

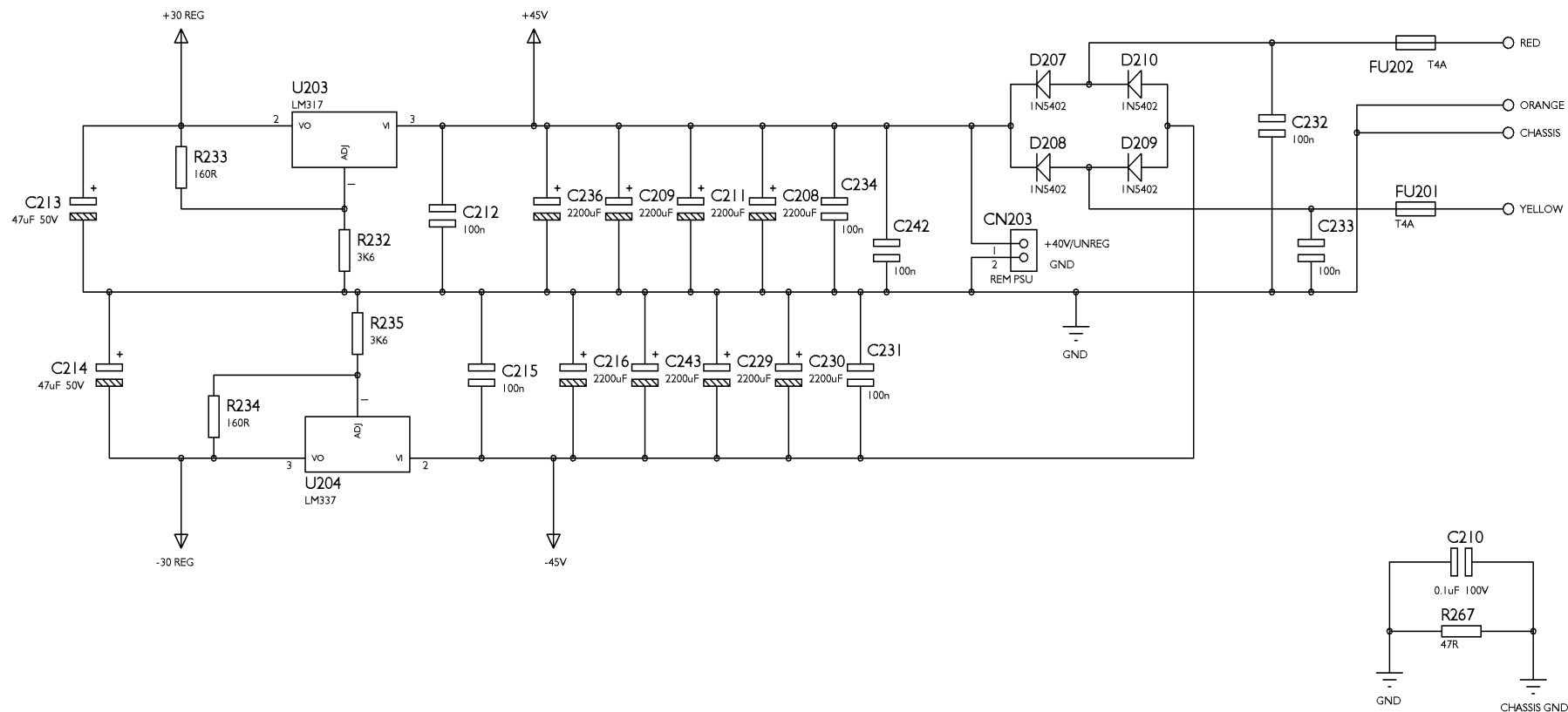
**A500**

**Integrated  
Amplifier**

**Schematics & Bill of  
Materials**

**ADDITIONS**

| FACTORY PART NO      | DRAWING NO | DESCRIPTION                                 | QTY | COMMENTS                                                        |
|----------------------|------------|---------------------------------------------|-----|-----------------------------------------------------------------|
|                      | API1727/1  | A500/s OWNERS' CERTIFICATE                  | 1   |                                                                 |
|                      | API1655/2  | A500/s CARTON LABEL (MODEL NO.)             | 1   | FOR BOX                                                         |
|                      | API0209/1  | CAMBRIDGE SELECTOR KNOB MK3                 | 4   | TO BE SPRAYED SILVER (PAINT SPEC AS APPROVED BY STEPHEN YEUNG)  |
|                      | API0208/1  | CAMBRIDGE VOLUME KNOB MK2                   | 1   | TO BE SPRAYED SILVER (PAINT SPEC AS APPROVED BY STEPHEN YEUNG)  |
| 6040-010103-000      | API0028/1  | CAMBRIDGE POWER KNOB                        | 3   | TO BE SPRAYED SILVER (PAINT SPEC AS APPROVED BY STEPHEN YEUNG)  |
| 6510-150241-000      |            | AI TOP COVER (MODIFIED)                     | 1   | MODIFIED TO DRAWING API0019/3, COLOUR SPEC AS PER ESRI349       |
|                      |            | A500/s FRONT PANEL (PUNCHED AND PRINTED)    | 1   | PRINTED WITH ARTWORK API1626/2 AND API1647/2                    |
|                      | API0269/2  | AMPLIFIER FRONT PANEL WITH RC & TD          | 1   | FINISH AS PER ESRI363                                           |
|                      |            | A500RC REAR PANEL (PRINTED)                 | 1   | PRINTED WITH ARTWORK NO. API0294/1                              |
|                      | API0276/1  | AMPLIFIER REAR PANEL WITH IEC, 8RCA, 2 SPKR | 1   | FINISH AS PER ESRI349                                           |
|                      | API0246/5  | CAMBRIDGE CLEAR REMOTE EYE                  | 1   |                                                                 |
|                      |            | INFRARED SENSOR SBX1910-52                  | 1   | NOT TO BE COLOURED BLACK                                        |
|                      |            | BLUE POWER LED                              |     | APPROVED SAMPLE ESRI337                                         |
| 7003-006001-111      |            | SCREW M3X6 S.T.P. B/H (SILVER)              | 9   | TOP COVER TO REAR PANEL X2/REAR PANEL TO BASE X7/               |
| 7003-006001-131      |            | SCREW M3X6 S.T.P. PW/H (SILVER)             | 4   | TOP COVER TO BASE (L& R) X4, AS PER ESRI359                     |
|                      |            | BOLT M3x10 B/H                              | 2   | IEC TO REAR PANEL                                               |
| 7003-008002-111      |            | SCREW M3X8 P.T.P. B/H (SILVER)              | 10  | SPEAKER TERMINAL TO REAR PANEL X6/RCA TERMINAL TO REAR PANEL X4 |
| <b>SUBTRACTION</b>   |            |                                             |     |                                                                 |
