

NOVAG INDUSTRIES LIMITED

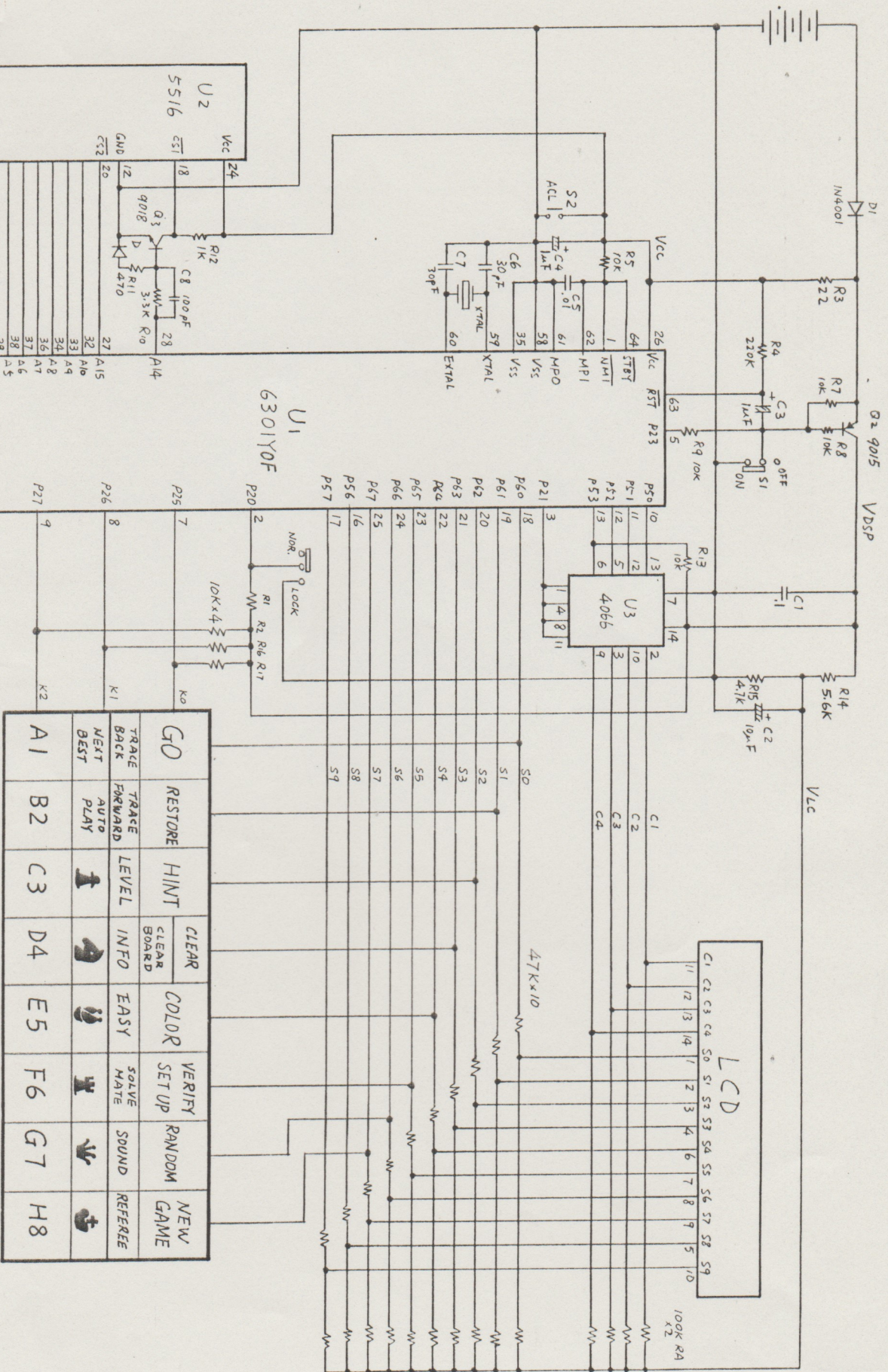
=====

V.I.P. (ART NO. 872)

