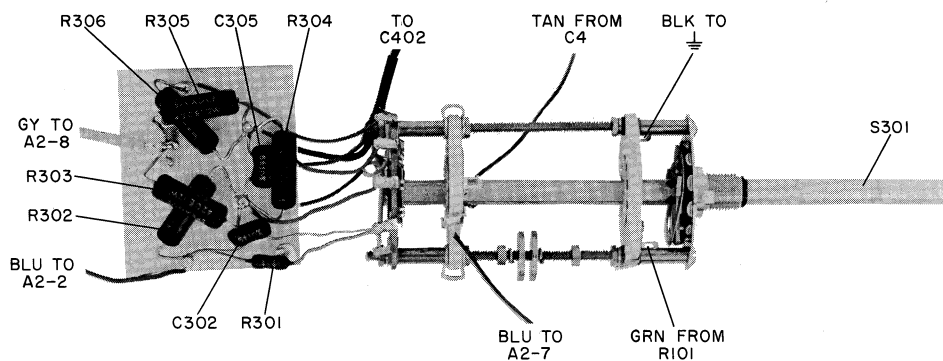
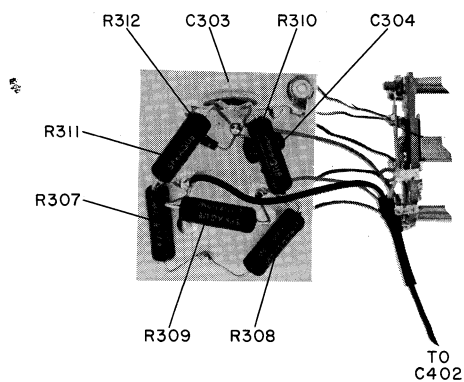


## NOTES

1. ALL DC AND AC VOLTAGE LEVELS SHOWN IN RED ARE WITH 1 MV INPUT (FULL SCALE DEFLECTION). A TOLERANCE OF  $\pm 10\%$  SHOULD BE ALLOWED FOR VARIATIONS FROM INSTRUMENT TO INSTRUMENT.
2. ALL AC VOLTAGES ARE UNDERLINED. ALL DC VOLTAGES HAVE A POLARITY INDICATION.



