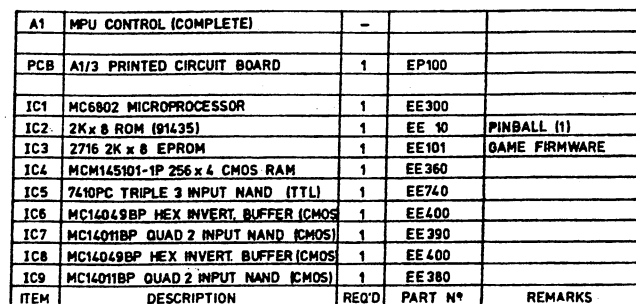
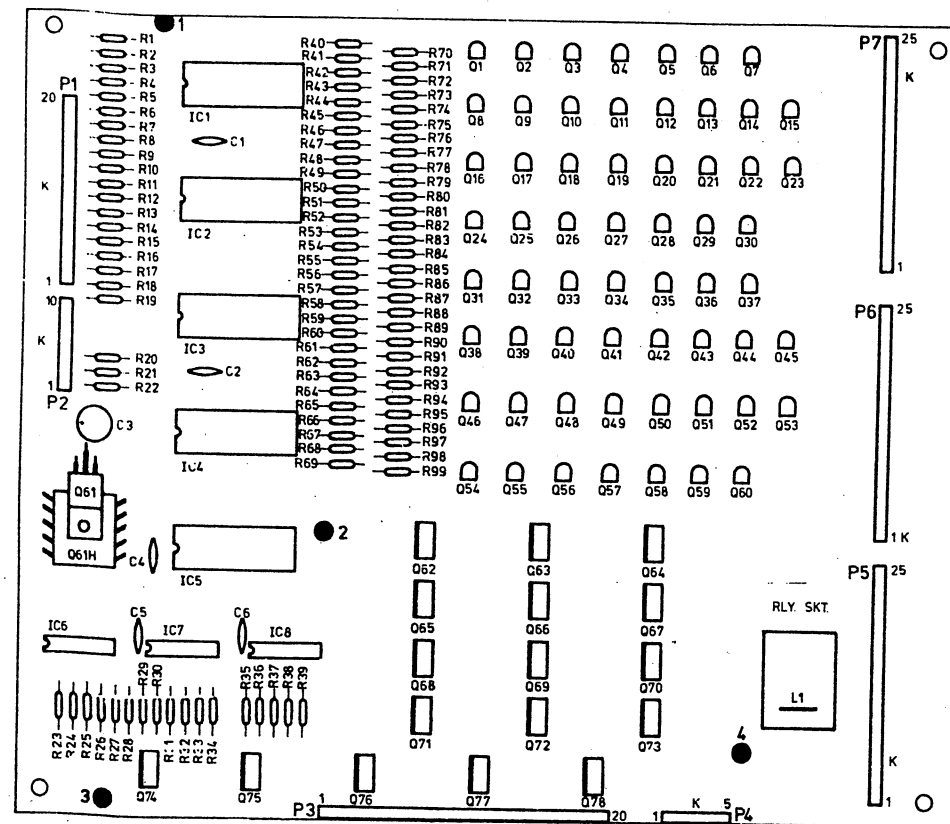




A. Harkin & Co Pty. Ltd.	SCALE	PASSED	DATE
	Full size		8/6/79
MPU ASSEMBLY (A1)	DRAWN	A. PENDER	DRAWING NUMBER HD1022/1
	TRACED		
	CHECKED		

