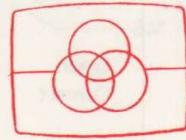


## Automatic Hi-Fi Record player-amplifier 22 AF 574/00

Service  
Service  
Service



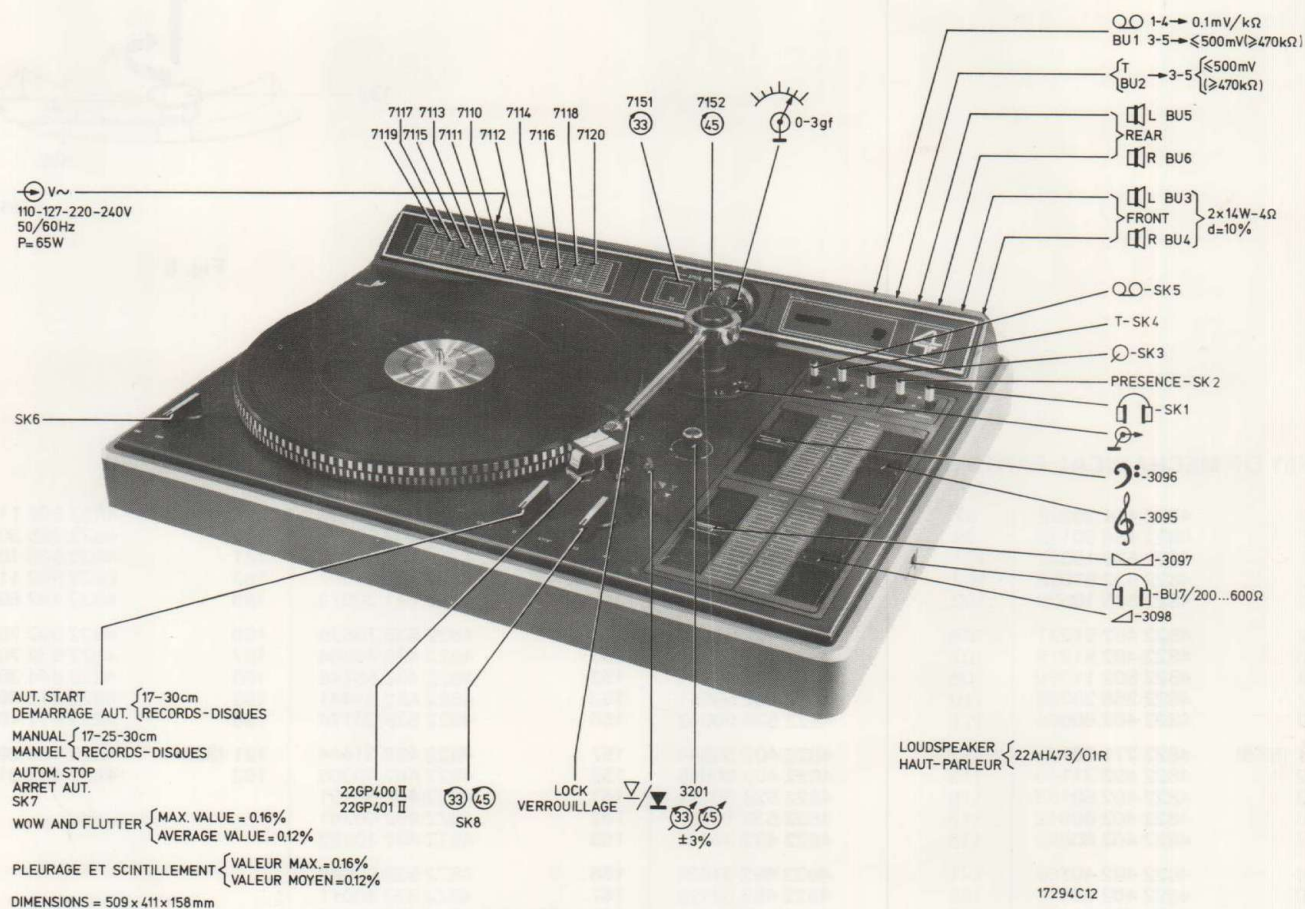
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# Service Manual