|                      | API0463/1  | A500RC OWNERS' CERTIFICATE                  | 1   |                                                                 |
|                      | API0281/1  | A500RC CARTON LABEL (MODEL NO.)             | 1   | FOR BOX                                                         |
|                      | API0209/1  | CAMBRIDGE SELECTOR KNOB MK3                 | 4   |                                                                 |
|                      | API0208/1  | CAMBRIDGE VOLUME KNOB MK2                   | 1   |                                                                 |
| 6040-010103-000      | API0028/1  | CAMBRIDGE POWER KNOB                        | 3   |                                                                 |
| 6510-150241-000      |            | AI TOP COVER (MODIFIED)                     | 1   | MODIFIED TO DRAWING API0019/3                                   |
| 6510-150241-000-XXXX | CAMA107D   | AI TOP COVER                                | 1   |                                                                 |
|                      | API0304/2  | AMPLIFIER SUB-PANEL WITH TD & RC            | 1   |                                                                 |
|                      |            | A500RC FRONT PANEL (PUNCHED AND PRINTED)    | 1   | PRINTED WITH ARTWORK API0286/1, API0287/1                       |
|                      | API0269/2  | AMPLIFIER FRONT PANEL WITH RC & TD          | 1   |                                                                 |
|                      |            | A500RC REAR PANEL (PRINTED)                 | 1   | PRINTED WITH ARTWORK NO. API0294/1                              |
|                      | API0276/1  | AMPLIFIER REAR PANEL WITH IEC, 8RCA, 2 SPKR | 1   |                                                                 |
|                      | API0246/4  | CAMBRIDGE REMOTE EYE                        | 1   |                                                                 |
|                      |            | INFRARED SENSOR SBX1910-52                  | 1   |                                                                 |
|                      |            | LED TRI-COLOUR (ORANGE/RED/GREEN) 3mm       | 1   | PIN-OUT AS PER API0451/1                                        |
| 7003-006001-111      |            | SCREW M3X6 S.T.P. B/H (SILVER)              | 9   | TOP COVER TO REAR PANEL X2/REAR PANEL TO BASE X7/               |
| 7003-006001-131      |            | SCREW M3X6 S.T.P. PW/H (BLK)                | 4   | TOP COVER TO BASE (L& R) X4                                     |
|                      |            | BOLT M3x10 B/H                              | 2   | IEC TO REAR PANEL                                               |
| 7003-008002-111      |            | SCREW M3X8 P.T.P. B/H (SILVER)              | 10  | SPEAKER TERMINAL TO REAR PANEL X6/RCA TERMINAL TO REAR PANEL X4 |
|                      |            |                                             |     |                                                                 |
|                      |            |                                             |     |                                                                 |



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GENERAL NOTES

- 1.
- 2.
- 3.
- 4.
- 5.