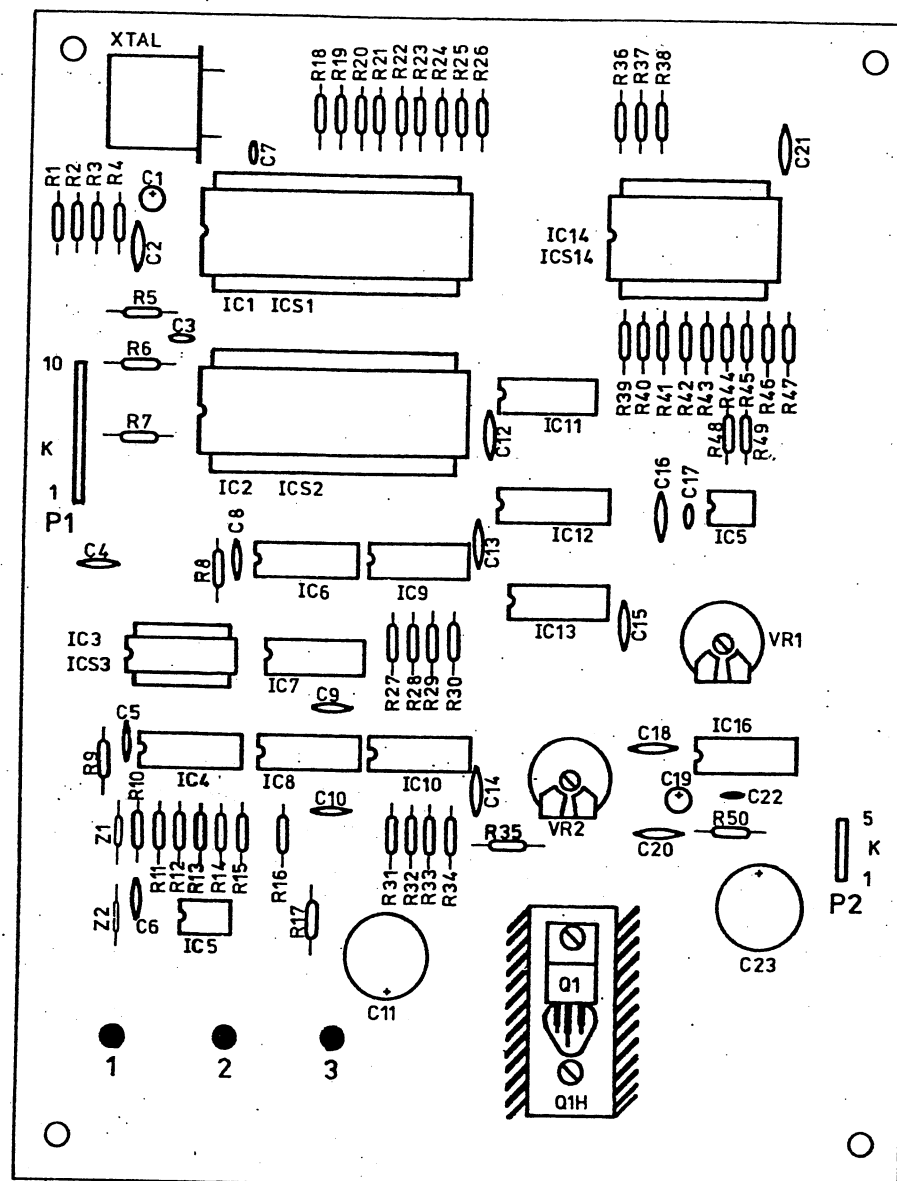


A2	LAMP AND SOLENOID DRIVER (COMPLETE)	1	EP110	
PCB	A2/4 PRINTED CIRCUIT BOARD	1	EP110	
IC1	MC14514BCP 4-16 LINE DECODER/LATCH	1	EE420	
IC2	"	1	"	
IC3	"	1	"	
IC4	"	1	"	
IC5	74154PC 4-16 LINE DECODER	1	EE490	
IC6	7406PC HEX INVERTING BUFFER (O.C.)	1	EE440	
IC7	"	1	"	
IC8	"	1	"	
C1	0.1uF 63V CERAMIC CAPACITOR	1	EC200	
C2	0.1uF	1	"	
C3	100uF 35V RB ELECTROLYTIC CAPACITOR	1	EC520	
C4	0.1uF 63V CERAMIC CAPACITOR	1	EC185	
C5	"	1	"	
C6	"	1	"	
R1	2M2 0HM 1/2W 5% RESISTOR	1	ER460	
R2	"	1	"	
R3	"	1	"	
R4	22K	1	ER360	
R5	"	1	"	
R6	"	1	"	
R7	"	1	"	

