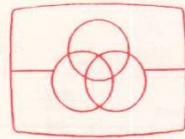


Service  
Service  
Service

## Clockradio D3100

30/30B/30L/30X/32X/35B/35L

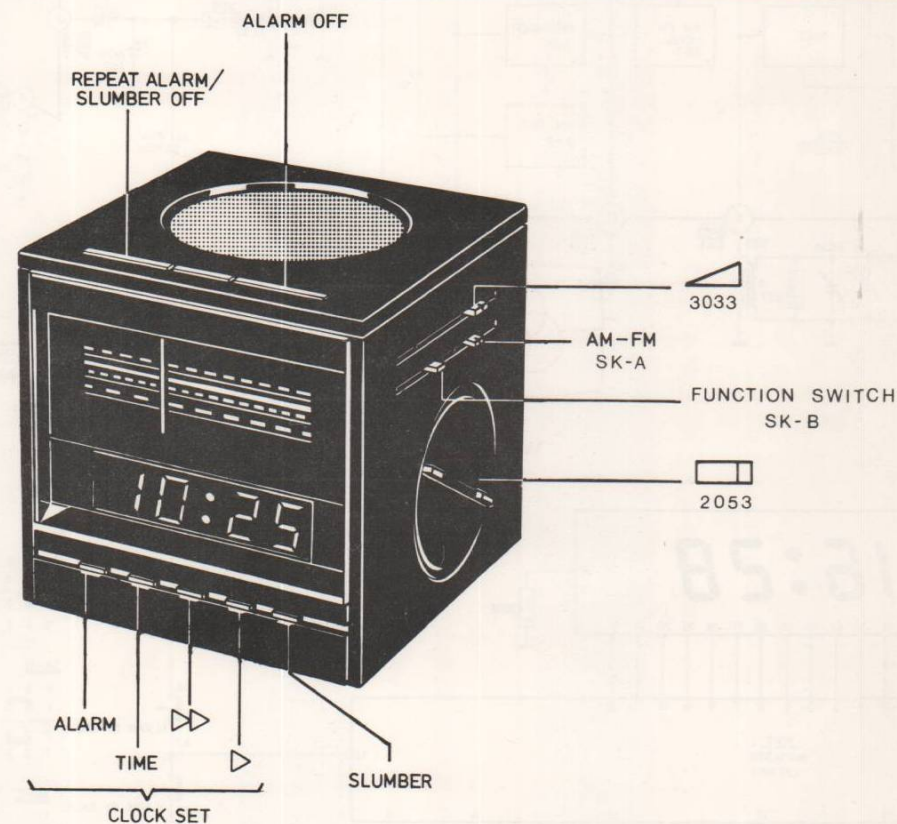


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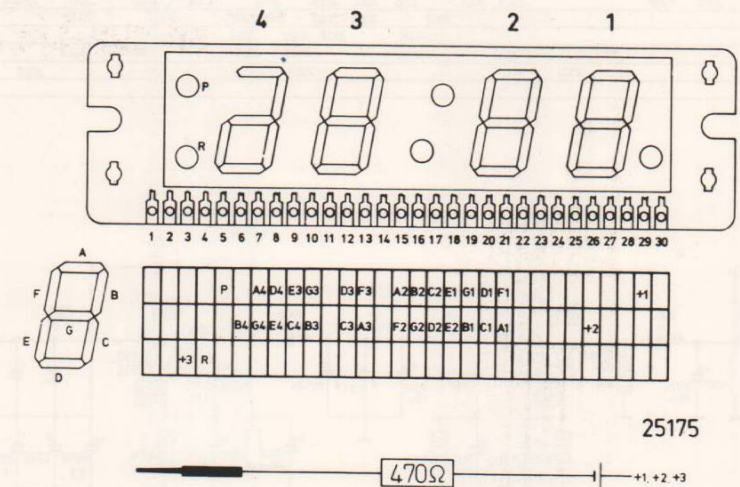
# Service Manual



### Specification

MW : 520-1605KHz (577-187m)  
FM : 87.5-108MHz  
IF-AM : 468KHz  
IF-FM : 10.7MHz