DRAWING TITLE  
SAPI 5N/P POWER AMP

SHEET TITLE  
POWER SUPPLY

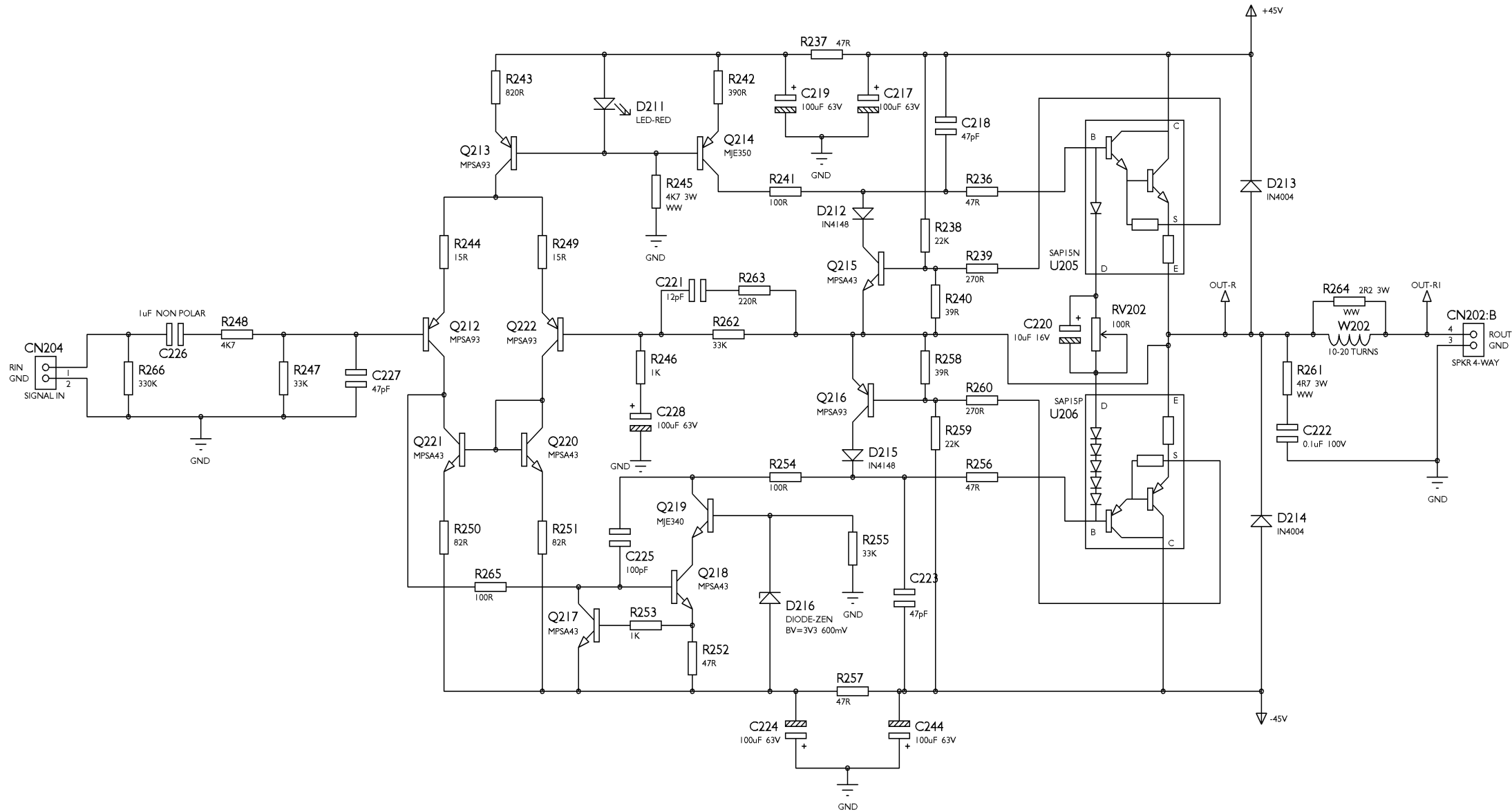
DRAWING No. AP10687/2

PAGE 1/3

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NF

DATE  
29/12/98

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GENERAL NOTES

1. WW - WIREWOUND
2. 22 SWG TINNED COPPER WIRE FOR W101