SERVICE MANUAL

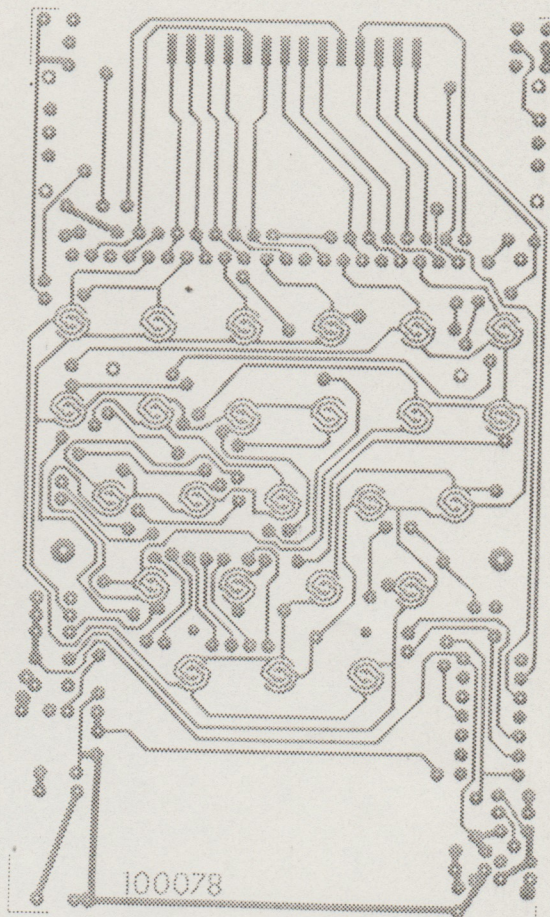
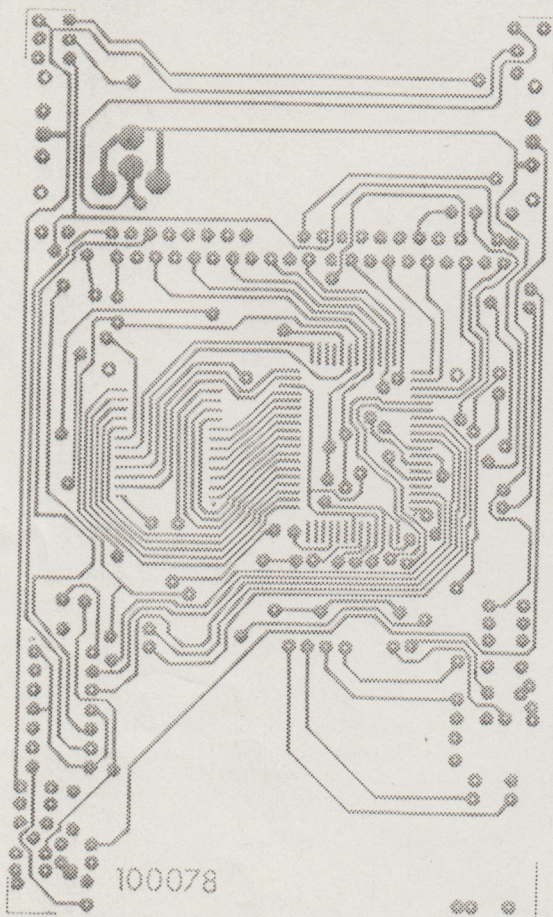
C O N T E N T S

1. Schematic Diagram
2. PCB Layout
3. Parts List



GO	RESTORE	HINT	CLEAR	COLOR	VERIFY	RANDOM	NEW
TRACE	TRACE	LEVEL	CLEAR	EASY	SET UP	SOUND	GAME
BACK	FORWARD		BOARD		SOLVE		
BEST	PLAY		INFO		MATE		
A1	B2	C3	D4	E5	F6	G7	H8

