BUSINESS & LEISURE MICROCOMPUTERS
16, The Square, Kenilworth. CV8 1EB Tel: Kenilworth (0926) 512127

# INSTRUCTIONS — KENILWORTH CASE

Issue 4

The Kenilworth Case comprises the parts listed below. Check against this list before starting assembly. All screws in wood must first have a small pilot hole drilled in the correct location. As assembly proceeds, some stages will be found easier if the wooden parts are temporarily removed. Because of this do not tighten any screws until initial assembly is complete. IMPORTANT:- Fit and tighten screws for TOP in sequence from the rear to the front.

## PARTS LIST

| Quantity | | Item | Size | Use |
|---|---|---|---|---|
| 1 | ( ) | ALUMINIUM TRIM | | Trim (see Note 1 below) |
| 2 | ( ) | SIDE | LH & RH | Wooden side supports |
| 1 | ( ) | BASE | | Metal base (Plastic inside for insulation) |
| 1 | ( ) | TOP | | Metal top |
| 1 | ( ) | BACK | | Metal back for sockets etc. |
| 1 | ( ) | HEATSHIELD | | Protect RH SIDE from power supply heat |
| 6 | ( ) | Screw | M4x6 | Transformer(4), Earth tags(2) |
| 4 | ( ) | Screw | M4x20 | Keyboard fixings |
| 10 | ( ) | Washer | M4 | All M4 fixings |
| 10 | ( ) | Nut | M4 | All M4 fixings |
| 8 | ( ) | Spacer | M4x12.7 | Keyboard(4), power supply unit(4) |
| 3 | ( ) | Earth tag | M4 | Earth BASE, TOP, and BACK to each other |
| 3 | ( ) | Screw | M3x10 | Main board (all, except by LSW 1) |
| 2 | ( ) | Screw | M3x20 | Main board (by LSW 1), Terminal block(1) |
| 4 | ( ) | Washer | M3 | Main board |
| 5 | ( ) | Nut | M3 | All M3 fixings |
| 4 | ( ) | Plastic spacer | | Between Main board and Base |
| 4 | ( ) | Woodscrew | No.4x1" | Power supply unit and heatshield |
| 6 | ( ) | Spacer | M3x4 | Heatshield to RH SIDE, Main board (LSW1) |
| 18 | ( ) | Woodscrew | No.6x1/2" | TOP, BASE and BACK to SIDES |
| 1 | ( ) | Terminal Block | | Mains In, Neutral, Mains Out (eg. Fan) |
| 2 | ( ) | Grommet | | Mains In, Cassette Out |
| 1 | ( ) | Toggle Switch | | Mains On/Off switch |
| 1 | ( ) | Push-button Switch | | Reset switch |
| 4 | ( ) | Feet | | Fit to BASE |
| 1 | ( ) | Wire, Green/Yellow | | Earth bonding |
| 1 | ( ) | Wire, Red | | Psu (+5 Volts) |
| 1 | ( ) | Wire, Pink | | Psu (+12 Volts) |
| 1 | ( ) | Wire, Purple | | Psu (-12 Volts) |
| 1 | ( ) | Wire, Black | | Psu ( 0 Volts) |
| 1 | ( ) | Wire, Orange | | Reset switch |
| 1 | ( ) | Wire, Blue | | Mains (neutral), psu (-5 Volts) |
| 1 | ( ) | Wire, Brown | | Mains (live) |
| 6 | ( ) | Sleeve, small | | Mains transformer |
| 2 | ( ) | Sleeve, large | | Mains On/Off switch |