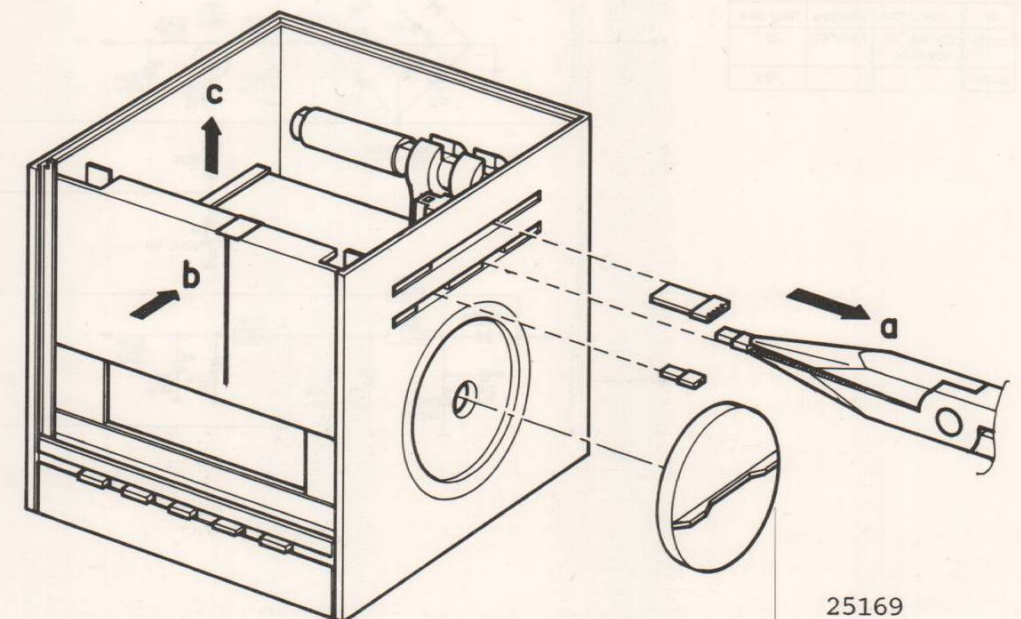
8Ω : 250mW±1dB (THD=10%)  
~ : 220V 50Hz  
240V 50Hz /35B/35L  
CLOCK : 24hrs



|        |    |  |    |                                      |
|--------|----|--|----|--------------------------------------|
| B3, G3 | 1  |  | 22 | B4, PM                               |
| C3, D3 | 2  |  | 21 | A4, D4, E4, G4                       |
| A3, F3 | 3  |  | 20 | C4, E3                               |
| Vss    | 4  |  | 19 | Slumber out                          |
| F2, A2 | 5  |  | 18 | 50 Hz input                          |
| B2, G2 | 6  |  | 17 | Alarm off/Alarm on/Slumber set       |
| D2, C2 | 7  |  | 16 | Ext RC                               |
| E2, E1 | 8  |  | 15 | Vdd                                  |
| B1, G1 | 9  |  | 14 | Time set/Run/Alarm set               |
| C1, D1 | 10 |  | 13 | Fast set (repeat alarm)/Run/Slow set |
| A1, F1 | 11 |  | 12 | Alarm tone out                       |