3400A-A-0107

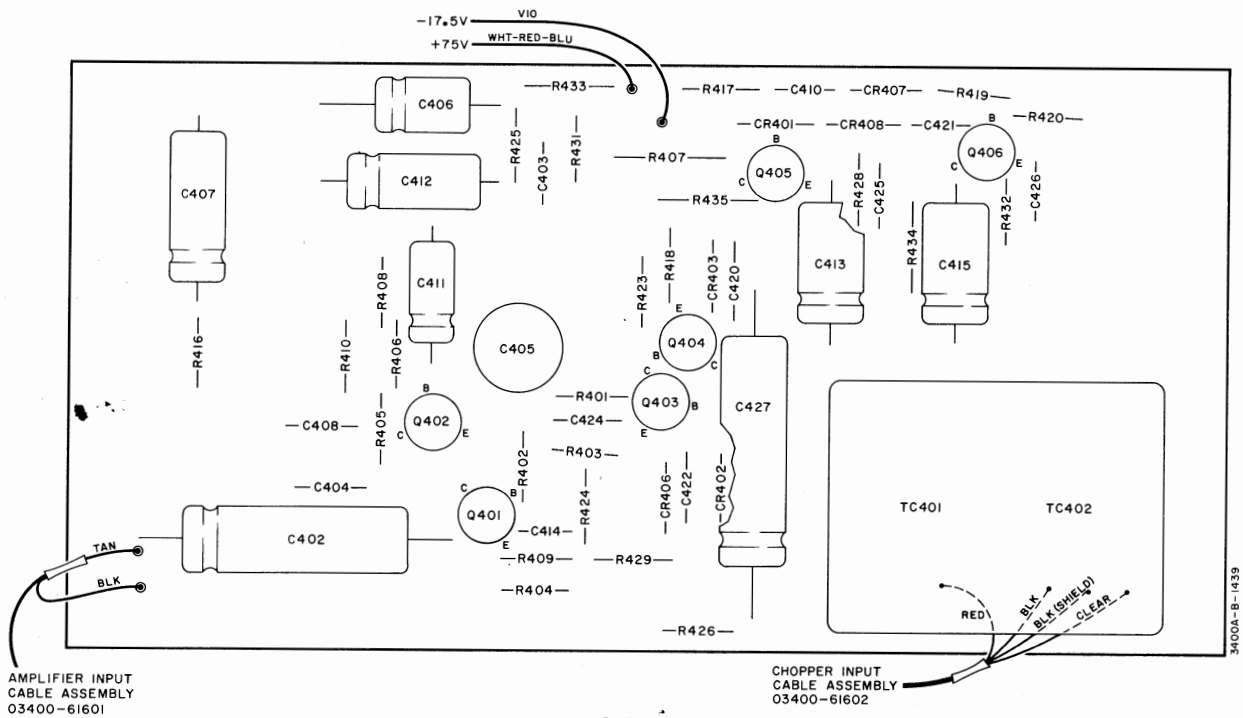


**A3**

(hp PART NO. 03400-63401)  
(BOARD ONLY)

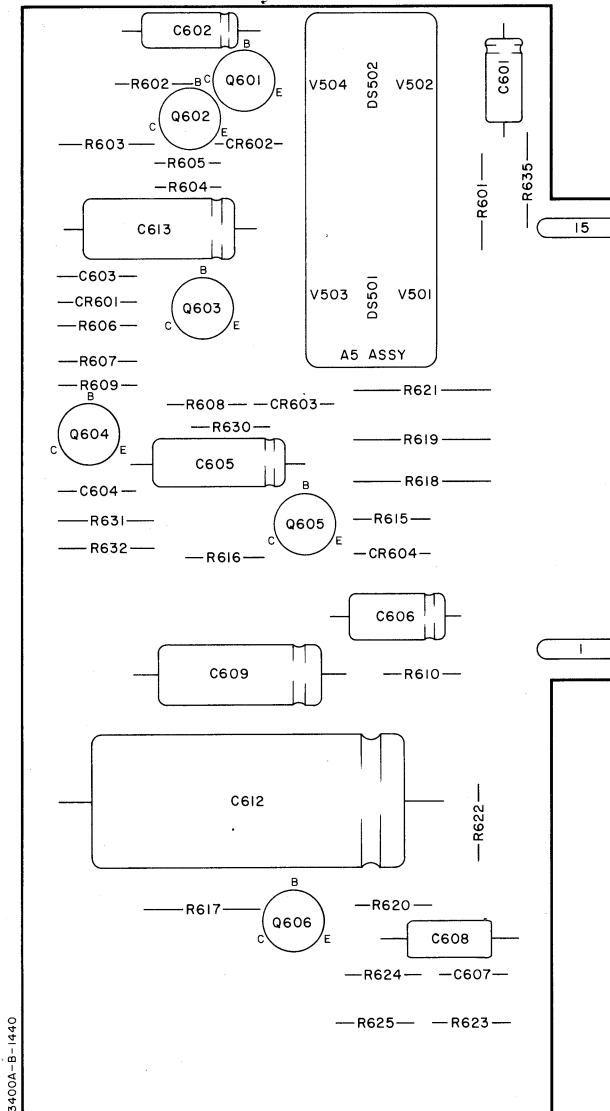
## NOTES

1. ALL DC AND AC VOLTAGE LEVELS SHOWN IN RED ARE WITH 1 MV INPUT (FULL SCALE DEFLECTION). A TOLERANCE OF  $\pm 10\%$  SHOULD BE ALLOWED FOR VARIATIONS FROM INSTRUMENT TO INSTRUMENT.
2. ALL AC VOLTAGES ARE UNDERLINED. ALL DC VOLTAGES HAVE A POLARITY INDICATION.
3. AC VOLTAGE LEVELS AT Q405 AND Q406 MUST BE OBSERVED WITH 10:1 DIVIDER PROBE.
4. IF C427 IS REPLACED, IT MAY BE NECESSARY TO SELECT THE VALUE OF C427 FOR PROPER FREQUENCY RESPONSE. THIS IS DUE TO CAPACITOR TOLERANCE.