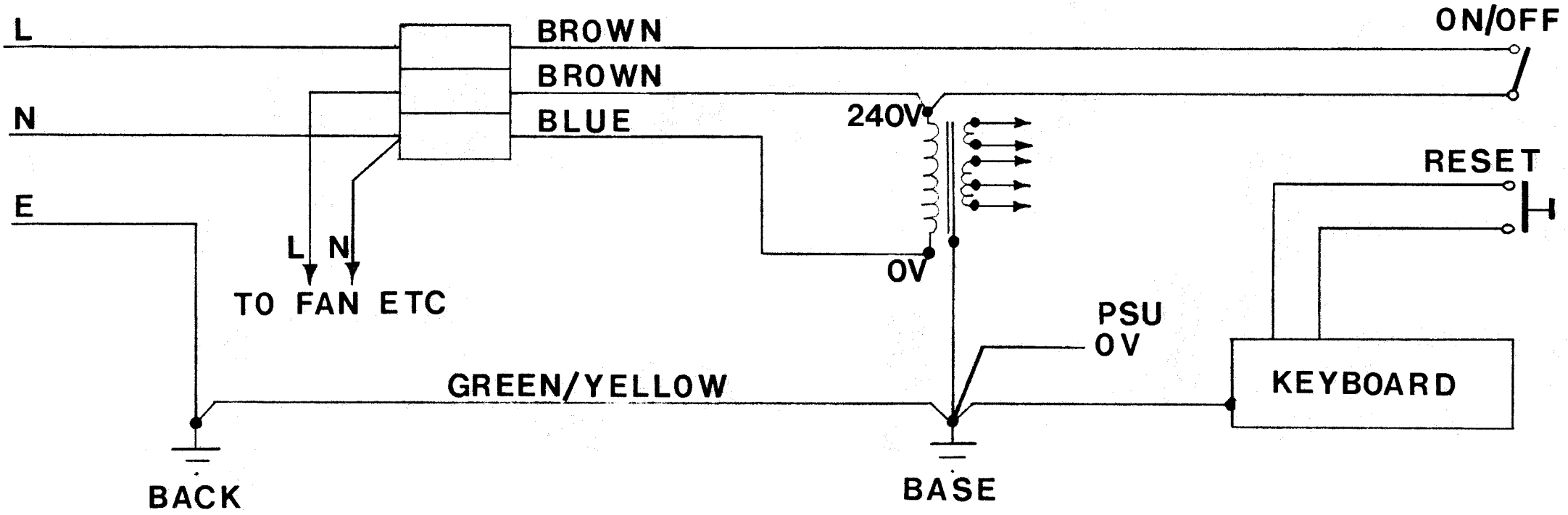
< IMPORTANT NOTE!>
< FOR YOUR SAFETY>
< INSULATE ALL MAINS>
< TAGS & CONNECTIONS>