- 3.
- 4.
- 5.

DRAWING TITLE  
**SAPI 5N/P POWER AMP**

DRAWN BY  
**NF**

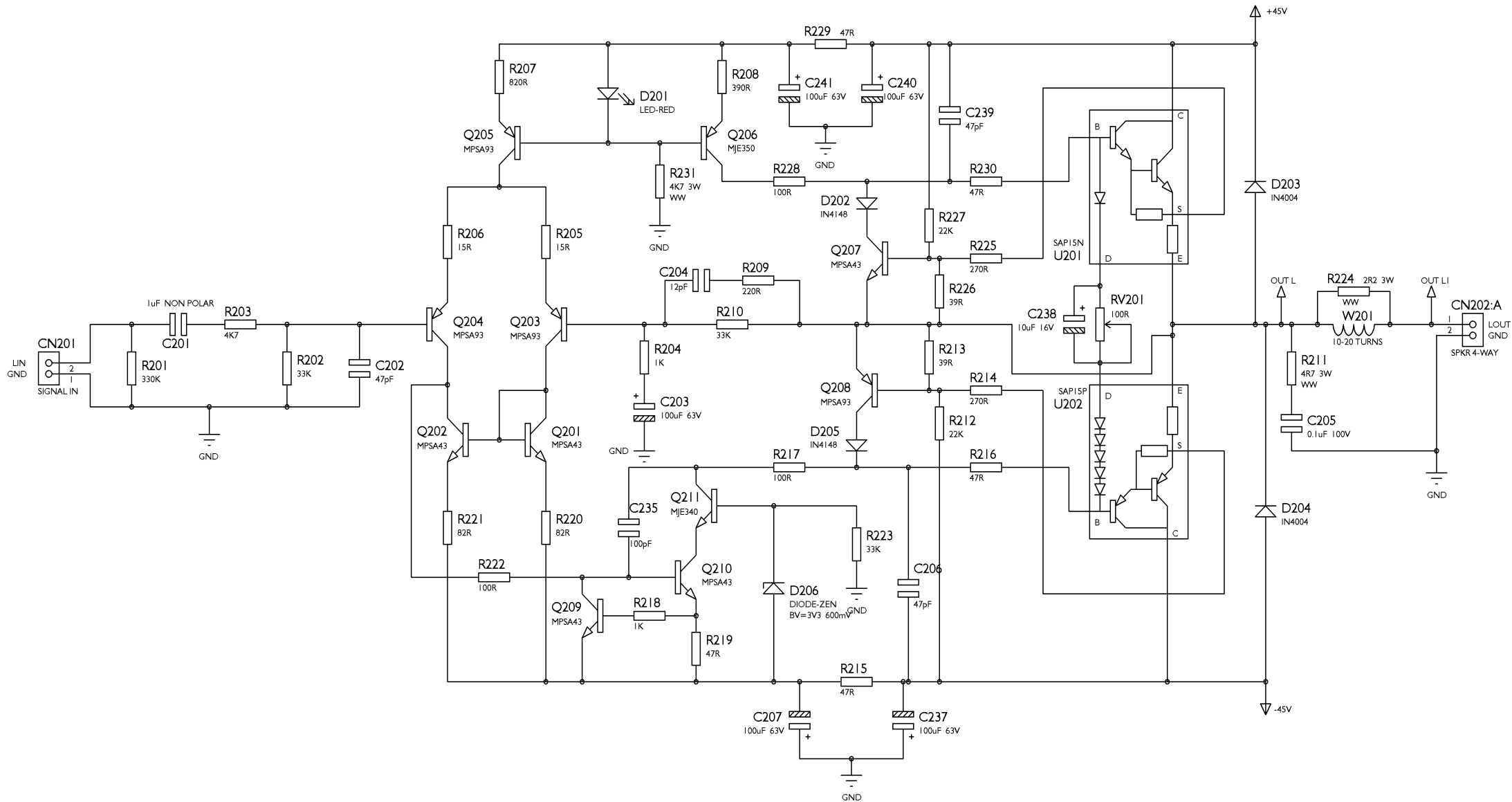
SHEET TITLE  
**RIGHT CHANNEL**

DATE  
**29/12/98**

DRAWING No.  
**API0687/2**

PAGE  
**2/3**

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# GENERAL NOTES

1. ww - WIREWOUND
