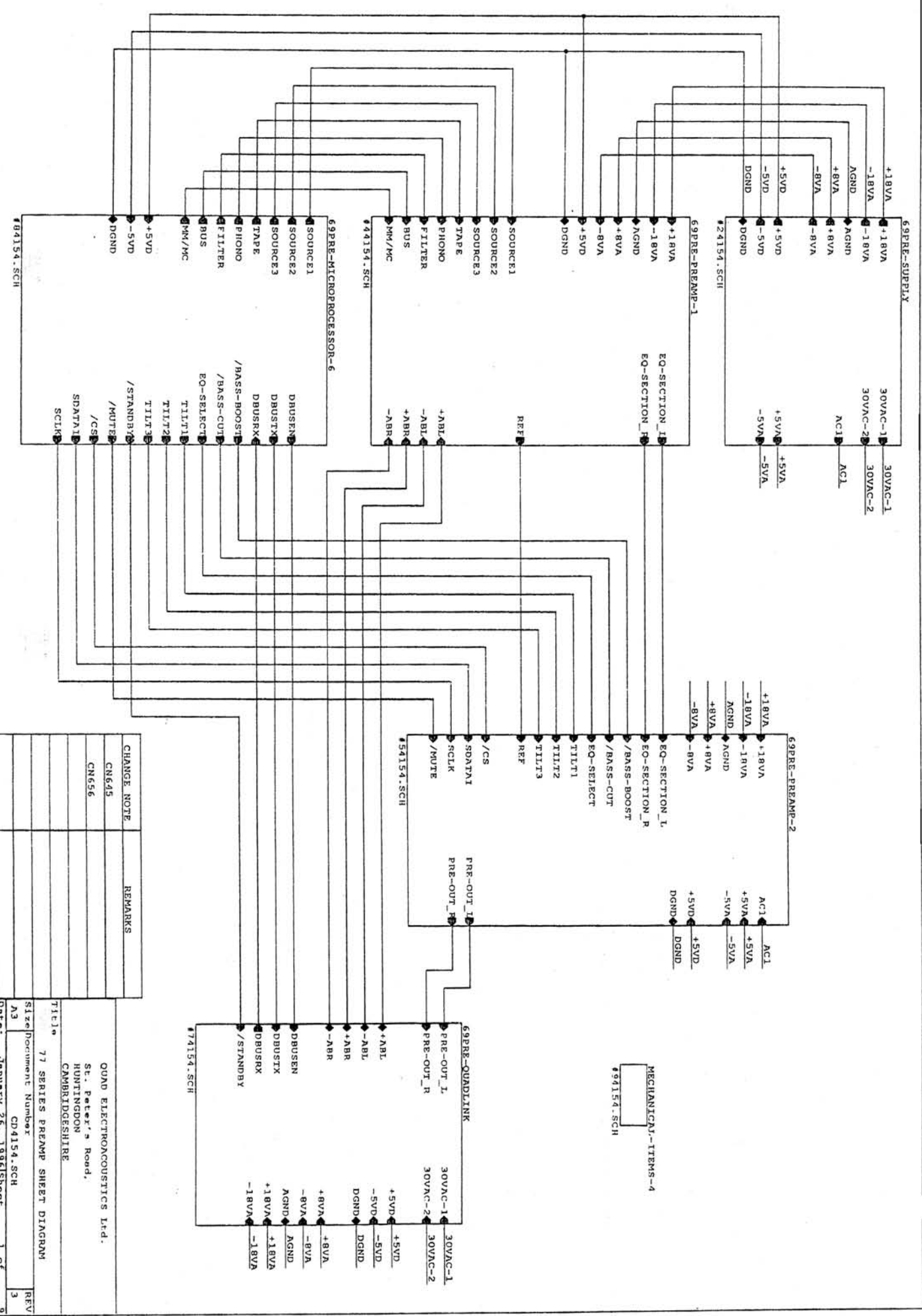
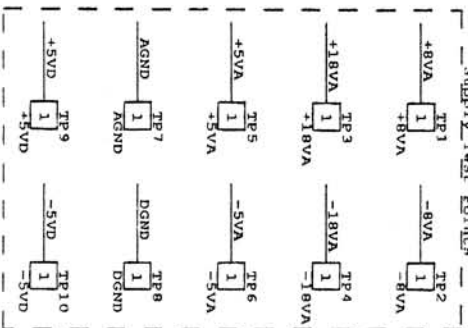
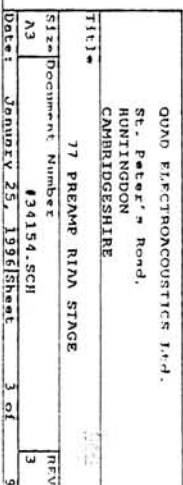