For description of the operation see 22AF073/00 part I



## MECHANICAL ADJUSTMENTS REGLAGES D'ORDRE MECANIQUE

### TURNTABLE HEIGHT HAUTEUR DU PLATEAU

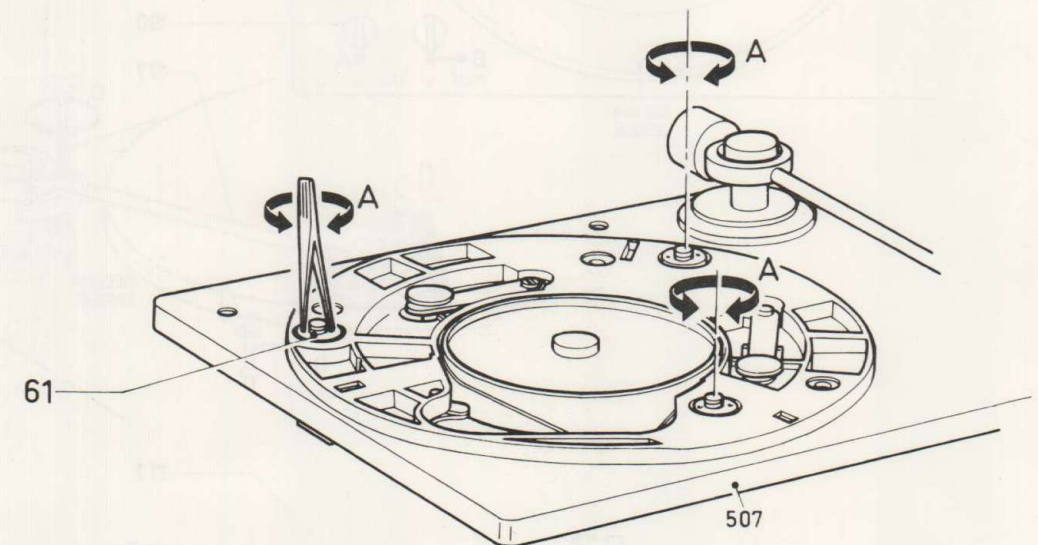
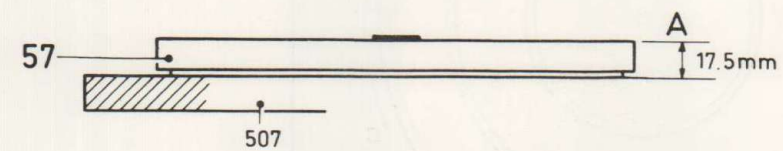
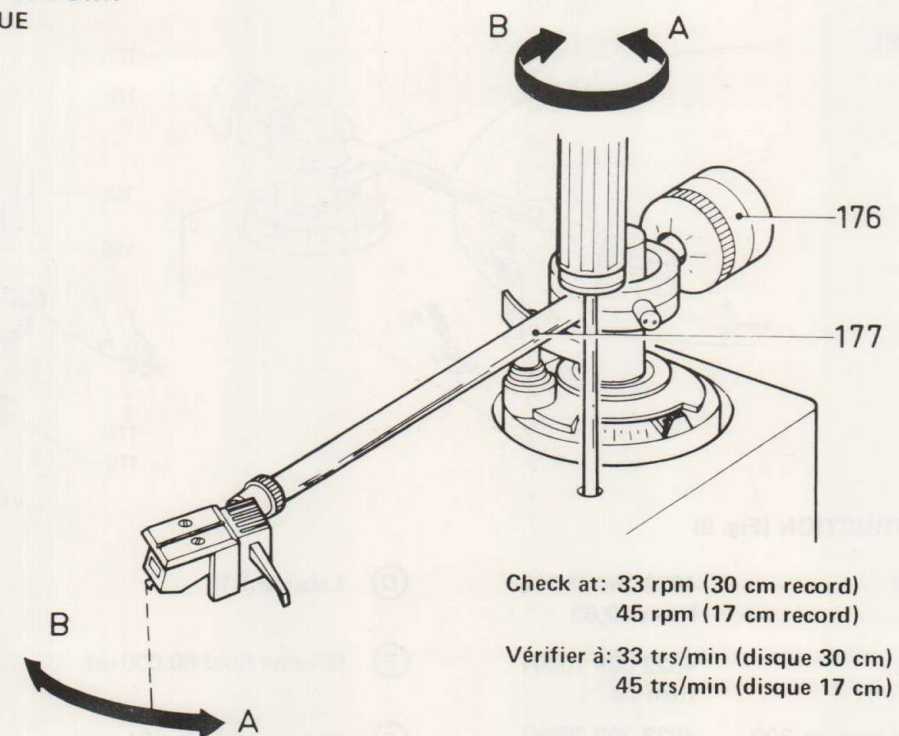