2. 22 SWG TINNED COPPER WIRE FOR W301
- 3.
- 4.
- 5.

DRAWING TITLE  
SAPI 5N/P POWER AMP

SHEET TITLE  
LEFT CHANNEL

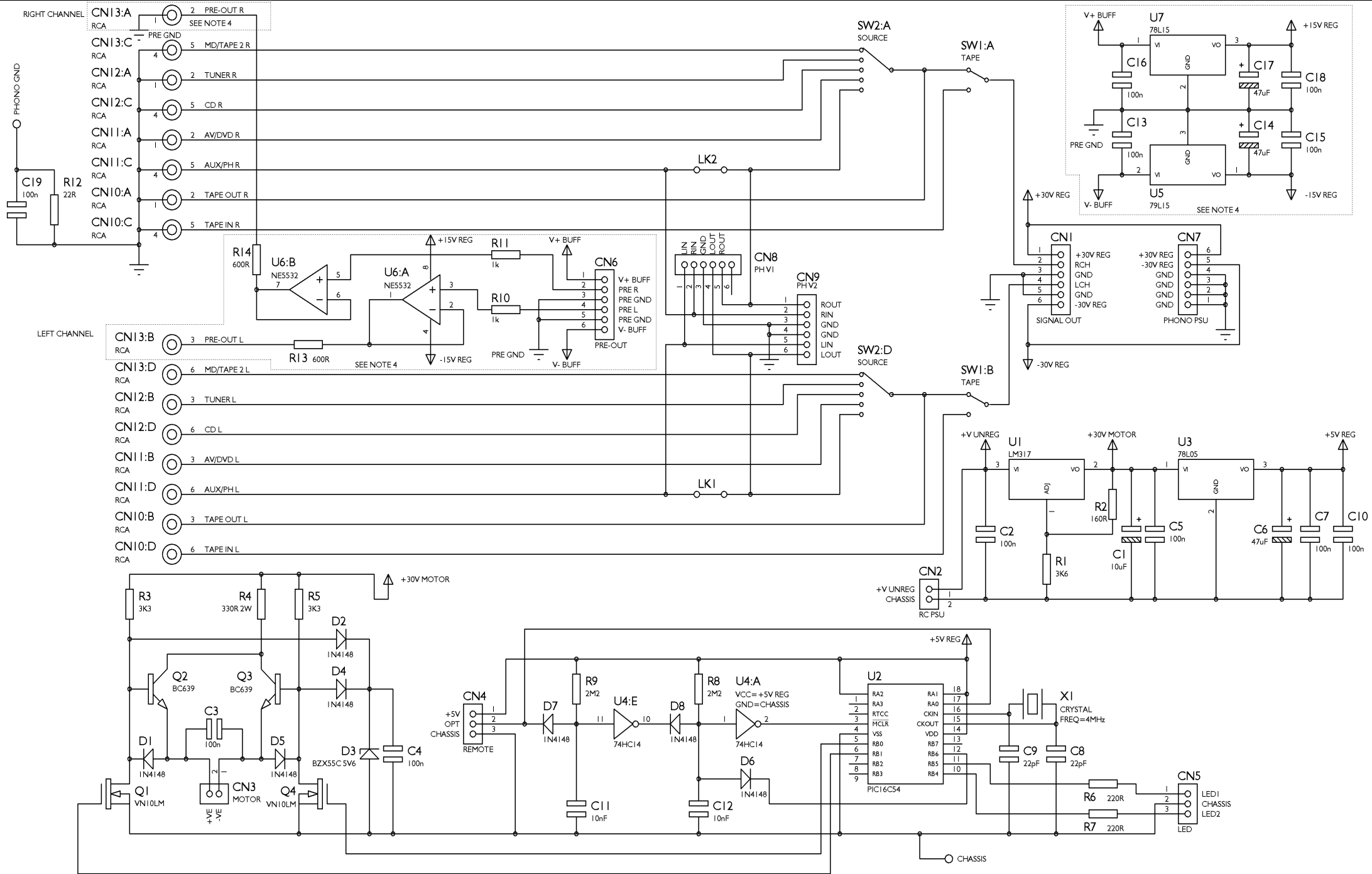
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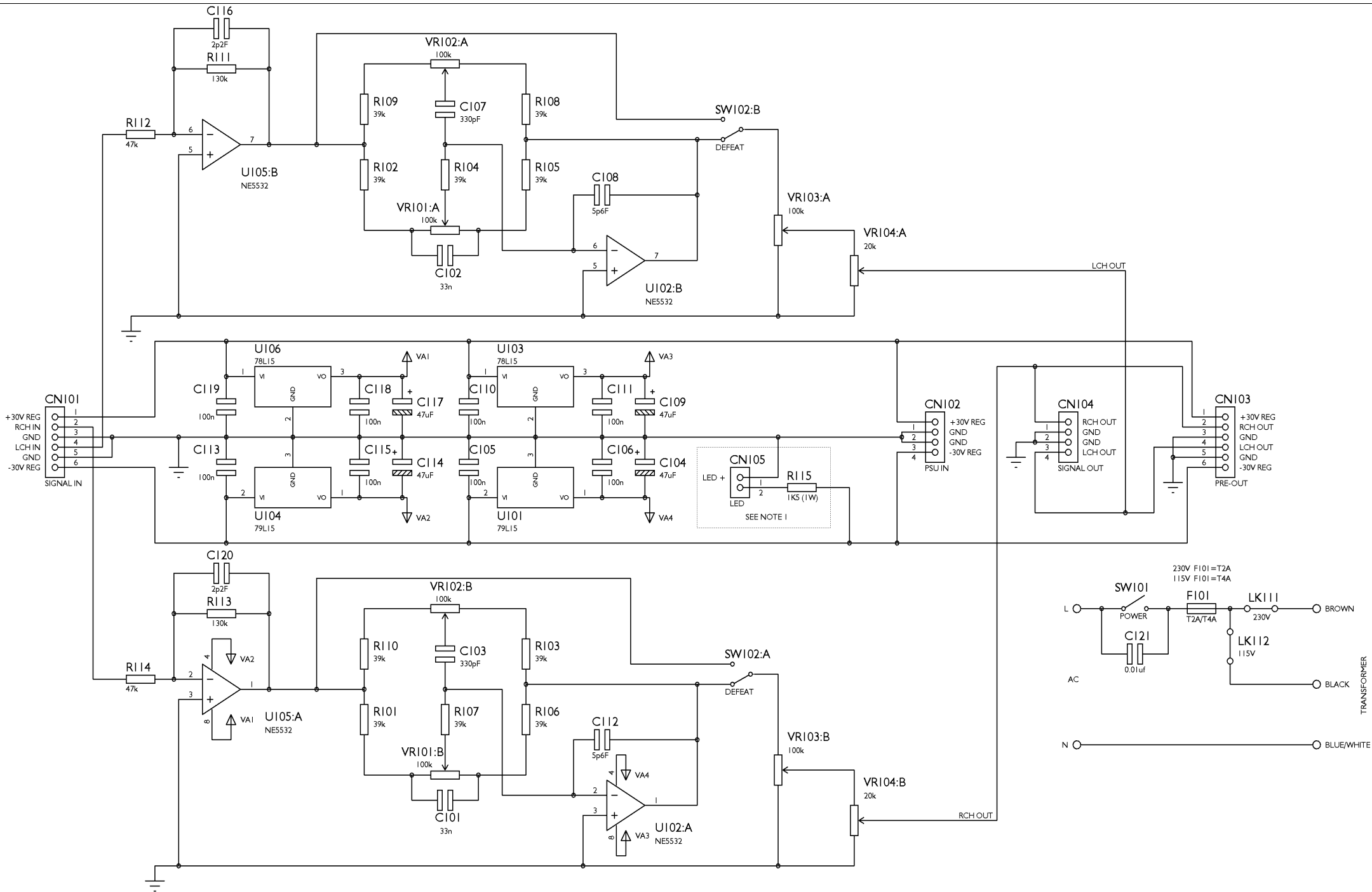
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# GENERAL NOTES