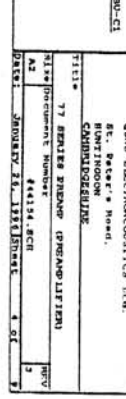


| CHANGE NOTE | REMARKS |
|-------------|---------|
| CN65        |         |
| CN66        |         |

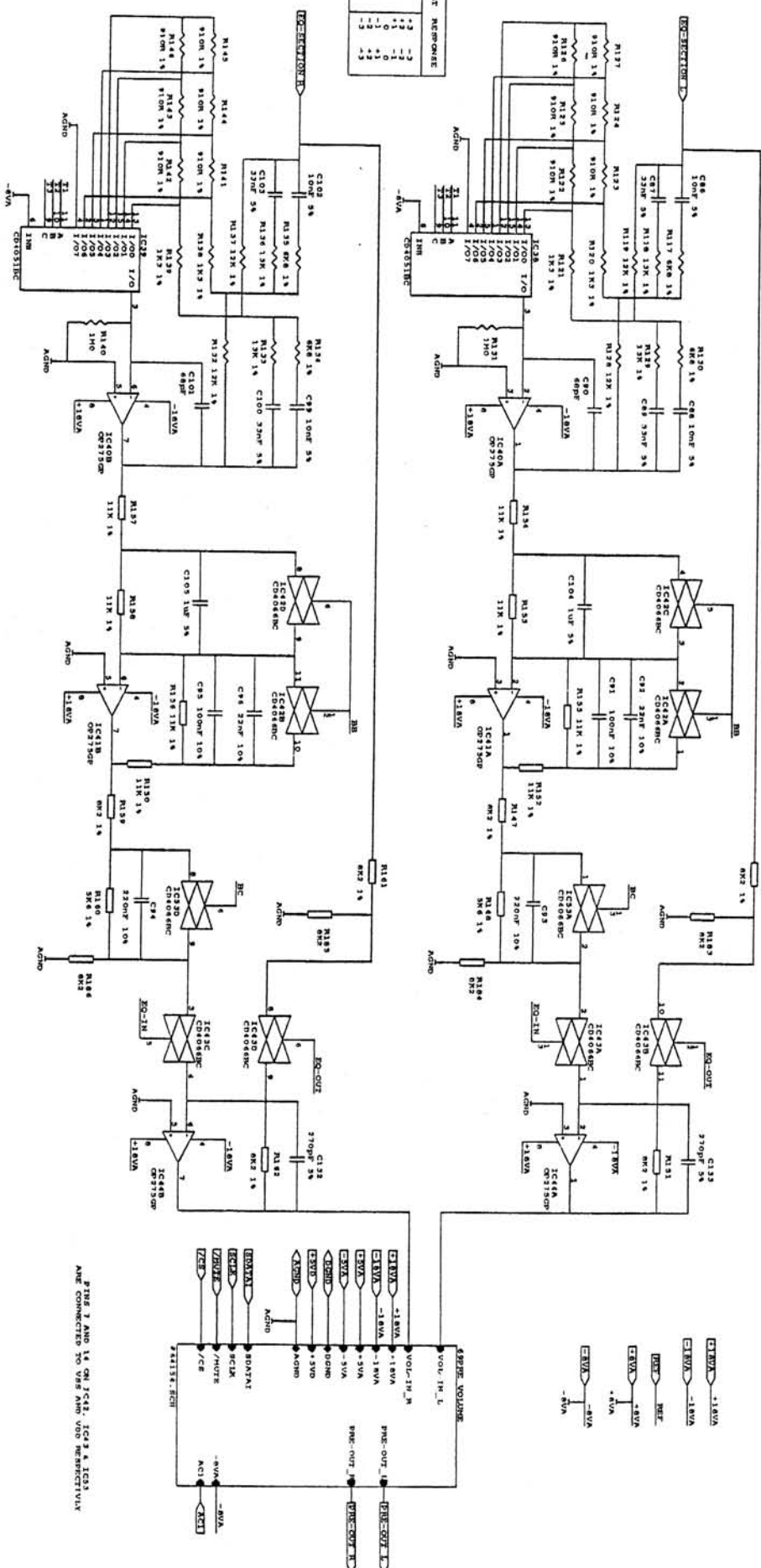
|                                |                  |
|--------------------------------|------------------|
| QUOND ELECTRONACOUSTICS Ltd.   |                  |
| St. Peter's Road,              |                  |
| HUNTINGDON                     |                  |
| CAMBRIDGESHIRE                 |                  |
| TIT 10                         |                  |
| 77 SERIES PREAMP SHEET DIAGRAM |                  |
| Size                           | Document Number  |
| A3                             | CD4154.SCH       |
| Date:                          | January 26, 1998 |
| Sheet                          | 1 of 9           |