Fig. 1

15860B12

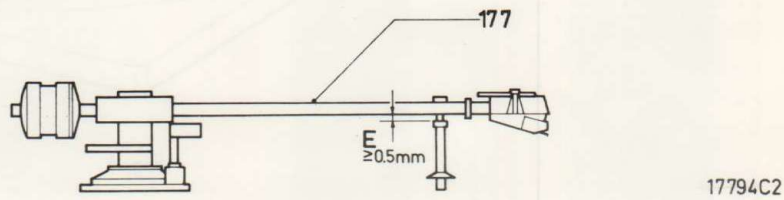
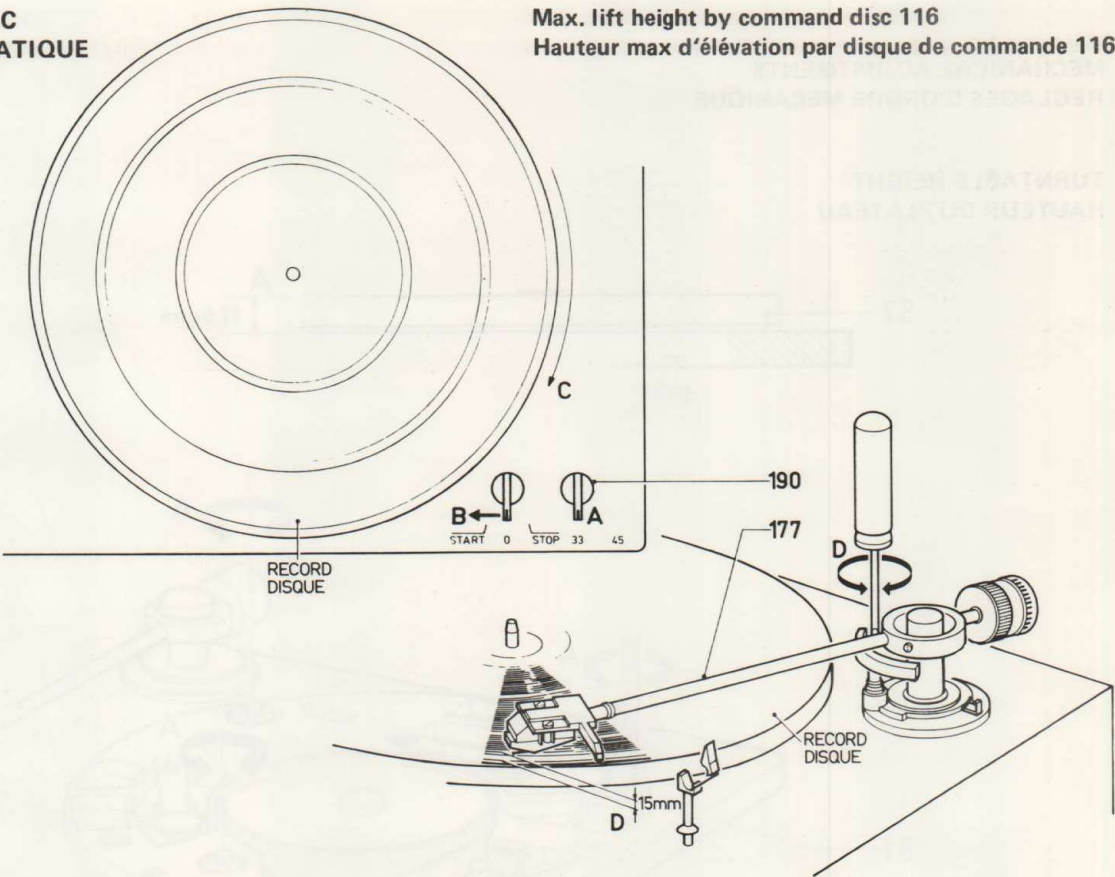
### AUTOMATIC SETTING DOWN POSE AUTOMATIQUE