R8	22K 0HM 1/2W 5% RESISTOR	1	ER360	
R9	"	1	"	
R10	"	1	"	
R11	"	1	"	
R12	"	1	"	
R13	2M2	1	ER460	
R14	"	1	"	
R15	"	1	"	
R16	"	1	"	
R17	"	1	"	
R18	"	1	"	
R19	100K	1	ER410	
R20	"	1	"	
R21	"	1	"	
R22	"	1	"	
R23	1K	1	ER730	
R24	"	1	"	
R25	"	1	"	
R26	"	1	"	
R27	"	1	"	
R28	"	1	"	
R29	"	1	"	
R30	"	1	"	
R31	"	1	"	
R32	"	1	"	
R33	"	1	"	
R34	"	1	"	
R35	"	1	"	
R36	"	1	"	
R37	"	1	"	
R38	"	1	"	
R39	"	1	"	
R40	2K2	1	ER260	
R41	"	1	"	
R42	"	1	"	
R43	"	1	"	
R44	"	1	"	
R45	"	1	"	
R46	"	1	"	
R47	"	1	"	
R48	"	1	"	
R49	"	1	"	
R50	"	1	"	
R51	"	1	"	
R52	"	1	"	
R53	"	1	"	
R54	"	1	"	
R55	"	1	"	
R56	"	1	"	
R57	"	1	"	
R58	"	1	"	
R59	"	1	"	
R60	"	1	"	
R61	"	1	"	
R62	"	1	"	
R63	"	1	"	
R64	"	1	"	
R65	"	1	"	
R66	"	1	"	
R67	"	1	"	
R68	"	1	"	
R69	"	1	"	
R70	"	1	"	
R71	"	1	"	
R72	"	1	"	
R73	"	1	"	
R74	"	1	"	
R75	"	1	"	
R76	"	1	"	
R77	"	1	"	
R78	"	1	"	
R79	"	1	"	
R80	"	1	"	
R81	"	1	"	
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R87	"	1	"	
R88	"	1	"	
R89	"	1	"	
R90	"	1	"	
R91	"	1	"	
R92	"	1	"	
R93	"	1	"	
R94	"	1	"	
R95	"	1	"	
R96	"	1	"	
R97	"	1	"	
R98	"	1	"	
R99	"	1	"	
Q1	2N5060 30V 0.8A (RMS) SCR	1	EF550	
Q2	"	1	"	
Q3	2N5060 30V 0.8A (RMS) SCR	1	EF550	
Q4	"	1	"	
Q5	"	1	"	
Q6	"	1	"	
Q7	"	1	"	
Q8	"	1	"	
Q9	"	1	"	
Q10	"	1	"	
Q11	"	1	"	
Q12	"	1	"	
Q13	"	1	"	
Q14	"	1	"	
Q15	"	1	"	
Q16	"	1	"	
Q17	"	1	"	
Q18	"	1	"	
Q19	"	1	"	
Q20	"	1	"	
Q21	"	1	"	
Q22	"	1	"	
Q23	"	1	"	
Q24	"	1	"	
Q25	"	1	"	
Q26	"	1	"	
Q27	"	1	"	
Q28	"	1	"	
Q29	"	1	"	
Q30	"	1	"	
Q31	"	1	"	
Q32	"	1	"	
Q33	"	1	"	
Q34	"	1	"	
Q35	"	1	"	
Q36	"	1	"	
Q37	"	1	"	
Q38	"	1	"	
Q39	"	1	"	
Q40	"	1	"	
Q41	"	1	"	
Q42	"	1	"	
Q43	"	1	"	
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Q45	"	1	"	
Q46	"	1	"	
Q47	"	1	"	
Q48	"	1	"	
Q49	"	1	"	
Q50	"	1	"	
Q51	"	1	"	
Q52	"	1	"	
Q53	"	1	"	
Q54	"	1	"	
Q55	"	1	"	
Q56	"	1	"	
Q57	"	1	"	
Q58	"	1	"	
Q59	"	1	"	
Q60	"	1	"	
Q61	MC7805CT POSITIVE 5V REGULATOR	1	EF500	
Q62	TIP122 100V 8A DARLINGTON TRANSISTOR	1	EF100	
Q63	"	1	"	
Q64	"	1	"	
Q65	"	1	"	
Q66	"	1	"	
Q67	"	1	"	
Q68	"	1	"	
Q69	"	1	"	
Q70	"	1	"	
Q71	"	1	"	
Q72	"	1	"	
Q73	"	1	"	
Q74	"	1	"	
Q75	"	1	"	
Q76	"	1	"	
Q77	"	1	"	
Q78	"	1	"	
Q61H	TVS HEATSINK	1	EG930	
Q61H	1/8 x 3/16 RHMT	1		
Q61H	1/8 MACHINED NUT	1		
Q61H	1/8 SHAKEPROOF WASHER	1		
P1	M4030-20A STANDARD WAFER	1	EJ130	
P2	M4030-10A	1	EJ110	
P3	M2402-10A	2	EJ210	
P4	M2402-5A	1	EJ200	
P5	M4030-25A	1	EJ140	
P6	"	1	"	
P7	"	1	"	
TP1-4	WIRE TEST POINT LOOP	4	EG900	
L1	LINK	1		
RLY SKT	PT08-0 PC MOUNTING RELAY BASE	1	EG130	