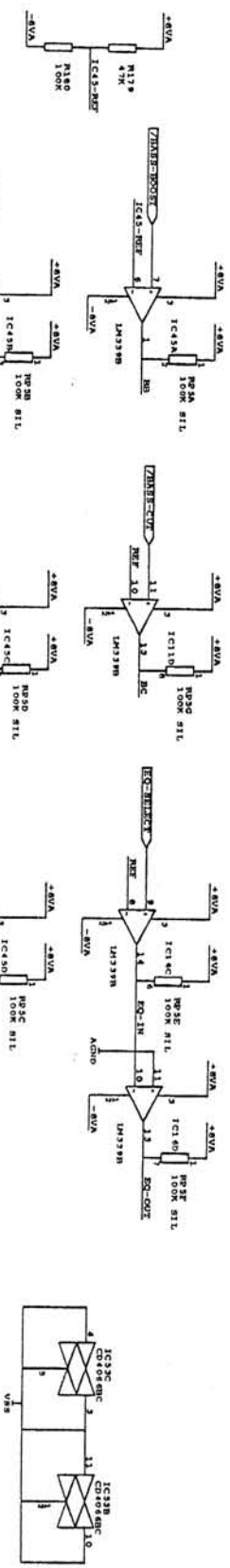


| T3 T2 T1 | TILT RESPONSE                             |                                      |
|----------|-------------------------------------------|--------------------------------------|
|          | 0 0 0<br>0 0 1<br>0 1 0<br>1 0 0<br>1 1 1 | 7 6 5<br>4 3 2<br>1 0 -1<br>-2 -3 -4 |