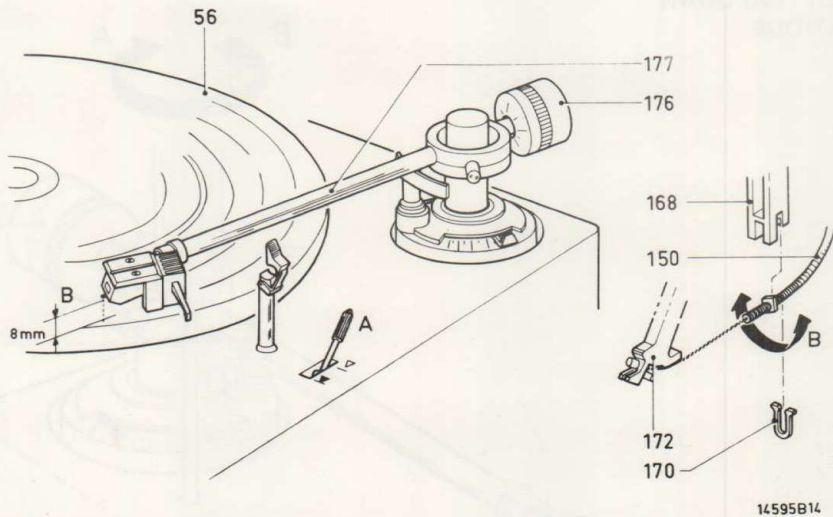
14596B14

Fig. 2

1 LIFT AUTOMATIC  
LEVIER AUTOMATIQUE



2 LIFT MANUAL  
LEVIER MANUEL



LUBRICATING INSTRUCTION (Fig. 9)

|   |                            |                                                         |   |                           |                                    |
|---|----------------------------|---------------------------------------------------------|---|---------------------------|------------------------------------|
| A | All purpose oil            | 4822 390 10048<br>Items 62,63                           | D | Lubricant 10              | 4822 390 10003<br>Items 96,512     |
|   |                            |                                                         |   |                           |                                    |
| B | Shell Alvania II           | 4822 389 10001<br>Item 76                               | E | Silicone fluid 60.000 cst | 4822 390 10045<br>Item 148         |
|   |                            |                                                         |   |                           |                                    |
| C | Silicone grease medium 300 | 4822 390 20031<br>Items 110,152,<br>162,163,<br>508,515 | F | Mobil oil S.H.C. 634      | 4822 390 10074<br>Items 60,140,514 |
|   |                            |                                                         |   |                           |                                    |