1. CN105/R115 NOT FITTED TO RC PRODUCTS
- 2.
- 3.
- 4.
- 5.

DRAWING TITLE

TONE PCB WITH TONE DEFEAT

SHEET TITLE

COMPLETE PCB

DRAWING No.

AP10230/3

PAGE

1/1

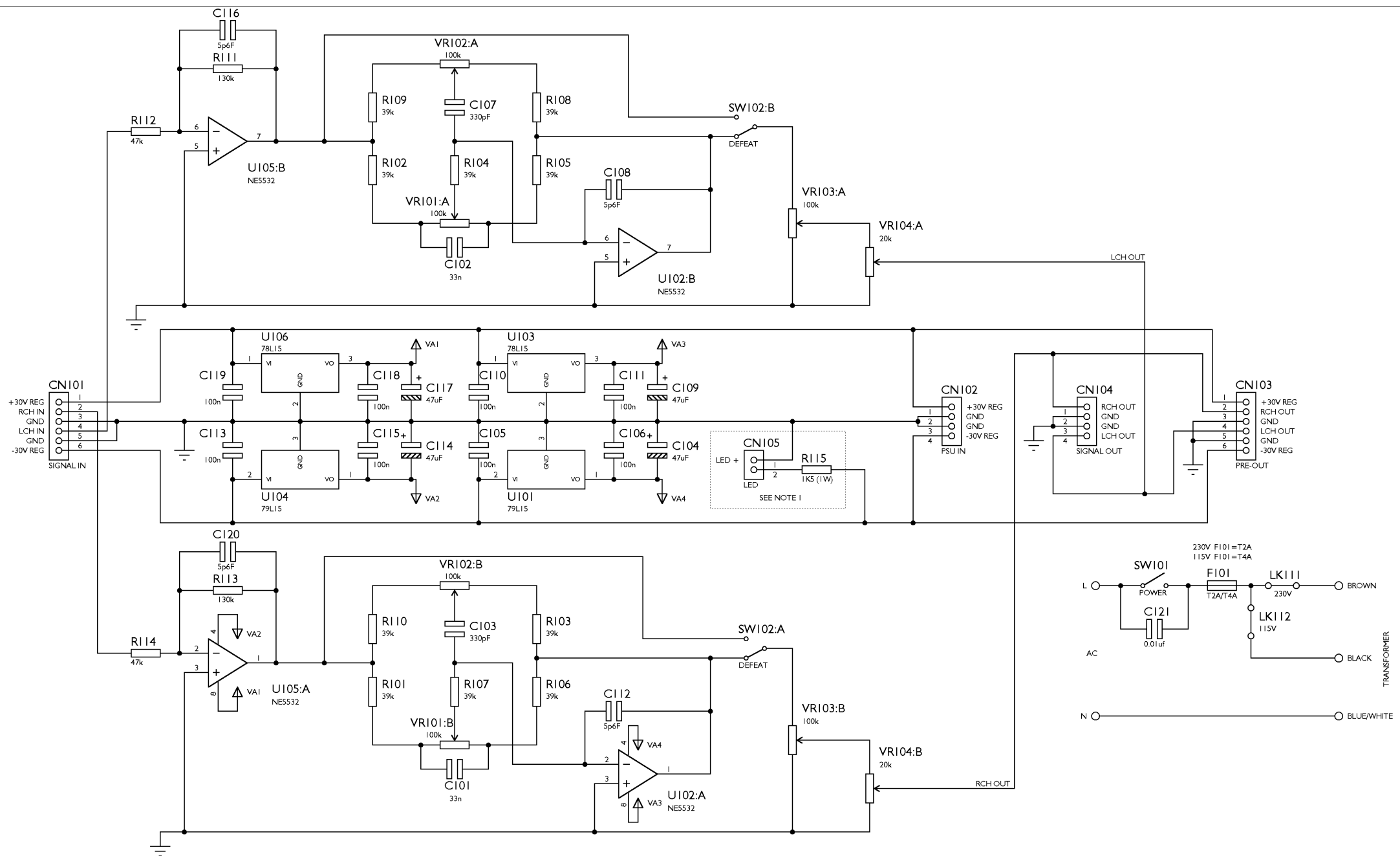
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# GENERAL NOTES