1/7/80	2	DIODE & RELAY REMOVED
9/1/80	1	D1 NOW 1N4004 C3 NOW 35 VOLT.
DATE	REV. N°	REVISION

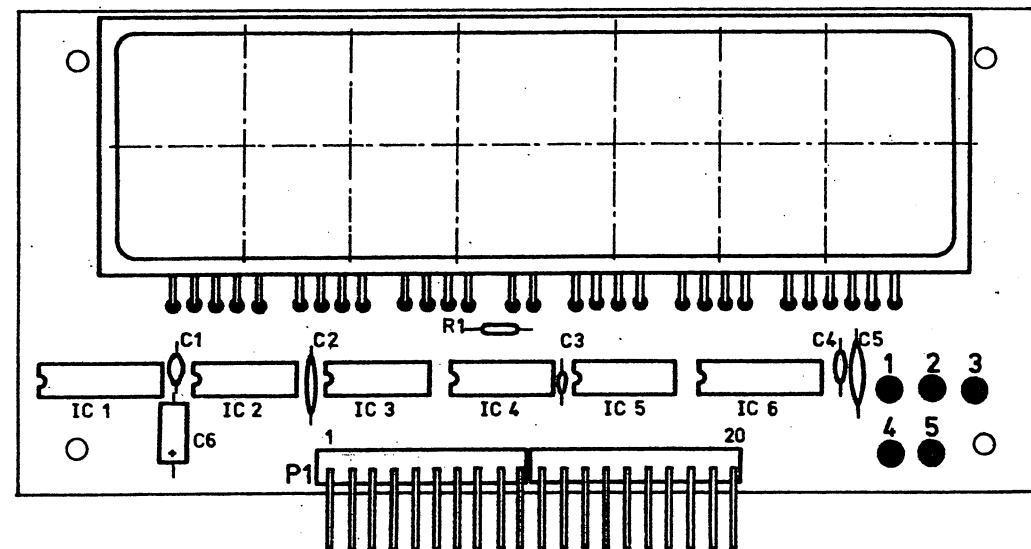
A. Hankin & Co. Pty. Ltd.	SCALE	PASSED	DATE
LAMP & SOLENOID DRIVER ASSEMBLY (A2)	Full Size		22/6/79
	DRAWN	A.P.	DRAWING NUMBER
	TRACED		HD1024/2
	CHECKED		



A3	SOUND SYSTEM (COMPLETE)	-		
PCB	A3/5 PRINTED CIRCUIT BOARD	1	EP 21	
IC1	MC6802 MICROPROCESSOR	1	EE300	
IC2	MC6821 PERIPHERAL INTERFACE ADP.	1	EE350	
IC3	MCM7621 512 x 4 BIPOLAR PROM	1	EE370	WAVESHAPE (1)
IC4	7407PC HEX NON-INVERTING BUFFER	1	EE450	
IC5	MC1741CPI OPERATIONAL AMPLIFIER	1	EE530	
IC6	74LS161PC SYNCHRONOUS 4 BIT COUNTER	1	EE550	
IC7	7493PC BINARY COUNTER	1	EE480	
IC8	7493PC BINARY COUNTER	1	"	
IC9	7407PC HEX NON-INVERTING BUFFER	1	EE450	
IC10	MC14016B QUAD ANALOG SWITCH	1	EE390	
IC11	7408 PC QUAD 2 INPUT AND GATE	1	EE460	ON A3/4 USE 4081 CMOS
IC12	MC14049 HEX INVERTING BUFFER	1	EE400	
IC13	MC14011B QUAD 2 INPUT NAND GATE	1	EE380	BUFFERED DEVICE ONLY
IC14	2716 2K x 8 EPROM	1	EE201	SOUND FIRMWARE
IC15	MC1455PI TIMER	1	EE510	
IC16	LM380 AUDIO AMP	1	EE520	
ICS1	40 PIN GOLD IC SOLDER SOCKET	1	EG700	
ICS2	40	1	"	
ICS3	16	1	EG730	
ICS14	24	1	EG710	
C1	1uF ELECTROLYTIC CAPACITOR 63V RB	1	EC500	
C2	0.1uF CERAMIC CAPACITOR	1	EC200	
C3	330pF	1	EC120	
C4	0.1uF	1	EC200	
C5	"	1	"	
C6	"	1	"	
C7	15pF	1	EC100	
C8	0.1uF	1	EC200	
C9	"	1	"	
C10	"	1	"	
C11	1000uF ELECTROLYTIC CAPACITOR 25V RB	1	EC560	
C12	0.1uF CERAMIC CAPACITOR	1	EC180	
C13	"	1	"	
C14	"	1	"	
C15	"	1	"	
C16	"	1	"	
C17	0.001uF	1	EC170	
C18	0.1uF	1	EC200	
C19	1uF ELECTROLYTIC CAPACITOR 63V RB	1	EC500	
C20	0.1uF CERAMIC CAPACITOR	1	EC200	
C21	"	1	"	
C22	0.01uF	1	EC180	
C23	470uF ELECTROLYTIC CAPACITOR 25V RB	1	EC550	
Z1	IN750 4.7V 400mW ZENER DIODE	1	EF260	
Z2	"	1	"	
VR1	PT15V(12-5) 1K TRIMPOT (SCREW SLOT)	1	ER700	
VR2	PT15V(12-5) 1K TRIMPOT (KNURLED KNOB)	1	ER710	
ITEM	DESCRIPTION	REQ'D	PART N°	REMARKS