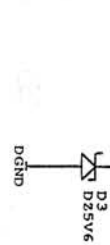
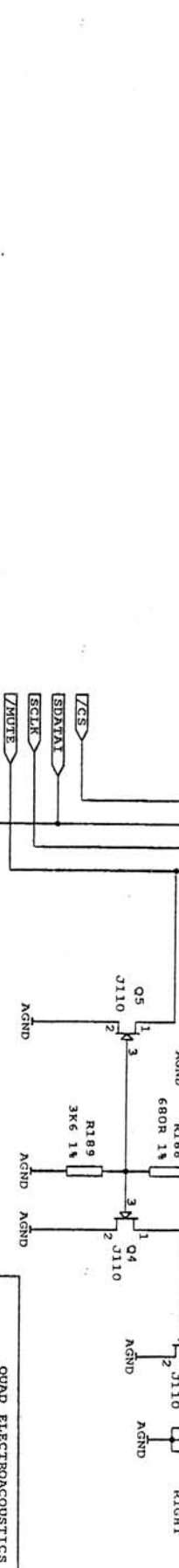
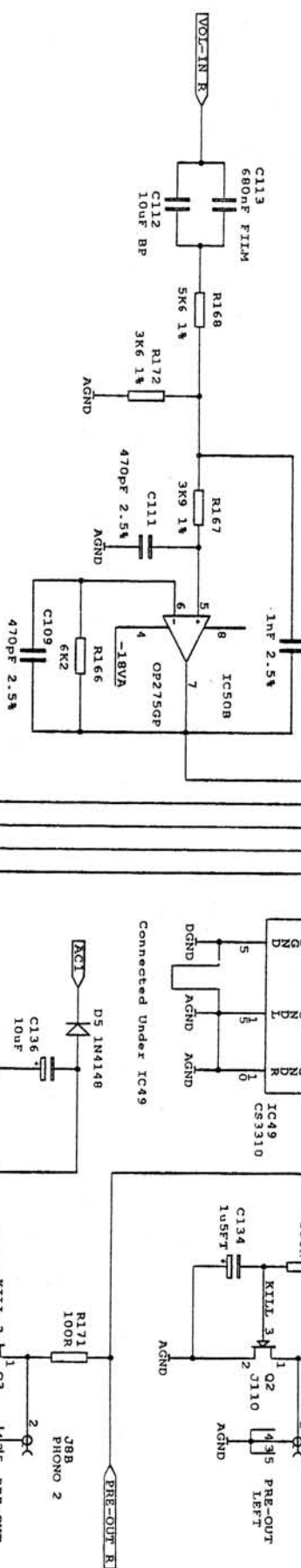
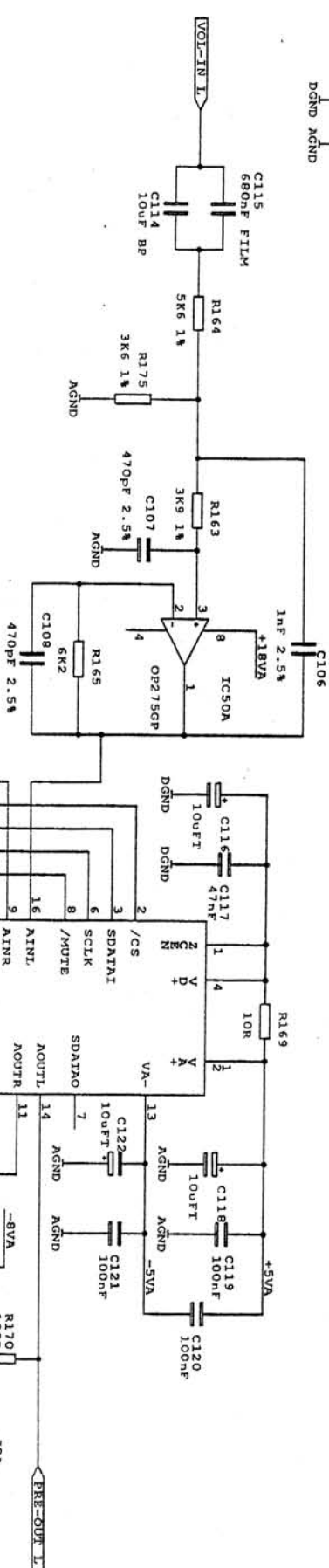
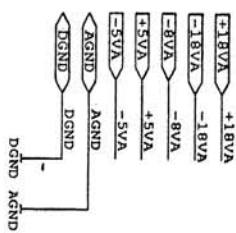