TOP VIEW

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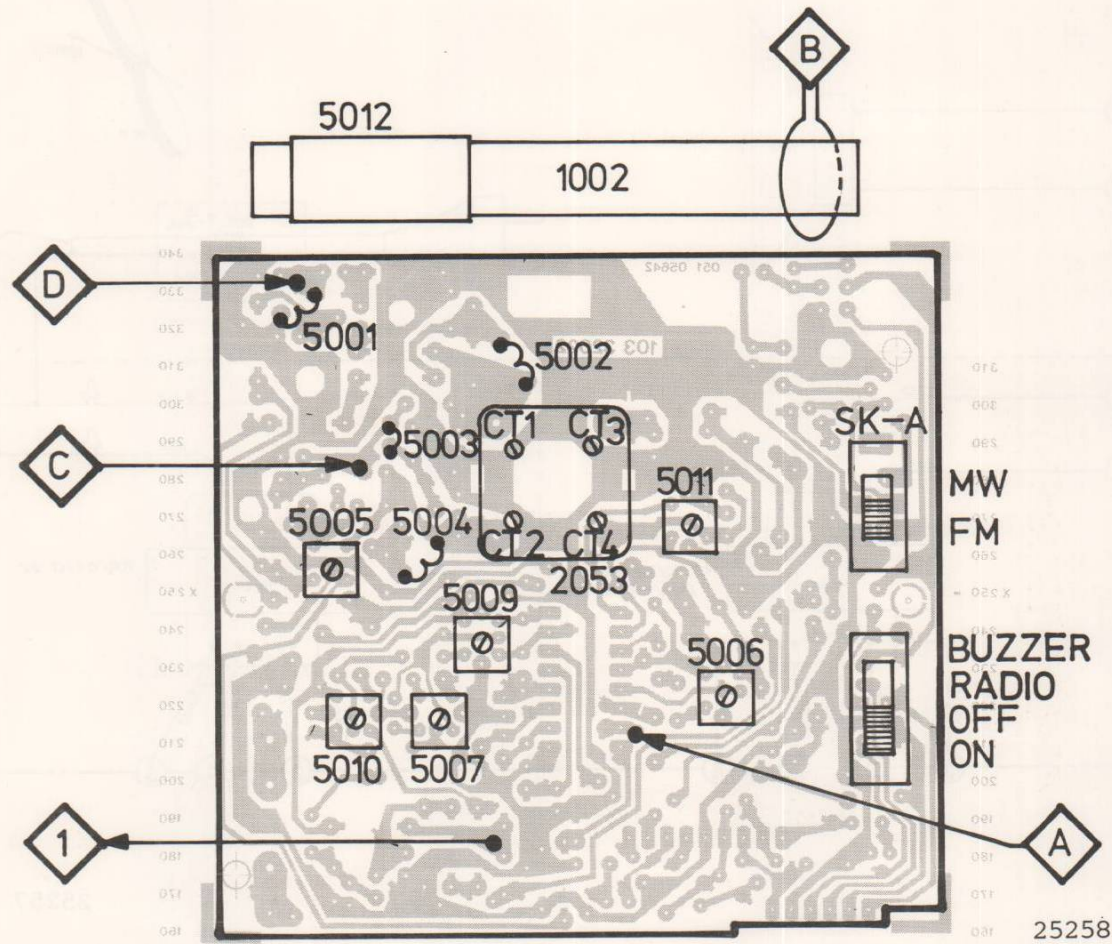
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|                              |                                      |  |      |      |      |  |                               |
|------------------------------|--------------------------------------|--|------|------|------|--|-------------------------------|
|                              |                                      |  |      |      |      |  |                               |
| MW/PO<br>(520-1605KHz)       | 468KHz *                             |  | min. |      | 5006 |  | max.                          |
|                              | via 10nF                             |  |      |      | 5007 |  |                               |
|                              | 512KHz *                             |  | max. |      | 5011 |  | max.                          |
|                              | 1635KHz *                            |  | min. |      | CT4  |  |                               |
|                              | 550KHz *                             |  |      |      | 5012 |  |                               |
| FM<br>87.5-108MHz<br>AFC off | 1500KHz *                            |  | min. | 5010 | CT3  |  | max.                          |
|                              | 10.7MHz                              |  |      |      | 5005 |  |                               |
|                              | via 10nF                             |  |      |      | 5009 |  |                               |
|                              | $\Delta f = 200\text{KHz}$<br>(50Hz) |  |      |      |      |  |                               |
|                              | 86.5MHz *                            |  |      |      |      |  |                               |
|                              | 109MHz *                             |  | max. |      | 5004 |  | max.                          |
|                              | 88MHz *                              |  | min. |      | CT2  |  |                               |
|                              | 106MHz *                             |  |      |      | 5002 |  |                               |
|                              |                                      |  |      |      | CT1  |  |                               |
| Clock freq.<br>AC=0V,DC=9V   |                                      |  |      |      |      |  | $f_{\text{2}}=50/60\text{Hz}$ |