MODEL: VIP
Schematic Diagram



2. PCB LAYOUT - #100078

BILL OF MATERIALSMODEL : V.I.P. (872)A) ASSEMBLY : MAIN PCB

<u>ITEM</u>	<u>NVG P/N</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT PRC</u> <u>(US\$)</u>
1	010022	CPU -872	1	16.00
2	030015	4066	1	0.42
3	030057	4051	1	0.70
4	070051	Cmos Ram 449G	1	5.00
5	100078	PCB -Double side	1	2.50
6	130017	Slide Switch	2	0.10
7	150012	Resistor Array 100Kx7	2	0.20
8	150013	Resistor Array 47Kx8	2	0.20
9	180007	8Mhz Crystal	1	1.00
10		Transistor 9015C	1	0.10
11		Transistor 9018G	1	0.10
12		Diode 1N4001	1	0.20
13		Diode 1N4148	1	0.10
14		Mini E. Cap 1 UF/16V	2	0.10
15		Mini E. Cap 10 UF/16V	1	0.10
16		C. Cap 12PF	2	0.01
17		C. Cap 100PF	1	0.01
18		C. Cap 0.01 UF	1	0.01
19		C. Cap 0.1 UF/16V	1	0.01
20		Foam Pad 10x10mm	1	0.01

cont'd /2

V.I.P. (872)

page 2 cont'd

A) ASSEMBLY : MAIN PCB

<u>ITEM</u>	<u>NVG P/N</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT PRC</u> <u>(US\$)</u>
21		Jumper Wire 220mm "Red"	1	0.01
22		Jumper Wire 220mm "Black"	1	0.01
23		Jumper Wire 220mm "White"	2	0.01
24		Resistor 1/4W 22 Ohm	1	0.01
25		Resistor 1/4W 470 Ohm	3	0.01
26		Resistor 1/4W 1.0 K Ohm	1	0.01
27		Resistor 1/4W 3.3 K Ohm	1	0.01
28		Resistor 1/4W 4.7 K Ohm	1	0.01
29		Resistor 1/4W 5.6 K Ohm	1	0.01
30		Resistor 1/4W 10.0 K Ohm	6	0.01
31		Resistor 1/4W 47.0 K Ohm	5	0.01
32		Resistor 1/4W 220.0 K Ohm	1	0.01

B) ASSEMBLY : HOUSING

<u>ITEM</u>	<u>NVG P/N</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT PRC</u> <u>(US\$)</u>
1	060007	LCD Display	1	3.50
2	410034	Zebra Connector	1	0.15
3	510026	Rubber Keyboard	1	0.80

cont'd /3

V.I.P. (872)

page 3 cont'd

B) ASSEMBLY : HOUSING

<u>ITEM</u>	<u>NVG P/N</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT PRC</u> <u>(US\$)</u>
4	530120	Battery Plate 1P	2	0.10
5	530121	Battery Terminal 2P	3	0.10
6	600210	Top Housing	1	0.60
7	600211	Bottom Housing	1	0.50
8	600212	Battery Door	1	0.10
9	800023	Overlay - LCD	1	0.10
10		Screw P3x8 TA	2	0.01
11		27mm Buzzer	1	0.50
12		Battery Label	1	0.10

C) ASSEMBLY : PACKING

<u>ITEM</u>	<u>NVG P/N</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT PRC</u> <u>(US\$)</u>
		<u>1. Chessboard-</u>		
1	520038	Chess Pcs Set	1	0.80
2	530118	Metal Inlay A	1	] 0.50
3	530119	Metal Inlay B	1	
4	600215	Chessboard - R	1	] 0.70
5	600216	Chessboard - L	1	

cont'd /4

V.I.P. (872)

page 4 cont'd

C) ASSEMBLY : PACKING

<u>ITEM</u>	<u>NVG P/N</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT PRC</u> <u>(US\$)</u>
6	800025	Overlay - L	1	]
7	800026	Overlay - R	1	] 0.35
8		Polybag - Chessboard	1	0.10
<u>2. Unit-</u>				
9		Back Label w/serial no.	1	0.10
10		Polybag - unit	1	0.10
11	520035	Sponge - insert	1	0.30
12	520036	Sponge - bottom	1	0.10
13	520041	Sponge - face	1	0.10
14	530129	Name Plate	1	0.10
15	600213	Case	1	]
16	600214	Case Lock	1	] 0.70
17		Polybag - case	1	0.15
18	970184	Instruction Manual	1	0.30
19	980001	Warranty Card	1	0.10
20	990121	Gift Box	1	0.65