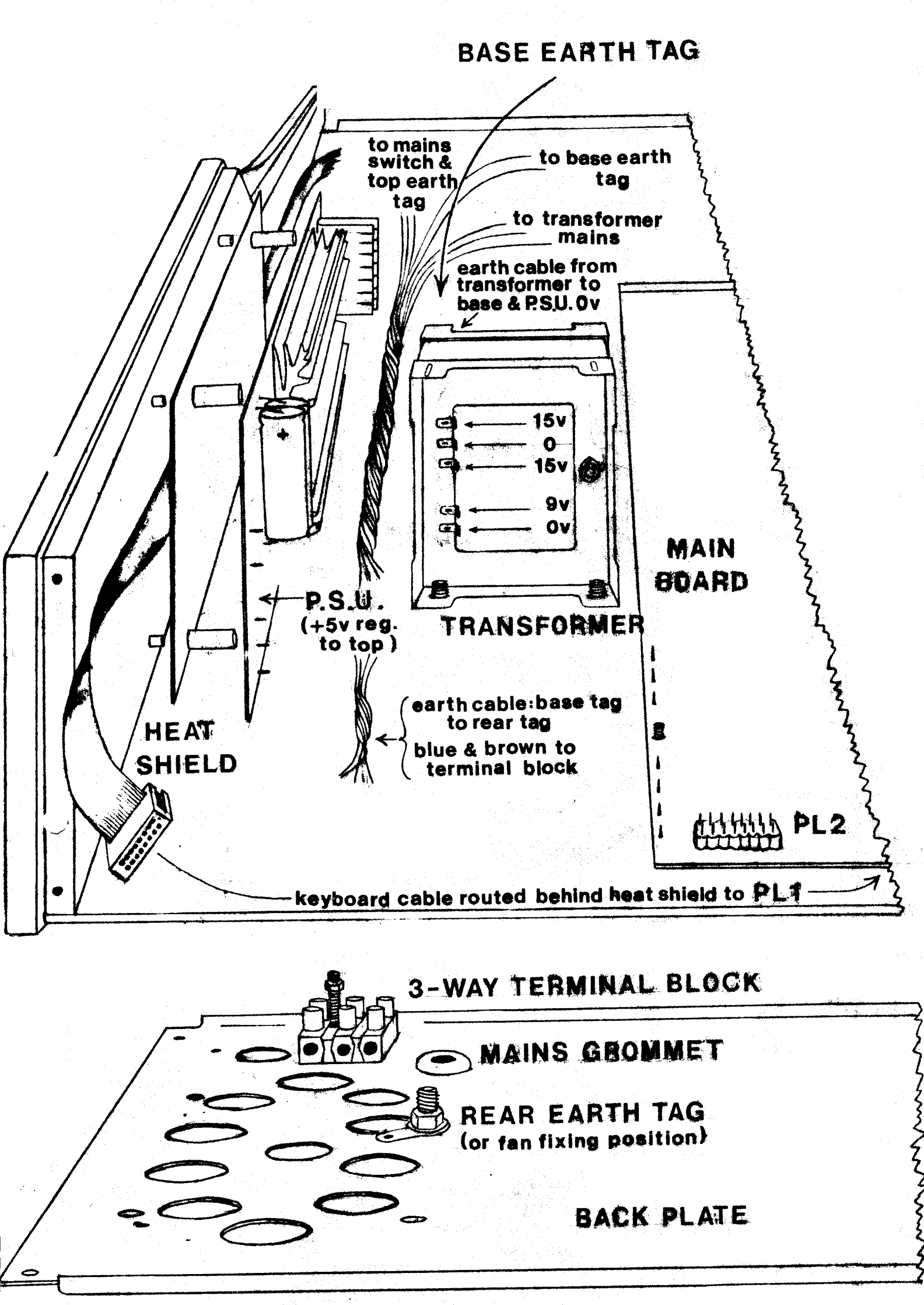
## ASSEMBLY

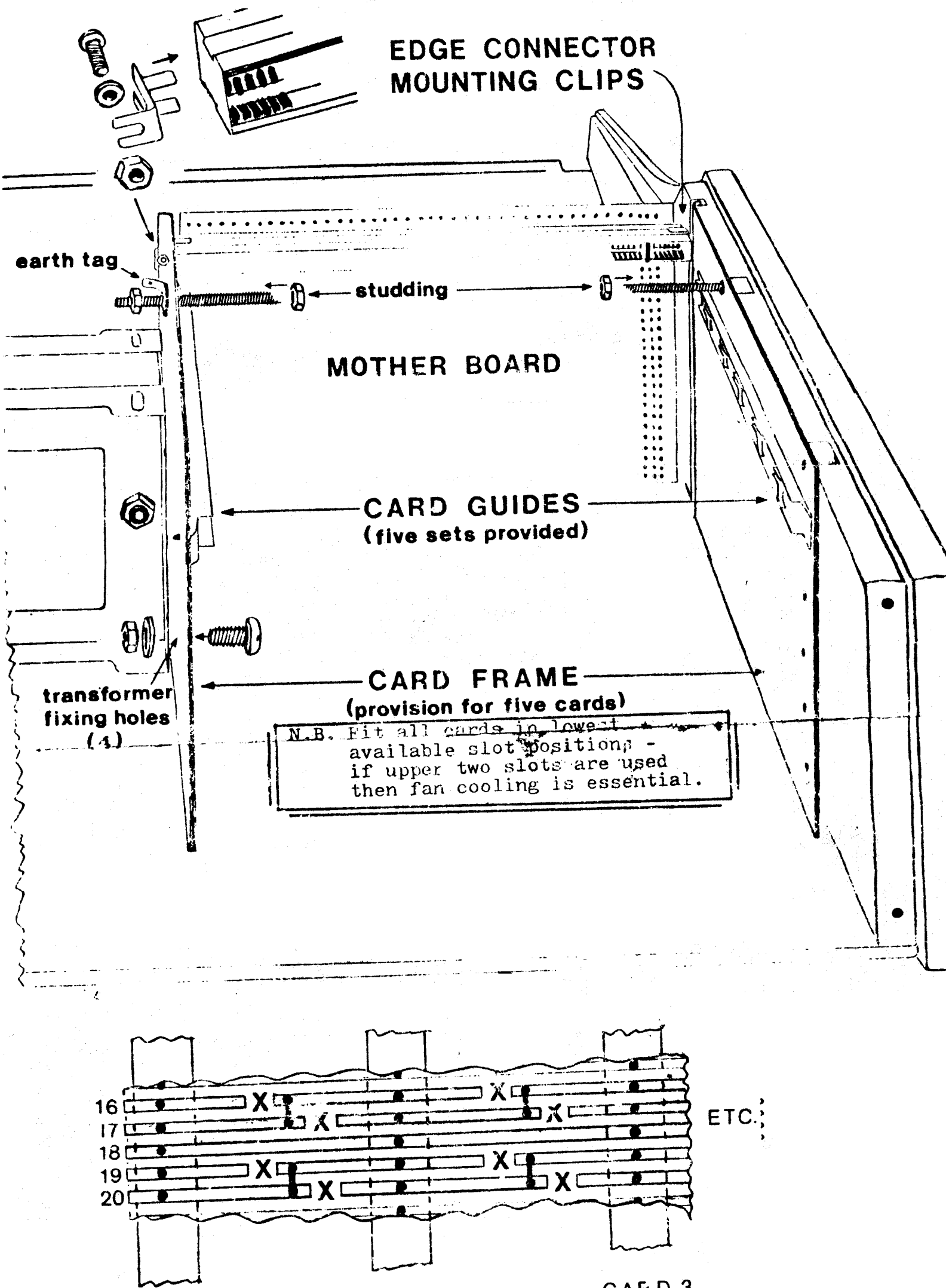
Assemble the parts and wire as shown in the circuit diagram. Scrape off the paint below all screws used for the Earth tags (earth the TOP via a Keyboard fixing). When wiring, leave sufficient length to allow the TOP and the BACK to be lifted completely clear of the SIDES without straining any wires. Untidy wiring may cause damage to the Nascom so carefully tape or twist all wires and route them as indicated on the diagram. Take care to insulate the mains switch and transformer with the rubber sleeves (lubricating with saliva may ease assembly).