R1	4K7 OHM RESISTOR 1/4W 5%	1	ER300	
R2	3K3	1	ER280	
R3	3K3	1	"	
R4	33K	1	ER370	
R5	22K	1	ER360	
R6	1K2	1	ER240	
R7	1K	1	ER230	
R8	3K3	1	ER280	
R9	100	1	ER160	
R10	1K2	1	ER240	
R11	68K	1	ER400	
R12	33K	1	ER370	
R13	18K	1	ER350	
R14	8K2	1	ER330	
R15	1K5	1	ER250	
R16	8K2	1	ER330	
R17	33K	1	ER370	
R18	5K6	1	ER310	
R19	"	1	"	
R20	"	1	"	
R21	"	1	"	
R22	"	1	"	
R23	"	1	"	
R24	"	1	"	
R25	"	1	"	
R26	47K	1	ER380	
R27	8K2	1	ER330	
R28	"	1	"	
R29	"	1	"	
R30	"	1	"	
R31	68K	1	ER400	
R32	18K	1	ER350	
R33	33K	1	ER370	
R34	8K2	1	ER330	
R35	10K	1	ER340	
R36	47K	1	ER380	
R37	"	1	"	
R38	"	1	"	
R39	"	1	"	
R40	"	1	"	
R41	"	1	"	
R42	"	1	"	
R43	"	1	"	
R44	"	1	"	
R45	"	1	"	
R46	"	1	"	
R47	10K	1	ER340	
R48	820	1	ER220	
R49	1K	1	ER230	
R50	2.7	1	ER100	
Q1H	TV21 HEATSINK	1	EG930	
	1/8 x 5/16 RHMT	2		
	1/8" MACHINED NUT	2		
	1/8" SHAKEPROOF WASHER	2		
XTAL	3.27680 MHz CRYSTAL	1	EF700	
Q1	MC7805CT POSITIVE 5V REGULATOR	1	EF500	
P1	M4030-10A MOULDED WAFER ASSY.	1	EJ110	
P2	M4030-5A MOULDED WAFER ASSY.	1	EJ100	
T.P.1-3	WIRE TEST POINT LOOP	3	EG900	
DESCRIPTION		REQ'D	PART N°	REMARKS
A. Hankin & Co. Pty. Ltd.		SCALE	PASSED	DATE
		Full size		11/4/79
SOUND SYSTEM ASSEMBLY (A3)		DRAWN	A.PENDER	DRAWING NUMBER
		TRACED		HD 1009/1
		CHECKED		

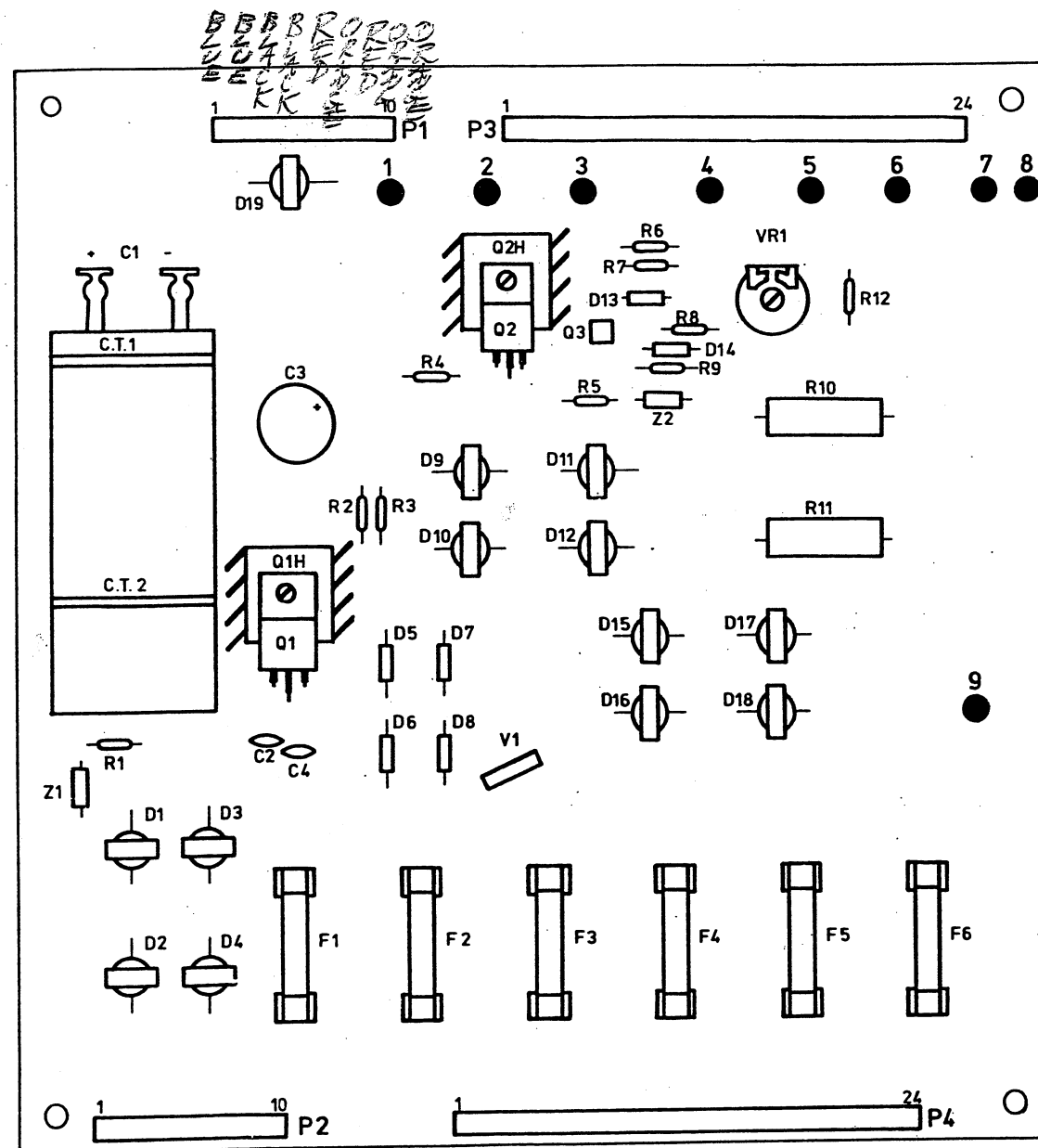
26/11/79	1	IC1 CORRECTED. IC14 NOW EPROM.
		IC6 NOW 74LS161.
DATE	REV. N°	REVISION