A4

(hp PART NO. 03400-66503)



3400A-B-1440

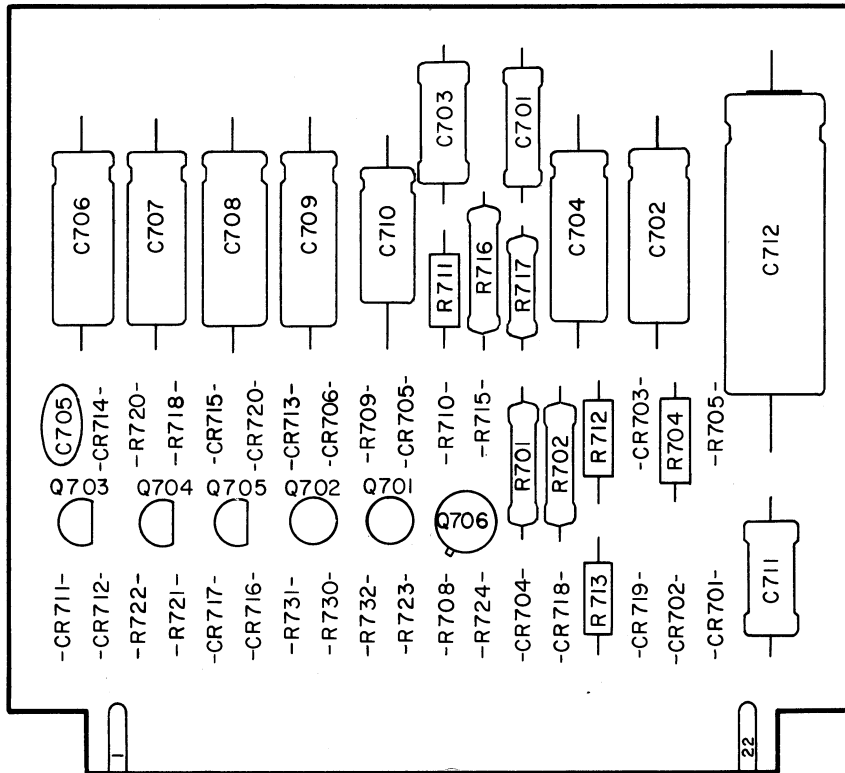
**A6**

(hp PART NO. 03400-66508)

A7

(hp Part No. 03400-66510)

Rev A



3400A-B-2672

MODEL 3400A  
RMS VOLTMETER

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Table C-1. Replaceable Parts