Note 1:- The Aluminium Trim may be used to allow custom labelling and/or extra front panel switches to be fitted and labelled using Letraset or similar lettering. To allow sufficient rear of panel clearance most switches must be mounted below the centre line of the trim (eg. midway between "Kenilworth" and the edge of the trim).

Note 2:- If more than one "add-on" board is to be fitted then the optional 5-Card Frame should be fitted. However, if only one board (plus main board) is to be used then the 2-Card Fitting kit should be used (see separate instructions for whichever is used). On the Main board near LSW1 use two M3x4 spacers above the board with the M3x20 screw to clear LSW1.


L
N
E
BROWN
BROWN
BLUE
ON/OFF
240V
0V
RESET
L N
TO FAN ETC
PSU
0V
GREEN/YELLOW
KEYBOARD
BACK
BASE


BASE EARTH TAG
to mains switch & top earth tag
to base earth tag
to transformer mains
earth cable from transformer to base & P.S.U. 0v
15v
0
15v
9v
0v
MAIN BOARD
P.S.U. (+5v reg. to top)
TRANSFORMER
earth cable: base tag to rear tag
blue & brown to terminal block
HEAT SHIELD
PL2
keyboard cable routed behind heat shield to PL1
3-WAY TERMINAL BLOCK
MAINS GROMMET
REAR EARTH TAG (or fan fixing position)
BACK PLATE


EDGE CONNECTOR
MOUNTING CLIPS
earth tag
studding
MOTHER BOARD
CARD GUIDES
(five sets provided)
CARD FRAME
(provision for five cards)
transformer
fixing holes
(4)
N.B. Fit all cards in lowest
available slot positions -
if upper two slots are used
then fan cooling is essential.


16
17
18
19
20
ETC.
MAIN
BOARD
CARD 2
CARD 3

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# INSTRUCTIONS — KENILWORTH CASE,

# OPTIONAL CARD FRAME

Issue 2

The Kenilworth Case (Card Frame) comprises the parts listed below. Check against this list before starting assembly. All screws in wood must first have a small pilot hole drilled in the correct location. As assembly proceeds, some stages will be found easier if the wooden parts are temporarily removed. Because of this do not tighten any screws until initial assembly is complete.

## PARTS LIST

| Quantity | Item | Size | Use |
|---|---|---|---|
| 2 ( ) | GUIDE-SUPPORT RH/LH | | Metal side supports |
| 10 ( ) | Guide | | Supports for circuit cards |
| 1 ( ) | Motherboard | | Connections between edge connectors |
| 10 ( ) | Clips | | Fixing edge connectors (Note:- Edge connectors are supplied with each Nasbus card, so are not included.) |
| 10 ( ) | Screw | M3x6 | Fixing clips to RH & LH |
| 10 ( ) | Nut | M3 | Fixing clips |
| 10 ( ) | Washer | M3 | Fixing clips |
| 1 ( ) | Studding | M4 | Fixing RH to LH |
| 4 ( ) | Screw | M4x10 | Fixing RH to transformer |
| 4 ( ) | Washer | M4 | Fixing RH to transformer |
| 8 ( ) | Nut | M4 | All M4 fixings |
| 1 ( ) | Earth tag | M4 | Earth RH to BASE |
| 3 ( ) | Woodscrew | No.6x1/2" | Fixing LH to SIDE |
| 1 ( ) | Wire, solid core | | Daisy chain connections |
| 1 ( ) | Wire, green-yellow | | Earth connection |

## WIRING

Wire the edge connectors as normal, but note that "daisy chaining" is necessary if more than one expansion card is to be fitted. Nasbus lines 16 (BAI) and 17 (BAO) are used to provide a "daisy chain" Bus Acknowledge signal for priority bus control. Nasbus lines 19 (IEI) and 20 (IEO) form a "daisy chain" connection for Interupt Priority Control. On the Motherboard, the bus tracks must be cut between each edge connector to allow these lines to be used. (Any card that does not use these signals will be seen to have the lines linked together. For example see a RAM card.) Normally the main board will be fitted at the top of the case with successive priority cards below it. This however can be varied if desired. Referring now to the wiring diagram, the tracks must be cut with a drill at the points marked with an X and the links added to the Motherboard as shown. Earth the card frame to the nearby earth tag on the Base.