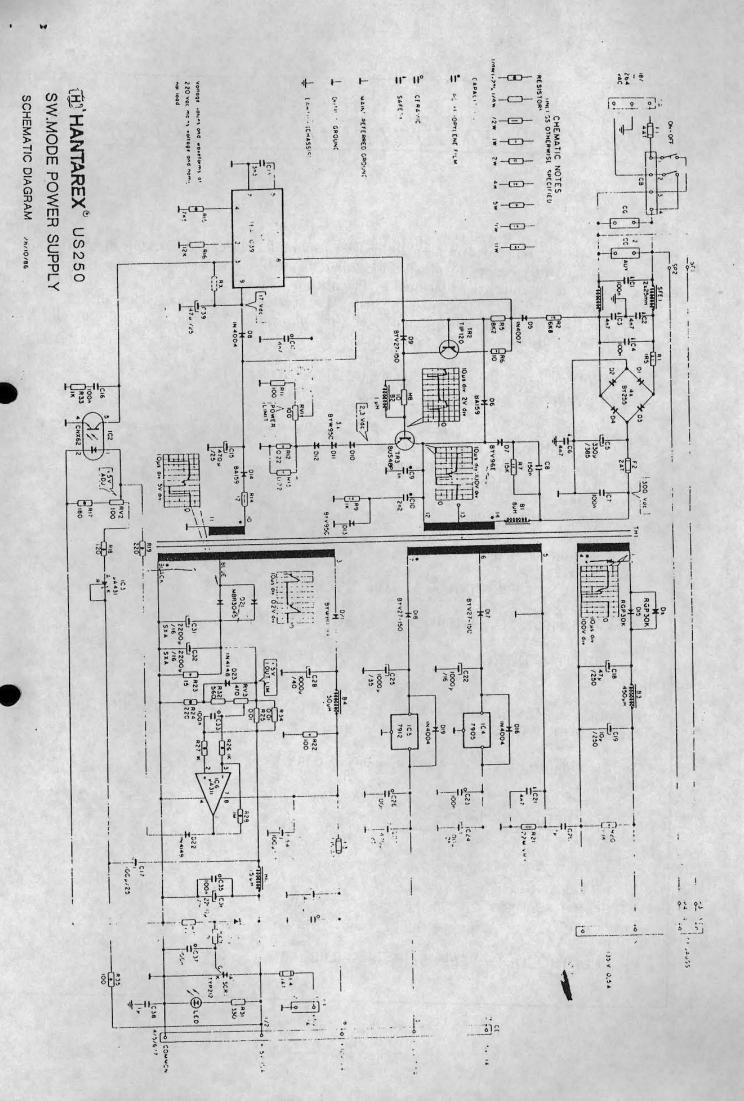
REVISION A

MAIN LOOM

DATE 6-4-90

WIRE	FROM	то	COLOUR	FUNCTION	WIRE SIZE
52	M-1	N-1	PNK/WHT	+5v ADJ Y	13/02
53	M-3	N-3	BLK/YEL	GND ADJ Y	13/02
54	E-1	E-2	GRN/YEL	EARTH	24/02
55	E-2	E-3	GRN/YEL	EARTH	24/02
56	E-3	E-4	GRN/YEL	EARTH	24/02
57	E-4	E-5	GRN/YEL	EARTH	24/02
58	E-5	E-6	GRN/YEL	EARTH	24/02
59	E-6	E-7	GRN/YEL	EARTH	24/02
60	E-7	E-8	GRN/YEL	EARTH	24/02
61	E-8	E-9	GRNYEL	EARTH	24/02
62	E-9	E-10	GRN/YEL	EARTH	24/02
63	E-10	E-11	GRN/YEL	EARTH	24/02
64	E-11	1-15	GRN/YEL	EARTH	24/02

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ELECTROCOIN AFTERSALES & SERVICE LTD

The above company has been formed as part of the Electrocoin Automatics Group at the Cardiff factory to provide the AfterSales Service necessary to support the variety of machines manufactured by Electrocoin Automatics Ltd. The company will be responsible for servicing both Spares and Technical requirements for all U.K. manufactured Electrocoin machines, all "Famous Games" products, and all Board Games distributed by Electrocoin Ltd.

Normal working hours are Monday to Friday 08.00 to 17,30 and Saturday morning 08.00 to 12.30.

AfterSales & Service Tel No: 0222 373059 during working hours, 0836 536195 after hours/weekends.
Please contact the following staff for:-

PARTS ENQUIRIES

GARY SCOBLE

TECHNICAL INFORMATION

IAN COLLEY

ACCOUNTS ENQUIRIES

- JULIE TIPPER

WORKSHOP MÄNAGER

- MIKE CALLAN

CREDIT CONTROLLER

- IAN HEPPENSTALL

PLEASE REMEMBER, TO HELP US HELP YOU, PROMPT RETURN OF FAULTY PARTS IS ESSENTIAL.

Assuring you of the best attention at all times.

EFF LANGUEY

JEFF LANGLEY General Manager

ELECTROCOIN AFTERSALES & SERVICE LTD.