SWITCH 147  
COMMUTATEUR 147

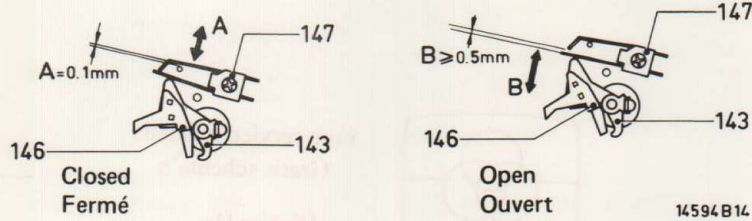


Fig. 5

SPEED ADJUSTMENT  
REGLAGE DE LA VITESSE

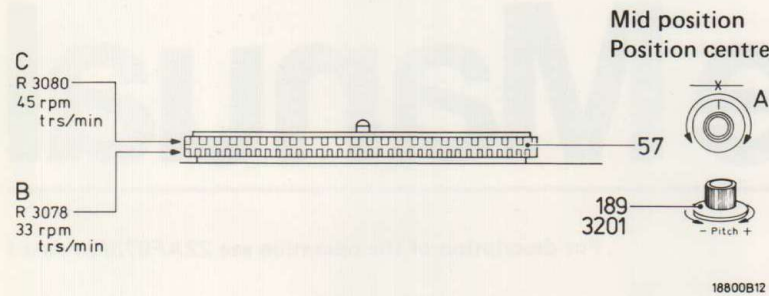


Fig. 7

MUTING SWITCH 98  
INTERRUPTEUR DE COURT CIRCUIT 98

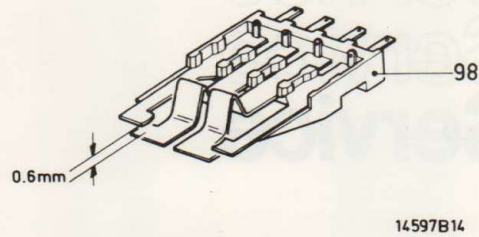


Fig. 6

REPAIR HINT  
CONSEIL REPARATION

DEMOUNTING PIN 133  
BROCHE DE DEMONTAGE 133

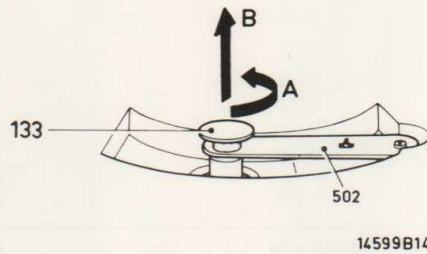
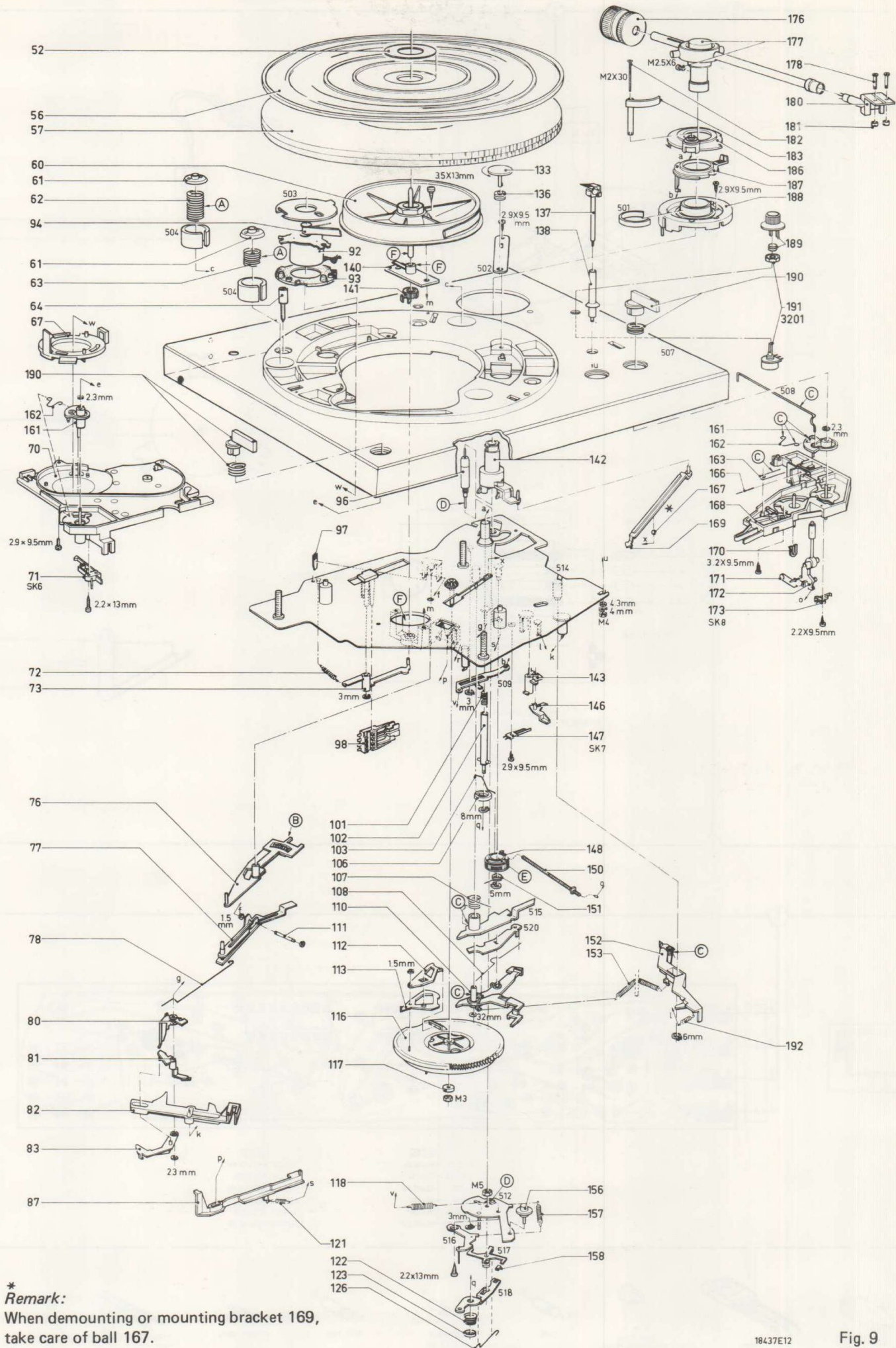