A4	DISPLAY BOARD (COMPLETE)	-		
PCB	A4/2 PRINTED CIRCUIT BOARD	1	EA130	
IC1	XR-6118 DISPLAY DRIVER	1	EE540	
IC2	MC14543 BCP BCD - 7SEG LAT/DEC/DRIV	1	EE430	
IC3	MC14011 BCP QUAD 2 INPUT NAND	1	EE380	
IC4	" " " "	1	"	
IC5	" " " "	1	"	
IC6	XR-6118 DISPLAY DRIVER	1	EE540	
R1	10K Ω , $\frac{1}{4}$ W, 5% RESISTOR	1	ER340	
C1	0.01 μ F 100V CERAMIC CAPACITOR	1	EC185	
C2	0.01 μ F 25V " "	1	EC180	
C3	330pF 25V " "	1	EC120	
C4	0.01 μ F 100V " "	1	EC185	
C5	0.01 μ F 25V " "	1	EC180	
C6	1 μ F 100V RT ELECTROLYTIC CAPACITOR	1	EC510	
DS1	6-JS-01 6 DIGIT FLUORESCENT DISPLAY	1	EG100	
P1	M2373-10 RIGHT ANGLE WAFER	2	EJ560	
TP 1-5	WIRE TEST POINT LOOP	5	EG900	
ITEM	DESCRIPTION	REQ'D	PART N°	REMARKS
A. Hankin & Co. Pty. Ltd.		SCALE	PASSED	DATE
		Full size		3/4/79
DISPLAY ASSEMBLY (A4)		DRAWN	A. FENDER	DRAWING NUMBER
		TRACED		HD 1008/1
		CHECKED		