1. CN105/R115 NOT FITTED TO RC PRODUCTS
- 2.
- 3.
- 4.
- 5.

DRAWING TITLE  
TONE PCB WITH TONE DEFEAT

SHEET TITLE  
COMPLETE PCB

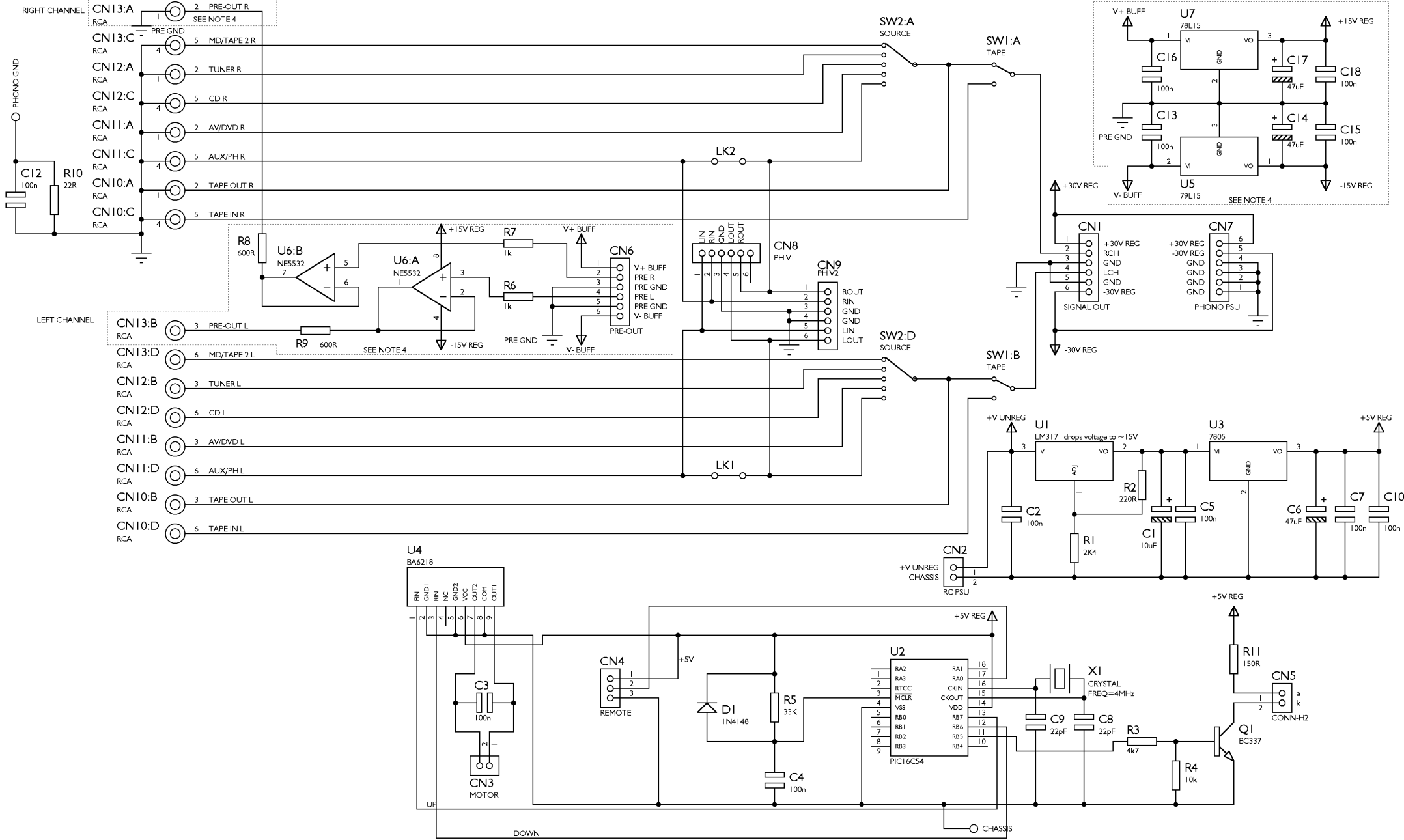
DRAWING No. AP10230/1

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DATE 11/06/98

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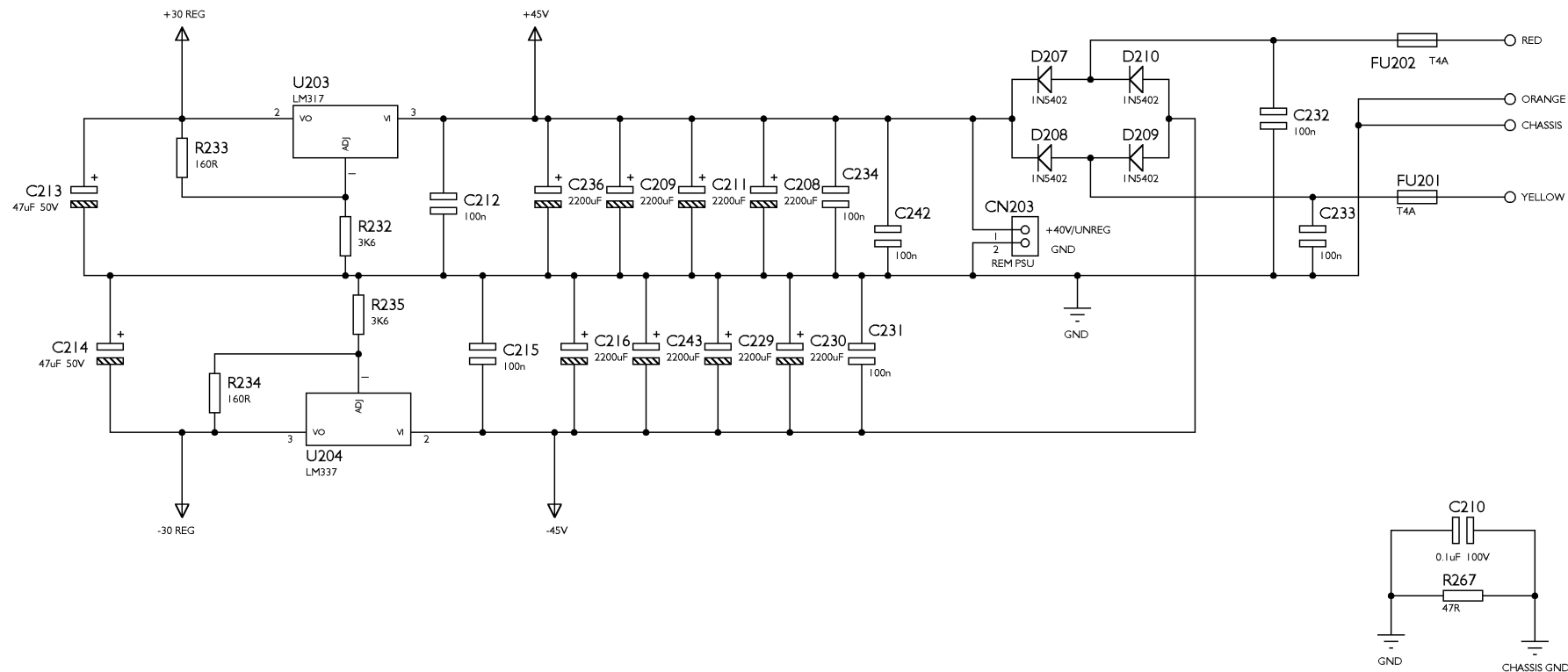


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- GENERAL NOTES
1. CN6 FOR V1 OPTIONAL PHONO STAGE
  2. CN5 FOR V2 OPTIONAL PHONO STAGE
  3. CUT LINKS 1 & 2 WHEN FITTING PHONO STAGE
  4. COMPONENTS NOT FITTED IN POP REV B
  - 5.

|                                                 |  |                  |  |
|-------------------------------------------------|--|------------------|--|
| DRAWING TITLE<br>INPUT PCB WITH PRE-OUT AND R/C |  | DRAWN BY<br>LR   |  |
| SHEET TITLE<br>COMPLETE PCB                     |  | DATE<br>03/08/00 |  |
| DRAWING No.<br>AP10261/4                        |  | PAGE<br>1/1      |  |
|                                                 |  | CHECKED BY       |  |



|                                                                                                                                                                                                                       |                                                                                                                           |                                                                                                                                    |                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|

