

## 6809 CPU Board (74S470) BOM

| RefDes                | Value              | Description                                    | Notes                               | Supplier Part No.  | Quantity |
|-----------------------|--------------------|------------------------------------------------|-------------------------------------|--------------------|----------|
| C1                    | 22uF/16V           | Electrolytic capacitor (axial)                 |                                     |                    | 1        |
| C2-6                  | 100n               | Ceramic capacitor                              |                                     |                    | 5        |
| C7,8                  | 24p                | Ceramic capacitor                              |                                     |                    | 2        |
| C9                    | optional           |                                                |                                     |                    | 1        |
| IC1                   | 6809               | 8-bit processor                                | Caution IC1 and 2 are upside down ! |                    | 1        |
| IC2                   | 6522               | PIA                                            |                                     |                    | 1        |
| IC3,7-9               | 74LS244            | Octal 3-state Buffer/Line Driver/Line Receiver |                                     |                    | 4        |
| IC4                   | 2716/2732          | 2K/4K x 8-bit EPROM                            |                                     |                    | 1        |
| IC5,6                 | 2114               | 1K x 4-bit SRAM                                |                                     |                    | 2        |
| IC10                  | DP8304             | 8-bit 3-state bidirectional transceiver        |                                     |                    | 1        |
| IC11                  | 74S470             | 256 x 8-bit PROM fusible link PROM o/c outputs |                                     |                    | 1        |
| IC12                  | 74LS74             | Dual D-type flip-flop                          |                                     |                    | 1        |
| IC13,14               | 74LS00             | Quad 2-input NAND gate                         |                                     |                    | 2        |
| IC15                  | 74LS86             | Quad 2-input XOR gate                          |                                     |                    | 1        |
| LK1                   | Wire link          | Connects Keyboard Strobe to CB1                | Normally made for CB1               |                    | 1        |
| LK2                   | Wire link          | Connects Keyboard Strobe to PB7                | Normally open for CB1               |                    | 1        |
| LK3                   | Wire link          | Connects CASIN to PB7                          | Normally made for PB7               |                    | 1        |
| LK4                   | Wire link          | Connects CASIN to PA7                          | Normally open for PB7               |                    | 1        |
| LK5                   | Wire link          | Selects 2716/2732                              | Normally open for 2716              |                    | 1        |
| LK6                   | Wire link          | Selects 2716/2732                              | Normally made for 2716              |                    | 1        |
| LK7                   | Wire link          | Selects 2716/2732                              | Normally open for 2716              |                    | 1        |
| LK8                   | Wire link          | Selects 2716/2732                              | Normally open for 2716              |                    | 1        |
| PL1                   | 20-way             | 3M header                                      | for Keyboard                        |                    | 1        |
| PL2                   | 26-way             | Pin header                                     | for Printer                         |                    | 1        |
| PL3                   | DIN41612 AB 64-way | Right angle plug                               | for backplane                       |                    | 1        |
| R1-3                  | 1K0                | Resistor 250mW                                 |                                     |                    | 3        |
| R4-9                  | 560R               | Resistor 250mW                                 |                                     |                    | 6        |
| R10-15                | 3K3                | Resistor 250mW                                 |                                     |                    | 6        |
| XTAL                  | 4MHz HC49u         | Crystal                                        |                                     |                    | 1        |
| IC12-15               | 14-pin             | DIL socket                                     |                                     |                    | 4        |
| IC5,6                 | 18-pin             | DIL socket                                     |                                     |                    | 2        |
| IC3,7-9,10,11         | 20-pin             | DIL socket                                     |                                     |                    | 6        |
| IC4                   | 24-pin             | DIL socket                                     |                                     |                    | 1        |
| IC1,2                 | 40-pin             | DIL socket                                     |                                     |                    | 2        |
| PCB                   |                    |                                                |                                     |                    |          |
| <b>Offboard Parts</b> |                    |                                                |                                     |                    |          |
|                       | SHP 3U             | Front panel with handle and fittings           |                                     | Verotec 957-235349 | 1        |
|                       |                    | Panel brackets                                 | or print your own                   | Verotec 173-12525  | 2        |
|                       | M2.5 x 10mm        | Pan head screws                                |                                     |                    | 4        |
|                       | M2.5               | Nuts                                           |                                     |                    | 4        |