9/1/80	1	C2 & C5 NOW 0.01 μ F.
DATE	REV. N°	REVISION

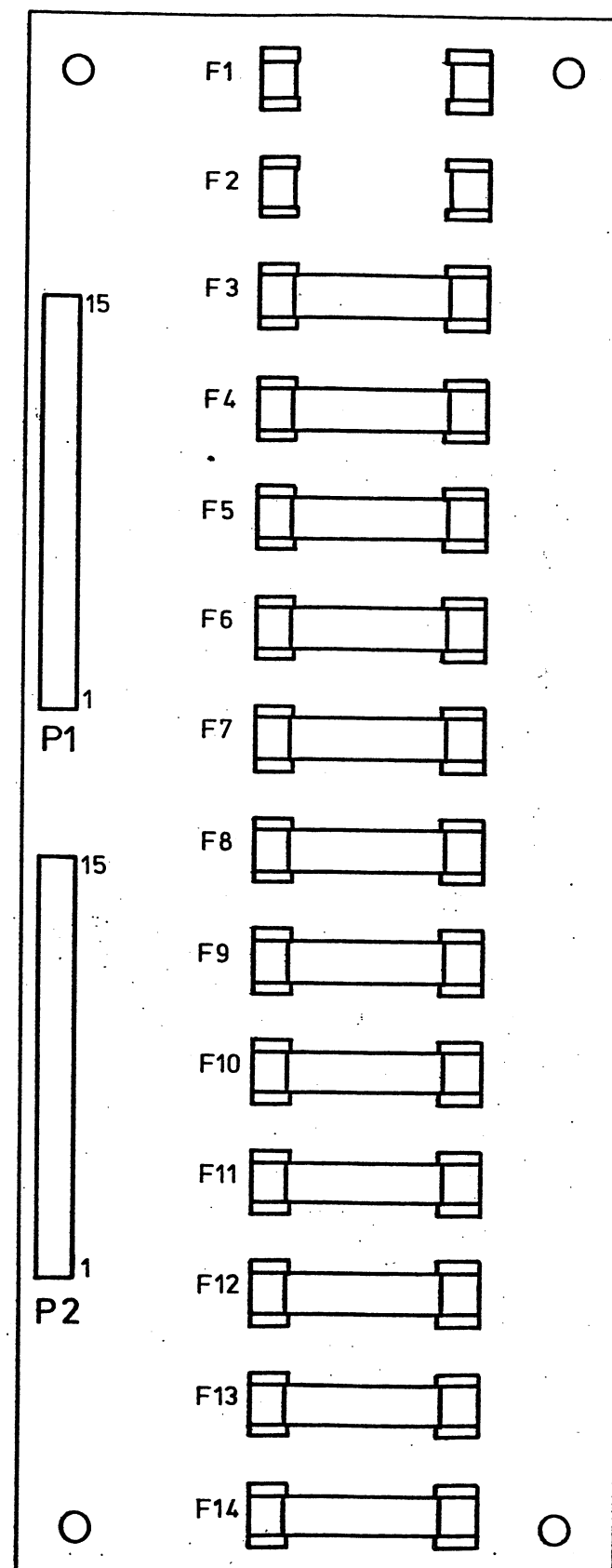
1000UF 25V X2
470UF 25V X1
220UF 80V X1



A5	POWER SUPPLY (COMPLETE)	-		
PCB	A5/3 PRINTED CIRCUIT BOARD	1	EP140	
P1	M2402-10 STANDARD WAFER	1	EJ210	
P2	M2402-10 "	1	"	
P3	M2402-12 "	2	EJ230	
P4	M2402-12 "	2	"	
	1397-01-28 PC MOUNTING FUSE CLIP	12	EG300	
ITEM	DESCRIPTION	REQ'D	PART N°	REMARKS

C1	10000uF ELECTROLYTIC CAPACITOR 25V 5G	1	EC570	
C2	0.1uF CERAMIC CAPACITOR 63V	1	EC200	
C3	220uF ELECTROLYTIC CAPACITOR 80V RB	1	EC540	
C4	0.1uF CERAMIC CAPACITOR 63V	1	EC200	
Z1	1N5344B 8.2V 2.5W ZENER DIODE	1	EF230	
Z2	1N53F9B 24V 2.5W "	1	EF240	
D1	MR751 100V 6A DIODE	1	EF220	
D2	"	1	"	
D3	"	1	"	
D4	"	1	"	
D5	1N4004 400V 1A SILICON DIODE	1	EF200	
D6	"	1	"	
D7	"	1	"	
D8	"	1	"	
D9	MR751 100V 6A DIODE	1	EF220	
D10	"	1	"	
D11	"	1	"	
D12	"	1	"	
D13	1N4004 400V 1A SILICON DIODE	1	EF200	
D14	"	1	"	
D15	MR751 100V 6A DIODE	1	EF220	
D16	"	1	"	
D17	"	1	"	
D18	"	1	"	
D19	"	1	"	
R1	680 OHM 1/4 W 5% RESISTOR	1	ER210	
R2	39 "	1	ER130	
R3	39 "	1	"	
R4	4K7 "	1	ER300	
R5	6K8 "	1	ER320	
R6	2K2 "	1	ER260	
R7	18 "	1	ER120	
R8	10K "	1	ER340	
R9	2.7 "	1	ER100	
R10	R6B5YL 270J 270 OHM 5W 10% RESISTOR	1	ER600	
R11	R6B5YL 22J 22 "	1	ER610	
R12	2K7 " 1/4 W 5% RESISTOR	1	ER270	
VR1	PT15V(12.5) 1K TRIM POT (SCREW SLOT)	1	ER700	
V1	V100ZA15 100V 15Joule VARISTOR	1	EF600	
Q1H	TV5 HEATSINK	2	EJ920	
Q2H	1/8" x 5/16" RHMT	2		
	1/8" MACHINED NUT	2		
	1/8" SHAKEPROOF WASHER	2		
Q1	MC7805CT POSITIVE 5V REGULATOR	1	EF500	
Q2	2N6290 45V 8A NPN TRANSISTOR	1	EF120	
Q3	BC237 50V 200mA NPN TRANSISTOR	1	EF100	
F1	3A 3AG FUSE	1	EG340	
F2	250mA "	1	EG320	
F3	5A S/B "	1	EG361	
F4	10A "	1	EG370	
F5	15A "	1	EG380	
F6	1A "	1	EG330	
T.P.1-9	WIRE TEST POINT LOOP	9	EG900	
CT.1&2	PLT2M 2.5mm x 200mm NYLON CABLE TIE	2	EP700	
ITEM	DESCRIPTION	REQ'D	PART N°	REMARKS
A. Hankin & Co. Pty. Ltd.		SCALE		PASSED
		Full size		DATE
				28/5/79
POWER SUPPLY ASSEMBLY (A5)		DRAWN	A.P.	DRAWING NUMBER
		TRACED		
		CHECKED		
				HD1021/1