Fig. 8

LIST OF MECHANICAL PARTS (Fig. 9)

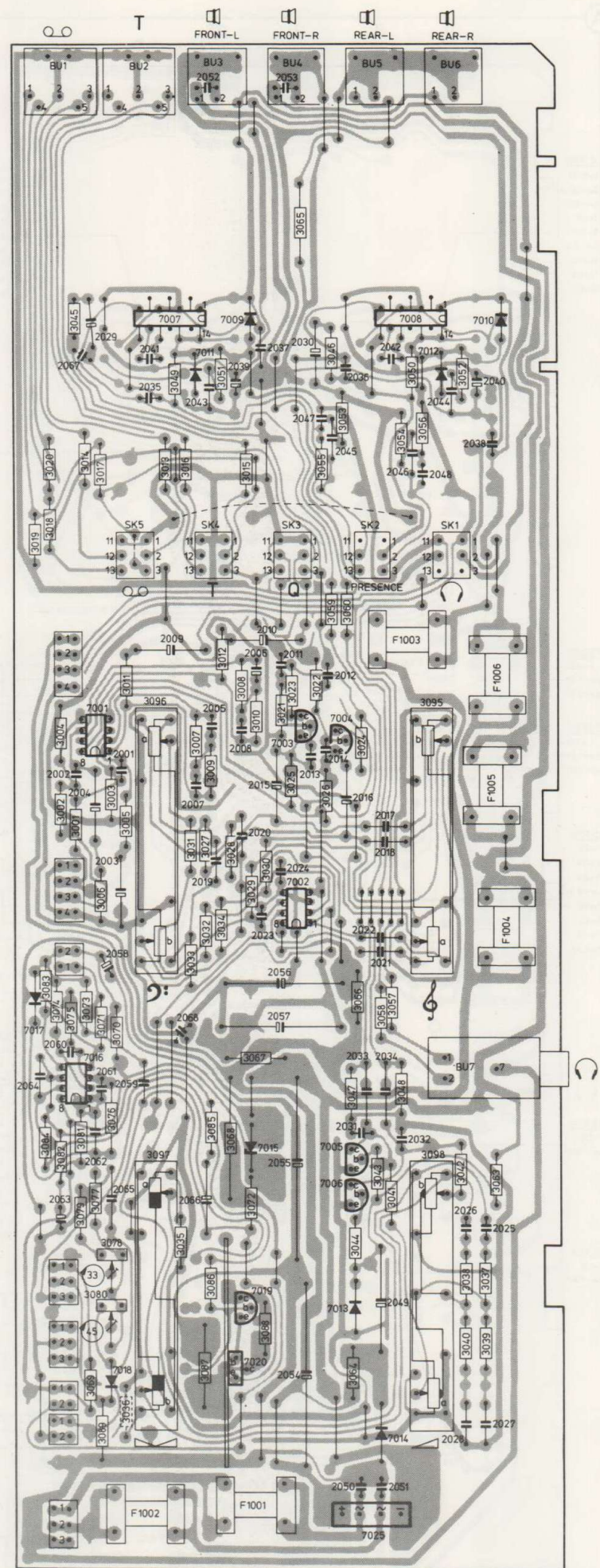
|          |                |     |                |             |                |            |                |
|----------|----------------|-----|----------------|-------------|----------------|------------|----------------|
| 52       | 4822 454 30278 | 97  | 4822 492 62127 | 142         | 4822 520 10393 | 178        | 4822 502 11378 |
| 56       | 4822 466 50129 | 98  | 4822 278 90334 | 143         | 4822 402 50152 | 180        | 4822 265 30145 |
| 57       | 4822 528 10332 | 101 | 4822 492 51218 | 146         | 4822 402 30103 | 181        | 4822 505 10578 |
| 60       | 4822 532 51098 | 102 | 4822 535 70524 | 147 (SK7)   | 4822 278 90007 | 182        | 4822 502 11377 |
| 61       | 4822 505 10579 | 103 | 4822 402 60654 | 148         | 4822 691 30073 | 183        | 4822 402 60652 |
| 62       | 4822 492 51221 | 106 | 4822 402 60653 | 150         | 4822 535 70525 | 186        | 4822 532 70156 |
| 63       | 4822 492 51219 | 107 | 4822 492 40763 | 151         | 4822 492 40764 | 187        | 4822 532 70155 |
| 64       | 4822 502 11396 | 108 | 4822 492 62174 | 152         | 4822 402 50149 | 188        | 4822 444 30246 |
| 67       | 4822 266 20068 | 110 | 4822 402 60651 | 153         | 4822 492 31441 | 189        | 4822 413 40775 |
| 70       | 4822 402 60694 | 111 | 4822 535 60042 | 156         | 4822 528 30174 | 190        | 4822 411 40022 |
| 71 (SK6) | 4822 271 30195 | 112 | 4822 402 60644 | 157         | 4822 492 31444 | 191 (3201) | 4822 101 20533 |