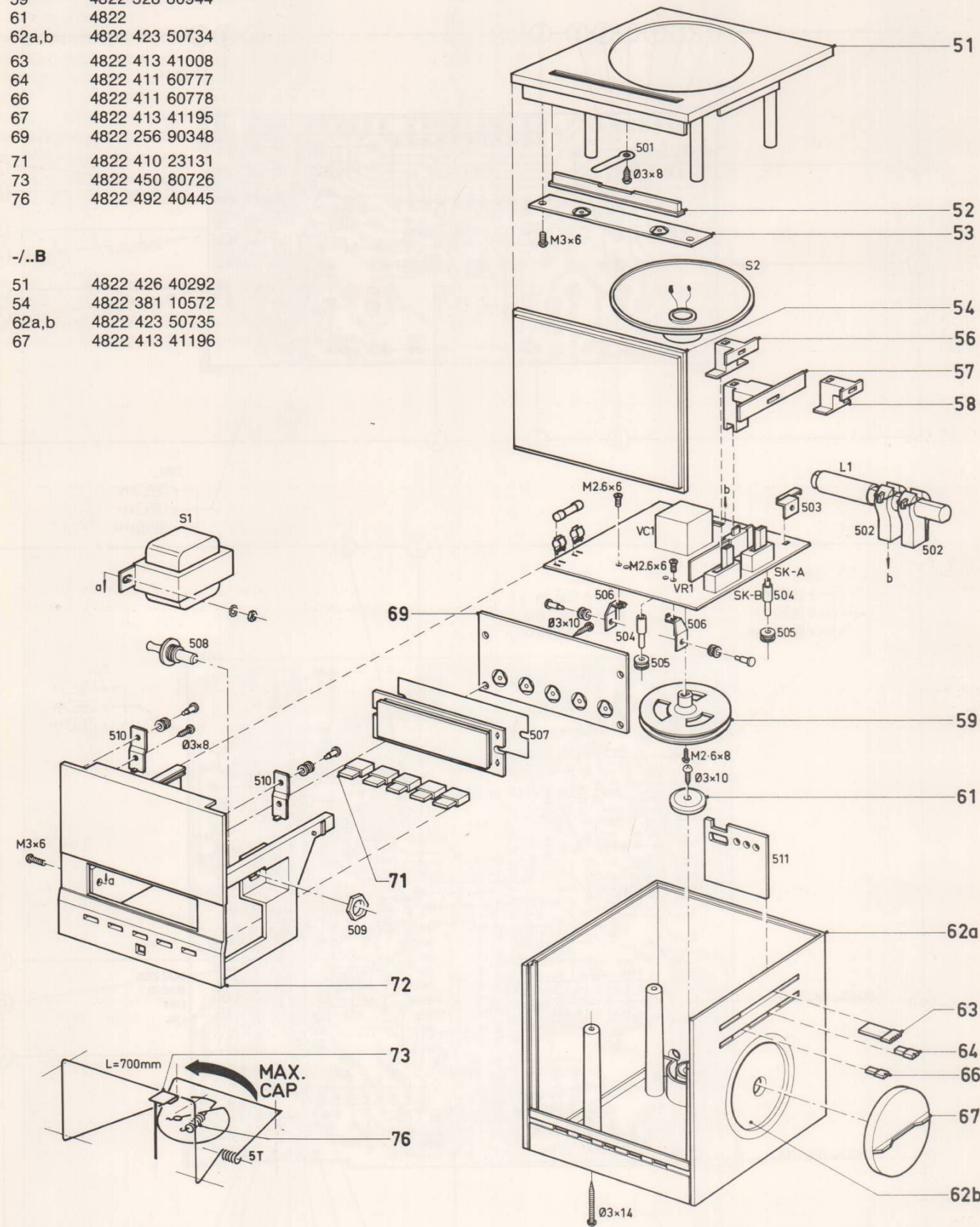
Repeat \* MOD: 1KHz  
+ -/32X = 87.4,107.5MHz



|       |                |                |
|-------|----------------|----------------|
| 51    | 4822 426 40287 | -/..L          |
| 52    | 4822 410 23129 |                |
| 53    | 4822 214 50329 | 51             |
| 54    | 4822 381 10672 | 54             |
| 56    | 4822 411 60952 | 62a,b          |
| 57    | 4822 411 60949 | 67             |
| 58    | 4822 411 60951 | 4822 426 40293 |
| 59    | 4822 528 80944 | 4822 381 10672 |
| 61    | 4822           | 4822 423 50736 |
| 62a,b | 4822 423 50734 | 4822 413 41197 |
| 63    | 4822 413 41008 |                |
| 64    | 4822 411 60777 |                |
| 66    | 4822 411 60778 |                |
| 67    | 4822 413 41195 |                |
| 69    | 4822 256 90348 |                |
| 71    | 4822 410 23131 |                |
| 73    | 4822 450 80726 |                |
| 76    | 4822 492 40445 |                |

|       |                |
|-------|----------------|
| -/..B |                |
| 51    | 4822 426 40292 |
| 54    | 4822 381 10572 |
| 62a,b | 4822 423 50735 |
| 67    | 4822 413 41196 |

|       |                |
|-------|----------------|
| -/..X |                |
| 51    | 4822 426 40286 |
| 54    | 4822 381 10572 |
| 62a,b | 4822 423 50727 |
| 67    | 4822 413 41183 |