17/10/79	1	F1 RATING CHANGED
DATE	REV. N°	REVISION



A6	FUSE CARRIER (COMPLETE)	—		
PCB	A6/3 PRINTED CIRCUIT BOARD	1	EP150	
F1	—			N/U
F2	—			N/U
F3	5A 3AG FUSE	1	EG360	TOP 3 DROP TARGET
F4	3A "	1	EG350	BUMPER LAMPS
F5	5A "	1	EG360	MIDDLE BUMPER
F6	" "	1	"	RIGHT SLINGSHOT
F7	" "	1	"	GROTTO
F8	" "	1	"	LEFT TOP BUMPER
F9	3A "	1	EG350	OUTHOLE
F10	5A "	1	EG360	RIGHT TOP BUMPER
F11	" "	1	"	LEFT SLINGSHOT
F12	3A "	1	EG350	KNOCKER SUPPLY
F13	5A "	1	"	BTM. 3 DROP TARGET
F14	5A "	1	EG360	2 DROP TARGET
P1	M2402-15 STANDARD WAFER	1	EJ220	
P2	M2402-15 "	1	"	
	1397-01-28 PCB MOUNTED FUSE CLIP (3AG)	28	EG300	
ITEM	DESCRIPTION	REQ'D	MATERIAL	REMARKS
A. Hankin & Co. Pty. Ltd.		SCALE		PASSED
		FULL SIZE		DATE
		DRAWN		A.P.
		TRACED		
		CHECKED		
		DRAWING NUMBER		
		HD1075		

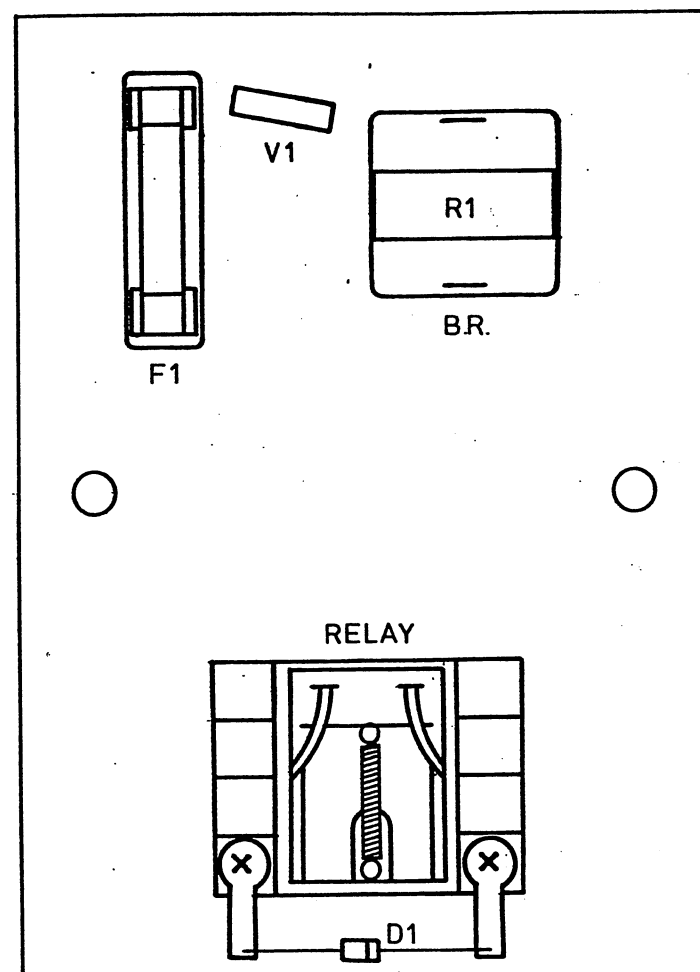
SHARK FUSE CARRIER
ASSEMBLY (A6)

DRAWN
TRACED
CHECKED

A.P.

DRAWING NUMBER

HD1075



A8	FLIPPER BOOSTER (COMPLETE)			
RELAY	LY2 2 POLE RELAY - 24V DC COIL	1	EG120	
RLY.BS	PTF08 SCREW MOUNTED RELAY BASE	1	EG131	
B.R.	MDA2504 BRIDGE RECTIFIER	1	EG133	
R1	2K2 Ω 5W 5% RESISTOR	1	ER615	
V1	V100ZA15 100V 15 JOULE VARISTOR	1	EF600	
D1	IN4005 SILICON DIODE	1	EF200	
F1	15A 3AG FUSE	1	EG380	
	SCREW MOUNTED 3AG FUSE HOLDER	1	EG315	
	1397-01-28 PCB MOUNT FUSE CLIP (3AG)	2	EG300	
ITEM	DESCRIPTION	REQ'D	PART N°	REMARKS
A. Hankin & Co. Pty. Ltd.		SCALE		PASSED
		FULL SIZE		DATE
				2/7/80
FLIPPER BOOSTER ASSEMBLY (A8)		DRAWN	A.P.	DRAWING NUMBER HD1086
		TRACED		
		CHECKED		