**A500 - A500/s BOM DIFFERENCES**
**API1759/I - Additions**

27/11/0015:37

| LEVEL | YANION PART NO  | DRAWING NO | DESCRIPTION                                 | QTY | DESIGNATOR | COMMENTS                                                        |
|-------|-----------------|------------|---------------------------------------------|-----|------------|-----------------------------------------------------------------|
| ..1   |                 | API1727/I  | A500/s OWNERS' CERTIFICATE                  | 1   |            |                                                                 |
| ..1   |                 | API1655/2  | A500/s CARTON LABEL (MODEL NO.)             | 1   |            | FOR BOX                                                         |
| ..2   |                 | API0209/I  | CAMBRIDGE SELECTOR KNOB MK3                 | 4   |            | TO BE SPRAYED SILVER (PAINT SPEC AS APPROVED BY STEPHEN YEUNG)  |
| ..2   |                 | API0208/I  | CAMBRIDGE VOLUME KNOB MK2                   | 1   |            | TO BE SPRAYED SILVER (PAINT SPEC AS APPROVED BY STEPHEN YEUNG)  |
| ..2   | 6040-010103-000 | API0028/I  | CAMBRIDGE POWER KNOB                        | 3   |            | TO BE SPRAYED SILVER (PAINT SPEC AS APPROVED BY STEPHEN YEUNG)  |
| ..2   | 6510-150241-000 |            | AI TOP COVER (MODIFIED)                     | 1   |            | MODIFIED TO DRAWING API0019/3, COLOUR SPEC AS PER ESR1349       |
| ..2   |                 |            | A500/s FRONT PANEL (PUNCHED AND PRINTED)    | 1   |            | PRINTED WITH ARTWORK API1626/2 AND API1647/2                    |
| ...3  |                 | API0269/2  | AMPLIFIER FRONT PANEL WITH RC & TD          | 1   |            | FINISH AS PER ESR1363                                           |
| ..2   |                 |            | A500RC REAR PANEL (PRINTED)                 | 1   |            | PRINTED WITH ARTWORK NO. API0294/I                              |
| ...3  |                 | API0276/I  | AMPLIFIER REAR PANEL WITH IEC, 8RCA, 2 SPKR | 1   |            | FINISH AS PER ESR1349                                           |
| ...3  |                 | API0246/5  | CAMBRIDGE CLEAR REMOTE EYE                  | 1   |            |                                                                 |
| ...4  |                 |            | INFRARED SENSOR SBX1910-52                  | 1   |            | NOT TO BE COLOURED BLACK                                        |
|       |                 |            | BLUE POWER LED                              |     |            | APPROVED SAMPLE ESR1337                                         |
| ..2   | 7003-006001-111 |            | SCREW M3X6 S.T.P. B/H (SILVER)              | 9   |            | TOP COVER TO REAR PANEL X2/REAR PANEL TO BASE X7/               |
| ..2   | 7003-006001-131 |            | SCREW M3X6 S.T.P. PW/H (SILVER)             | 4   |            | TOP COVER TO BASE (L&R) X4, AS PER ESR1359                      |
| ..2   |                 |            | BOLT M3x10 B/H                              | 2   |            | IEC TO REAR PANEL                                               |
| ..2   | 7003-008002-111 |            | SCREW M3X8 P.T.P. B/H (SILVER)              | 10  |            | SPEAKER TERMINAL TO REAR PANEL X6/RCA TERMINAL TO REAR PANEL X4 |

**A500 - A500/s BOM DIFFERENCES**
**API1759/I - Subtractions**

27/11/00 16:31

| LEVEL | YANION PART NO       | DRAWING NO | DESCRIPTION                                 | QTY | DESIGNATOR | COMMENTS                                                        |
|-------|----------------------|------------|---------------------------------------------|-----|------------|-----------------------------------------------------------------|
| ..1   |                      | API0463/1  | A500RC OWNERS' CERTIFICATE                  | 1   |            |                                                                 |
| ..1   |                      | API0281/1  | A500RC CARTON LABEL (MODEL NO.)             | 1   |            | FOR BOX                                                         |
| ..2   |                      | API0209/1  | CAMBRIDGE SELECTOR KNOB MK3                 | 4   |            |                                                                 |
| ..2   |                      | API0208/1  | CAMBRIDGE VOLUME KNOB MK2                   | 1   |            |                                                                 |
| ..2   | 6040-010103-000      | API0028/1  | CAMBRIDGE POWER KNOB                        | 3   |            |                                                                 |
| ..2   | 6510-150241-000      |            | AI TOP COVER (MODIFIED)                     | 1   |            | MODIFIED TO DRAWING API0019/3                                   |
| ...3  | 6510-150241-000-XXXX | CAMA107D   | AI TOP COVER                                | 1   |            |                                                                 |
| ..2   |                      | API0304/2  | AMPLIFIER SUB-PANEL WITH TD & RC            | 1   |            |                                                                 |
| ..2   |                      |            | A500RC FRONT PANEL (PUNCHED AND PRINTED)    | 1   |            | PRINTED WITH ARTWORK API0286/1, API0287/1                       |
| ...3  |                      | API0269/2  | AMPLIFIER FRONT PANEL WITH RC & TD          | 1   |            |                                                                 |
| ..2   |                      |            | A500RC REAR PANEL (PRINTED)                 | 1   |            | PRINTED WITH ARTWORK NO. API0294/1                              |
| ...3  |                      | API0276/1  | AMPLIFIER REAR PANEL WITH IEC, 8RCA, 2 SPKR | 1   |            |                                                                 |
| ...3  |                      | API0246/4  | CAMBRIDGE REMOTE EYE                        | 1   |            |                                                                 |
| ...4  |                      |            | INFRARED SENSOR SBX1910-52                  | 1   |            |                                                                 |
| ...3  |                      |            | LED TRI-COLOUR (ORANGE/RED/GREEN) 3mm       | 1   |            | PIN-OUT AS PER API0451/1                                        |
| ..2   | 7003-006001-111      |            | SCREW M3X6 S.T.P. B/H (SILVER)              | 9   |            | TOP COVER TO REAR PANEL X2/REAR PANEL TO BASE X7/               |
| ..2   | 7003-006001-131      |            | SCREW M3X6 S.T.P. PW/H (BLK)                | 4   |            | TOP COVER TO BASE (L&R) X4                                      |
| ..2   |                      |            | BOLT M3x10 B/H                              | 2   |            | IEC TO REAR PANEL                                               |
| ..2   | 7003-008002-111      |            | SCREW M3X8 P.T.P. B/H (SILVER)              | 10  |            | SPEAKER TERMINAL TO REAR PANEL X6/RCA TERMINAL TO REAR PANEL X4 |

## A 300 / A 500 Amplifier idle current adjustment procedure

When replacing the SAP15 output pair, reset the bias current by adjusting RV201 while monitoring the voltage between pins S and E of the transistor, to achieve a voltage of **13mV** (equivalent of approx 60mA).