PINS 7, 8 AND 14 ON IC30 & IC32  
ARE CONNECTED TO VSS. VSS AND VDD RESPECTIVELY

PINS 7 AND 14 ON IC42, IC43 & IC53  
ARE CONNECTED TO V85 AND V00 RESPECTIVELY

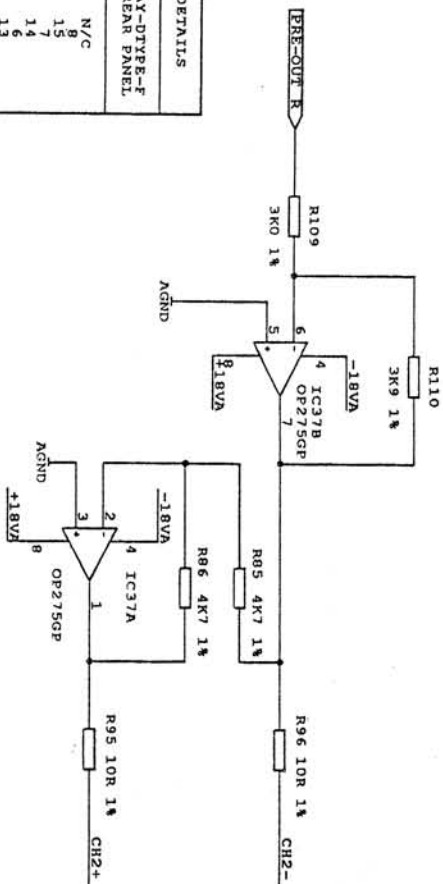


|                             |       |
|-----------------------------|-------|
| Q&A ELECTRONIC CORP. Ltd.   |       |
| RE: Peter's Need            |       |
| BIRMINGHAM                  |       |
| CORNWALLS                   |       |
| TITLE 77 PREPARE NO SECTION |       |
| NAME                        | NOTES |
| 1) Peter's Need             | 3     |
| 2) Peter's Need             | 3     |
| 3) Peter's Need             | 3     |
| 4) Peter's Need             | 3     |
| 5) Peter's Need             | 3     |
| 6) Peter's Need             | 3     |
| 7) Peter's Need             | 3     |
| 8) Peter's Need             | 3     |
| 9) Peter's Need             | 3     |
| 10) Peter's Need            | 3     |
| 11) Peter's Need            | 3     |
| 12) Peter's Need            | 3     |
| 13) Peter's Need            | 3     |
| 14) Peter's Need            | 3     |
| 15) Peter's Need            | 3     |
| 16) Peter's Need            | 3     |
| 17) Peter's Need            | 3     |
| 18) Peter's Need            | 3     |
| 19) Peter's Need            | 3     |
| 20) Peter's Need            | 3     |
| 21) Peter's Need            | 3     |
| 22) Peter's Need            | 3     |
| 23) Peter's Need            | 3     |
| 24) Peter's Need            | 3     |
| 25) Peter's Need            | 3     |
| 26) Peter's Need            | 3     |
| 27) Peter's Need            | 3     |
| 28) Peter's Need            | 3     |
| 29) Peter's Need            | 3     |
| 30) Peter's Need            | 3     |
| 31) Peter's Need            | 3     |
| 32) Peter's Need            | 3     |
| 33) Peter's Need            | 3     |
| 34) Peter's Need            | 3     |
| 35) Peter's Need            | 3     |
| 36) Peter's Need            | 3     |
| 37) Peter's Need            | 3     |
| 38) Peter's Need            | 3     |
| 39) Peter's Need            | 3     |
| 40) Peter's Need            | 3     |
| 41) Peter's Need            | 3     |
| 42) Peter's Need            | 3     |
| 43) Peter's Need            | 3     |
| 44) Peter's Need            | 3     |
| 45) Peter's Need            | 3     |
| 46) Peter's Need            | 3     |
| 47) Peter's Need            | 3     |
| 48) Peter's Need            | 3     |
| 49) Peter's Need            | 3     |
| 50) Peter's Need            | 3     |
| 51) Peter's Need            | 3     |
| 52) Peter's Need            | 3     |
| 53) Peter's Need            | 3     |
| 54) Peter's Need            | 3     |
| 55) Peter's Need            | 3     |
| 56) Peter's Need            | 3     |
| 57) Peter's Need            | 3     |
| 58) Peter's Need            | 3     |
| 59) Peter's Need            | 3     |
| 60) Peter's Need            | 3     |
| 61) Peter's Need            | 3     |
| 62) Peter's Need            | 3     |
| 63) Peter's Need            | 3     |
| 64) Peter's Need            | 3     |
| 65) Peter's Need            | 3     |
| 66) Peter's Need            | 3     |
| 67) Peter's Need            | 3     |
| 68) Peter's Need            | 3     |
| 69) Peter's Need            | 3     |
| 70) Peter's Need            | 3     |
| 71) Peter's Need            | 3     |
| 72) Peter's Need            | 3     |
| 73) Peter's Need            | 3     |
| 74) Peter's Need            | 3     |
| 75) Peter's Need            | 3     |
| 76) Peter's Need            | 3     |
| 77) Peter's Need            | 3     |
| 78) Peter's Need            | 3     |
| 79) Peter's Need            | 3     |
| 80) Peter's Need            | 3     |
| 81) Peter's Need            | 3     |
| 82) Peter's Need            | 3     |
| 83) Peter's Need            | 3     |
| 84) Peter's Need            | 3     |
| 85) Peter's Need            | 3     |
| 86) Peter's Need            | 3     |
| 87) Peter's Need            | 3     |
| 88) Peter's Need            | 3     |
| 89) Peter's Need            | 3     |
| 90) Peter's Need            | 3     |
| 91) Peter's Need            | 3     |
| 92) Peter's Need            | 3     |
| 93) Peter's Need            | 3     |
| 94) Peter's Need            | 3     |
| 95) Peter's Need            | 3     |
| 96) Peter's Need            | 3     |
| 97) Peter's Need            | 3     |
| 98) Peter's Need            | 3     |
| 99) Peter's Need            | 3     |
| 100) Peter's Need           | 3     |