| 72       | 4822 492 31146 | 113 | 4822 402 60645 | 158         | 4822 462 40355 | 192        | 4822 492 31445 |
| 73       | 4822 402 50153 | 116 | 4822 528 60111 | 161         | 4822 402 50151 |            |                |
| 76       | 4822 402 60642 | 117 | 4822 532 10767 | 162         | 4822 492 40761 |            |                |
| 77       | 4822 402 60643 | 118 | 4822 492 31443 | 163         | 4822 492 40762 |            |                |
| 78       | 4822 492 40759 | 121 | 4822 492 31439 | 166         | 4822 529 50096 |            |                |
| 80       | 4822 402 60647 | 122 | 4822 492 62125 | 167         | 4822 520 40011 |            |                |
| 81       | 4822 402 60648 | 123 | 4822 532 20674 | 168+166+172 | 4822 402 50148 |            |                |
| 82       | 4822 402 30102 | 126 | 4822 492 40765 | 169         | 4822 402 60639 |            |                |
| 83       | 4822 402 60649 | 133 | 4822 535 70523 | 170         | 4822 530 70237 |            |                |
| 87       | 4822 402 60646 | 136 | 4822 325 80066 | 171         | 4822 492 40766 |            |                |
| 92       | 4822 361 30107 | 137 | 4822 256 90263 | 172         | 4822 402 60641 |            |                |
| 93       | 4822 462 40361 | 138 | 4822 535 70526 | 173 (SK8)   | 4822 277 10398 |            |                |
| 94       | 4822 358 30262 | 140 | 4822 520 10425 | 176         | 4822 691 30074 |            |                |
| 96       | 4822 535 91101 | 141 | 4822 268 10131 | 177         | 4822 251 70163 |            |                |



