

# RATA UPGRADE DATA SHEET

## QUAD 44 UPGRADE

### STAGE 1

Fit 5A mains circuit breaker and eliminate on-off switch.  
Fit 4TCM Powercord MK to IEC plug.  
Replace D402 bridge rectifier with 4 x 11DQ10 Schottky diodes.  
Replace C404 and C405 with 1000uF 25v Elna electrolytics and bypass each with a 0.01uF Kimber Kap.  
Replace C402 and C403 with 100uF 25v Elna Electrolytics and bypass each with a 0.01uF Kimber Kap.

### STAGE 2

Replace all TL071 ICs with AD711 or AD847 (x12). *NB. Do not use high speed IC in position IC700.*  
Replace all TL072 ICs with AD712 or AD827 (x 1).  
Replace internal wire with PSB.

### STAGE 3

Replace electrolytics C3, C4, C702, C703, C603 and C604 with 100uF 1.0v Elna electrolytics.

| COMPONENT LIST                                         | PART NO.  | TOTAL          |
|--------------------------------------------------------|-----------|----------------|
| STAGE 1: 1 x 3 ft 4TCM powercord MK to IEC             | 39-205    | 38.83          |
| 4 x 11DQ10 Schottky diodes                             | 23-102    | 5.00           |
| 2 x 1000uF 25v Elna caps                               | 16-111    | 6.30           |
| 2 x 100uF 25v Elna caps                                | 16-110    | 1.66           |
| 4 x 0.01uF Kimber Kaps                                 | 13-133    | 12.96          |
| 1 x 5A mains circuit breaker                           | 31-108    | 15.00          |
| 1m x Solder                                            | 32-125    | 2.00           |
|                                                        |           | <u>£81.75</u>  |
| STAGE 2: 12 x AD711JN                                  | 23-136    | 18.00          |
| (or AD847JN)                                           | (23-1372) | (66.00)        |
| 1 x AD712JN                                            | 23-137    | 2.50           |
| (or AD827JN)                                           | (23-1371) | (9.50)         |
| 0.3m PSB                                               | 39-106    | 2.48           |
|                                                        |           | <u>£22.98</u>  |
| STAGE 3: 6 x 100uF 10v Elna caps                       | 16-100    | <u>£ 2.64</u>  |
| LABOUR : 4 Hours                                       |           | <u>£100.00</u> |
| <b>TOTAL COST OF STAGES 1, 2, 3, inc. Labour + VAT</b> |           | <b>£243.65</b> |

Prices correct at March 1994.