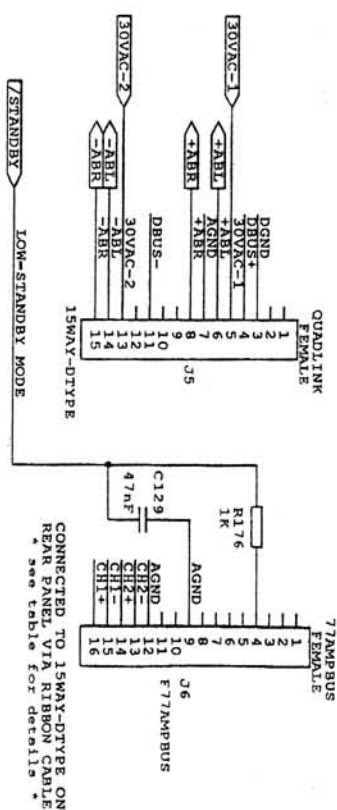
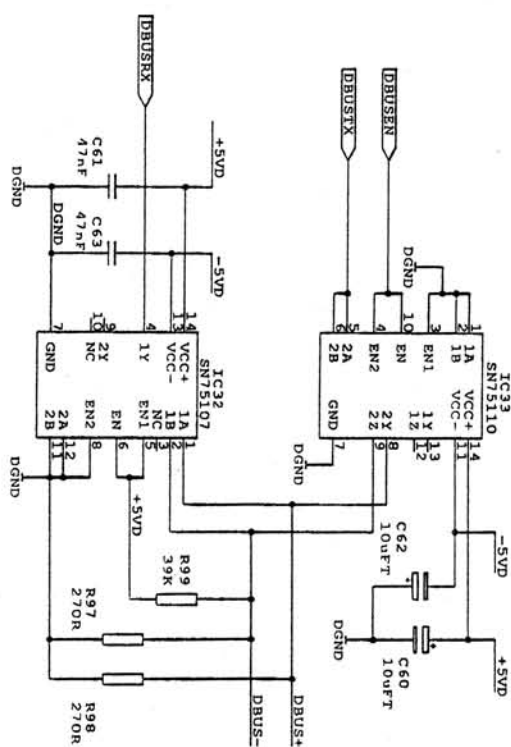