| REFERENCE<br>DESIGNATION                                                                                                                                                                                                                                         | -hp-<br>PART NO. | DESCRIPTION                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------|
| <p style="text-align: center;">NOTE</p> <p>This table applies to instruments with serials prefixed 322-, 401-, 528-, and 714-, with chopper amplifier board 03400-66504. If a 03400-66508 chopper amplifier board is installed use Table 7-1 and Figure 6-3.</p> |                  |                                                                                    |
| A6                                                                                                                                                                                                                                                               | 03400-66504      | Assembly: chopper amplifier board                                                  |
| A5                                                                                                                                                                                                                                                               | 1990-0017        | Assembly: photoconductor chopper part of A6                                        |
|                                                                                                                                                                                                                                                                  |                  | Note                                                                               |
|                                                                                                                                                                                                                                                                  |                  | Matched neon subassembly (DS501 and DS502) available under -hp- Part No. 1990-0206 |
| C601                                                                                                                                                                                                                                                             | 0180-0081        | 50 $\mu$ F +20% -15% 10 vdcw                                                       |
| C602                                                                                                                                                                                                                                                             | 0180-0032        | 10 $\mu$ F +75% -10% 12 vdcw                                                       |
| C603 and C604                                                                                                                                                                                                                                                    | 0150-0084        | 0.1 $\mu$ F -20% +80% 50 vdcw                                                      |
| C605                                                                                                                                                                                                                                                             | 0180-0111        | 2 $\mu$ F 25 vdcw                                                                  |
| C606                                                                                                                                                                                                                                                             | 0180-0224        | 10 $\mu$ F 10 vdcw                                                                 |
| C607                                                                                                                                                                                                                                                             | 0150-0093        | 0.01 $\mu$ F -20% +80% 100 vdcw                                                    |
| C608                                                                                                                                                                                                                                                             | 0180-0022        | 3.9 $\mu$ F 35 vdcw                                                                |
| C609                                                                                                                                                                                                                                                             | 0180-0039        | 100 $\mu$ F 12 vdcw                                                                |
| C610                                                                                                                                                                                                                                                             | 0180-0119        | 1 $\mu$ F -10% +100% 25 vdcw                                                       |
| C611                                                                                                                                                                                                                                                             | 0150-0093        | 0.01 $\mu$ F -20% +80% 100 vdcw                                                    |
| C612                                                                                                                                                                                                                                                             | 0180-0156        | 880 $\mu$ F -10% +100% 1 vdcw                                                      |
| C613                                                                                                                                                                                                                                                             | 0180-0039        | 100 $\mu$ F 12 vdcw                                                                |
| CR601                                                                                                                                                                                                                                                            | 1902-0046        | Diode breakdown 7.15 V $\pm$ 10%                                                   |
| CR602                                                                                                                                                                                                                                                            | 1910-0016        | Diode germanium 60 piv                                                             |
| CR603 and CR604                                                                                                                                                                                                                                                  | 1901-0025        | Diode silicon 100 piv                                                              |
| Q601 thru Q603                                                                                                                                                                                                                                                   | 1853-0036        | Transistor silicon PNP 2N3906                                                      |
| Q604                                                                                                                                                                                                                                                             | 1854-0033        | Transistor silicon NPN 2N3391                                                      |
| Q605                                                                                                                                                                                                                                                             | 1853-0016        | Transistor silicon PNP 2N3638                                                      |
| R601                                                                                                                                                                                                                                                             | 0683-3335        | 33 k $\Omega$ $\pm$ 5% 1/4 W                                                       |
| R602 thru R605                                                                                                                                                                                                                                                   | 0683-6825        | 6800 $\Omega$ $\pm$ 5% 1/4 W                                                       |
| R606                                                                                                                                                                                                                                                             | 0683-3325        | 3300 $\Omega$ $\pm$ 5% 1/4 W                                                       |
| R607                                                                                                                                                                                                                                                             | 0683-8225        | 8200 $\Omega$ $\pm$ 5% 1/4 W                                                       |
| R608                                                                                                                                                                                                                                                             | 0683-1035        | 10 k $\Omega$ $\pm$ 5% 1/4 W                                                       |
| R609                                                                                                                                                                                                                                                             | 0683-5605        | 56 $\Omega$ $\pm$ 5% 1/4 W                                                         |
| R610                                                                                                                                                                                                                                                             | 0683-3915        | 390 $\Omega$ $\pm$ 5% 1/4 W                                                        |
| R611 thru R614                                                                                                                                                                                                                                                   | Not assigned     |                                                                                    |
| R615                                                                                                                                                                                                                                                             | 0683-3335        | 33 k $\Omega$ $\pm$ 5% 1/4 W                                                       |
| R616                                                                                                                                                                                                                                                             | 0683-2235        | 22 k $\Omega$ $\pm$ 5% 1/4 W                                                       |
| R617                                                                                                                                                                                                                                                             | 0758-0043        | 1800 $\Omega$ $\pm$ 5% 1/4 W                                                       |
| R618                                                                                                                                                                                                                                                             | 0727-0100        | 1000 $\Omega$ $\pm$ 1% 1/2 W                                                       |
| R619                                                                                                                                                                                                                                                             | 0727-0063        | 292.4 $\Omega$ $\pm$ 1% 1/2 W                                                      |