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|             |                 |                |                 |                    |                |
|-------------|-----------------|----------------|-----------------|--------------------|----------------|
| -TS-        |                 |                | -L-             |                    |                |
| 7001,7002   | 1502B           | 4822 130 40947 | 5003            | IF trap coil       | 4822 153 10341 |
| 7003        | 1802L           | 4822 130 44104 | 5005            | FM IFT             | 4822 153 50211 |
| 7021        | 1402E           | 4822 130 44196 | 5006,5007       | AM IFT             | 4822 153 10338 |
| -IC-        |                 |                | 5008            | Cer. filter 10.7 M | 4822 242 70249 |
|             |                 |                | 5009            | FM IFT-pri         | 4822 156 40857 |
|             |                 |                | 5010            | FM IFT-sec         | 4822 156 40858 |
|             |                 |                | 5011            | MW coil-osc        | 4822 153 10299 |
|             |                 |                | 5012            | MW coil            | 4822 156 40859 |
| 7014        | TEA5570         | 4822 209 81563 | -Miscellaneous- |                    |                |
| 7015        | TA7313AP        | 4822 209 80411 |                 |                    |                |
| 7017        | MM5457N         | 4822 209 10122 |                 |                    |                |
| -D-         |                 |                |                 |                    |                |
|             |                 |                |                 |                    |                |
|             |                 |                |                 |                    |                |
|             |                 |                |                 |                    |                |
|             |                 |                |                 |                    |                |
| 7005        | 1K60            | 4822 130 31232 | SK-A            | Band switch        | 4822 277 20876 |
| 7006,7007   | 2-1K60          | 4822 130 31232 | SK-B            | Function switch    | 4822 277 20877 |
| 7008,7009   |                 |                | 1002            | Ferrite bar        | 4822 526 10249 |
| 7010,7011   | 1N4001          | 4822 130 31438 | 1004            | Transformer        | 4822 146 40337 |
| 7012        |                 |                | 1004-/35B }     | Transformer        | 4822 146 40341 |
| 7013        | BZX79-C8V2      | 4822 130 34382 | -/35L           |                    |                |
| 7018,7019 } |                 |                | 1005            | Loudspeaker        | 4822 240 30106 |
| 7020 }      | BA317           | 4822 130 30847 | 3033            | Slide volume       | 4822 105 10456 |
| 7016        |                 |                | 7016            | Display CQ232E     | 4822 130 90101 |
| -C-         |                 |                |                 |                    |                |
|             |                 |                |                 |                    |                |
|             |                 |                |                 |                    |                |
|             |                 |                |                 |                    |                |
|             |                 |                |                 |                    |                |
| 2011        | 20 p ± 5% NPO   | 4822 122 31226 |                 |                    |                |
| 2011-/32X   | 24 p ± 5% NPO   | 4822 122 31449 |                 |                    |                |
| 2046        | 5 p ± 0.5 p NPO | 4822 122 31659 |                 |                    |                |
| 2053        | Varco           | 4822 125 30027 |                 |                    |                |

- GB** Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.
- NL** Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.
- F** Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.
- GB** Because, generally speaking, MOS IC's are very sensitive to overload and too high voltages, measurements should be carried out with greatest possible care. For further instructions, see the directions enclosed in the separate IC-packages.
- NL** Omdat MOS IC's in het algemeen zeer gevoelig zijn voor overbelasting en te hoge spanning dient bij het meten de grootst mogelijke zorgvuldigheid in acht genomen te worden. Zie voor verdere instructies de bijsluit in de verpakking van de IC's.
- F** Parce qu'en général, les IC MOS sont très sensibles à la surcharge et à des tensions trop élevées, il faudra procéder aux mesures avec le plus grand soin. Pour plus de détails, voir les instructions accompagnant l'emballage des IC.
- D** Da MOS IC's im allgemeinen sehr empfindlich gegen Überbelastung und zu hohe Spannung sind, muss man beim Messen äusserst vorsichtig vorgehen. Für weitere Weisungen siehe den beigefügten Zettel in der Verpackung der IC's.
- I** Dato che gli IC MOS sono molto sensibili alla sovraccarica e alle tensioni troppo alte, occorrerà procedere alle misure con particolare cautela. Per altri particolari riferirsi alla istruzioni comprese nell'imballaggio di ogni IC.