Connected Under IC49

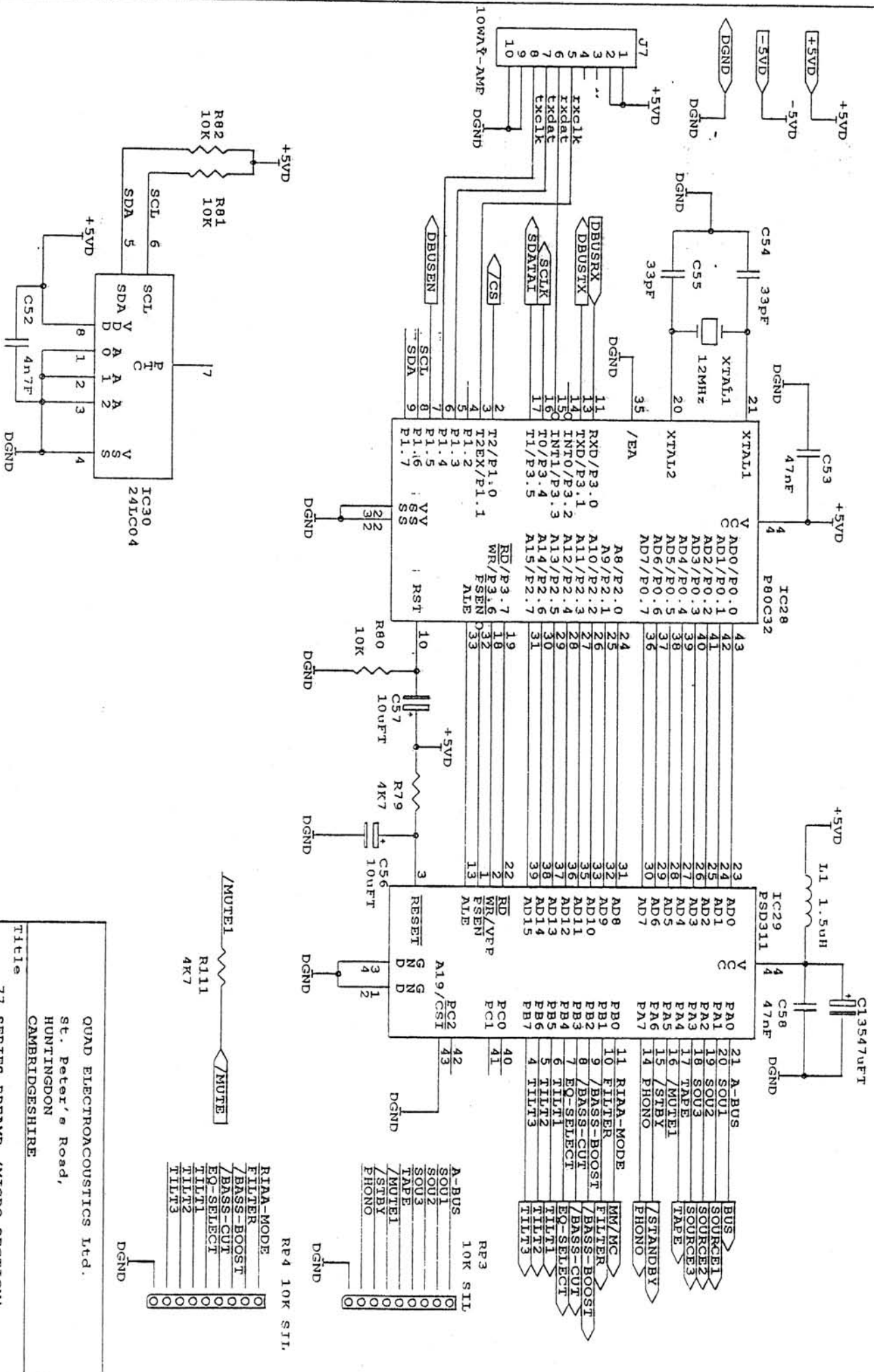
|                                       |                  |
|---------------------------------------|------------------|
| QUAD ELECTROACOUSTICS LTD             |                  |
| St Peter's Road                       |                  |
| HUNTINGDON                            |                  |
| CAMBRIDGESHIRE                        |                  |
| Title 77 SERIES PREAMP VOLUME CONTROL |                  |
| Size                                  | Document Number  |
| A3                                    | #64154.SCH       |
| Date:                                 | January 25, 1996 |
| Sheet                                 | 6 of 9           |
| REV                                   | 3                |



| CONNECTION DETAILS |                             |
|--------------------|-----------------------------|
| J6 ON BOARD        | 15WAY-DIY6E-F ON REAR PANEL |
| 1                  | N/C                         |
| 2                  | 8                           |
| 3                  | 15                          |
| 4                  | 14                          |
| 5                  | 16                          |
| 6                  | 13                          |
| 7                  | 12                          |
| 8                  | 4                           |
| 9                  | 11                          |
| 10                 | 3                           |
| 11                 | 10                          |
| 12                 | 9                           |
| 13                 | 1                           |
| 14                 |                             |
| 15                 |                             |
| 16                 |                             |

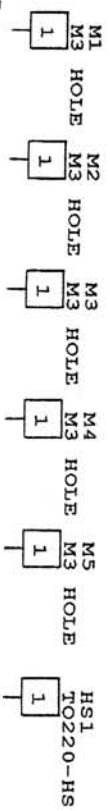




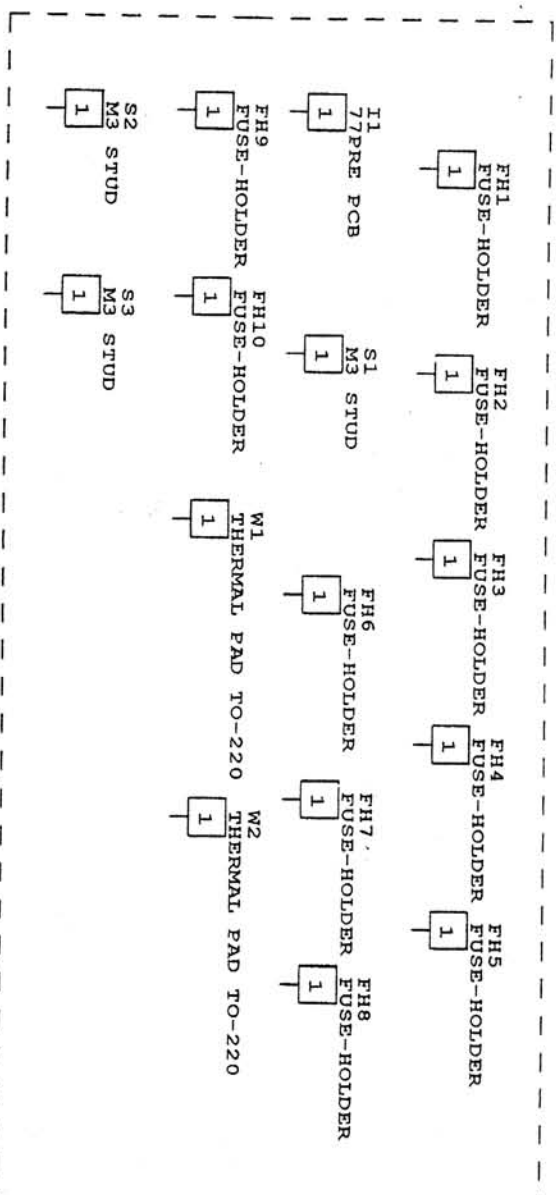


|                                  |   |
|----------------------------------|---|
| QUAD ELECTROACOUSTICS Ltd.       |   |
| St. Peter's Road,                |   |
| HUNTINGDON                       |   |
| CAMBRIDGESHIRE                   |   |
| Title                            |   |
| 77 SERIES PREAMP (MICRO SECTION) |   |
| Size                             |   |
| Document Number                  |   |
| #84154.sch                       |   |
| Date: December 8, 1995           |   |
| Sheet 8 of 9                     |   |
| REV                              | 2 |





Import #m4154-a.sch to retrieve other mechanical parts below



Export these out temporarily when creating netlist!

|                                           |                  |
|-------------------------------------------|------------------|
| QUAD ELECTROACOUSTICS Ltd.                |                  |
| St. Peter's Road,                         |                  |
| HUNTINGDON                                |                  |
| CAMBRIDGESHIRE                            |                  |
| Title                                     |                  |
| 77 SERIES PREAMP (MECH PARTS ON MAIN PCB) |                  |
| Size                                      | Document Number  |
| A4                                        | #94154.SCH       |
| Date:                                     | December 8, 1995 |
| Sheet                                     | 9 of 9           |
| REV                                       | 2                |