18437E12

Fig. 9

| MISC | C    | R    |
|------|------|------|
| BU1  |      |      |
| BU6  | 2052 |      |
|      | 2053 |      |
|      |      | 3065 |
| 7008 |      | 3045 |
| 7007 | 2029 |      |
| 7009 | 2030 |      |
| 7012 | 2039 | 3046 |
|      |      | 3049 |
|      | 2044 | 3056 |
|      | 2067 |      |
|      | 2035 |      |
|      | 2038 |      |
|      | 2045 |      |
|      | 2048 |      |
|      |      | 3013 |
|      |      | 3020 |
| SK-1 |      |      |
| SK-5 |      |      |
|      |      | 3060 |
|      |      | 3059 |
|      | 2006 | 3010 |
|      | 2009 |      |
| 1003 | 2012 | 3012 |
|      |      | 3021 |
| 1006 |      | 3026 |
| 7001 | 2005 | 3007 |
| 7004 | 2008 |      |
| 7003 | 2001 | 3009 |
|      | 2002 | 3095 |
|      | 2003 | 3096 |
|      | 2013 | 3001 |
|      | 2016 |      |
|      | 2007 | 3005 |
|      | 2004 |      |
| 1005 |      |      |
|      | 2017 | 3027 |
|      | 2020 |      |
|      |      | 3031 |
|      |      | 3006 |
| 7002 | 2003 |      |
|      |      | 3032 |
|      | 2021 | 3034 |
| 1004 | 2023 |      |
|      |      | 3083 |
|      | 2058 | 3057 |
|      | 2056 | 3058 |
|      |      | 3070 |
| 7017 | 2057 | 3073 |
|      | 2068 |      |
|      | 2034 | 3075 |
|      | 2033 | 3067 |
|      | 2059 |      |
| 7016 | 2061 | 3076 |
| BU7  | 2064 | 3079 |
|      |      | 3085 |
|      |      | 3088 |
|      |      | 3097 |
|      | 2031 | 3098 |
|      | 2032 | 3081 |
| 7005 | 2062 | 3084 |
| 7015 | 2055 | 3082 |
|      |      | 3063 |
|      |      | 3041 |
| 7006 | 2065 | 3044 |
|      | 2066 | 3072 |
|      | 2063 | 3077 |
|      | 2026 |      |
|      | 2025 | 3080 |
|      |      | 3035 |
|      |      | 3037 |
|      |      | 3038 |
|      |      | 3086 |
| 7019 |      |      |
| 7013 | 2049 |      |
|      |      | 3039 |
|      |      | 3040 |
|      |      | 3088 |
| 7020 | 2054 | 3064 |
|      |      | 3087 |
| 7018 |      |      |
|      |      | 3069 |
| 7014 | 2027 | 3036 |
|      | 2028 | 3089 |
|      |      |      |
|      | 2051 |      |
|      | 2050 |      |
| 1001 |      |      |
| 1002 |      |      |
| 7025 |      |      |



REAR-R REAR-L FRONT-R FRONT-L T

BU6 BU5 BU4 BU3 BU2 BU1

IC 7008  
1=16.5V  
3=-16.5V  
5=-16.5V  
7=0V  
8=0V  
9=-15V  
10=14V  
12=0V  
14=0V

IC 7007  
1=16.5V  
3=-16.5V  
5=-16.5V  
7=0V  
8=0V  
9=-15V  
10=14V  
12=0V  
14=0V

TS 7003  
c=78V  
b=-1.8V  
e=-2.5V

TS 7004  
c=78V  
b=-1.8V  
e=-2.5V

IC 7002  
1=0V  
2=0V  
3=0V  
4=-8.3V  
5=0V  
6=0V  
7=0V  
8=8.3V

TS 7005  
c=0V  
b=-16V

TS 7006  
c=0V  
b=-16V

IC 7001  
1=0.13V  
2=0V  
3=0V  
4=-8.3V  
5=0V  
6=0V  
7=0.13V  
8=8.3V

IC 7016  
1=-12.5V  
2=-12.5V  
3=-12.5V  
4=-12.5V  
5=-12.5V  
6=-12.5V  
7=-13.5V  
8=-9.3V

c=-0.38V -0.38V  
b=-14V -13.5V  
e=-14.5V -14V

TS 7020 TS 7019  
c=-0.5V -0.5V  
b=-13.2V -12.7V  
e=-14V -13.5V

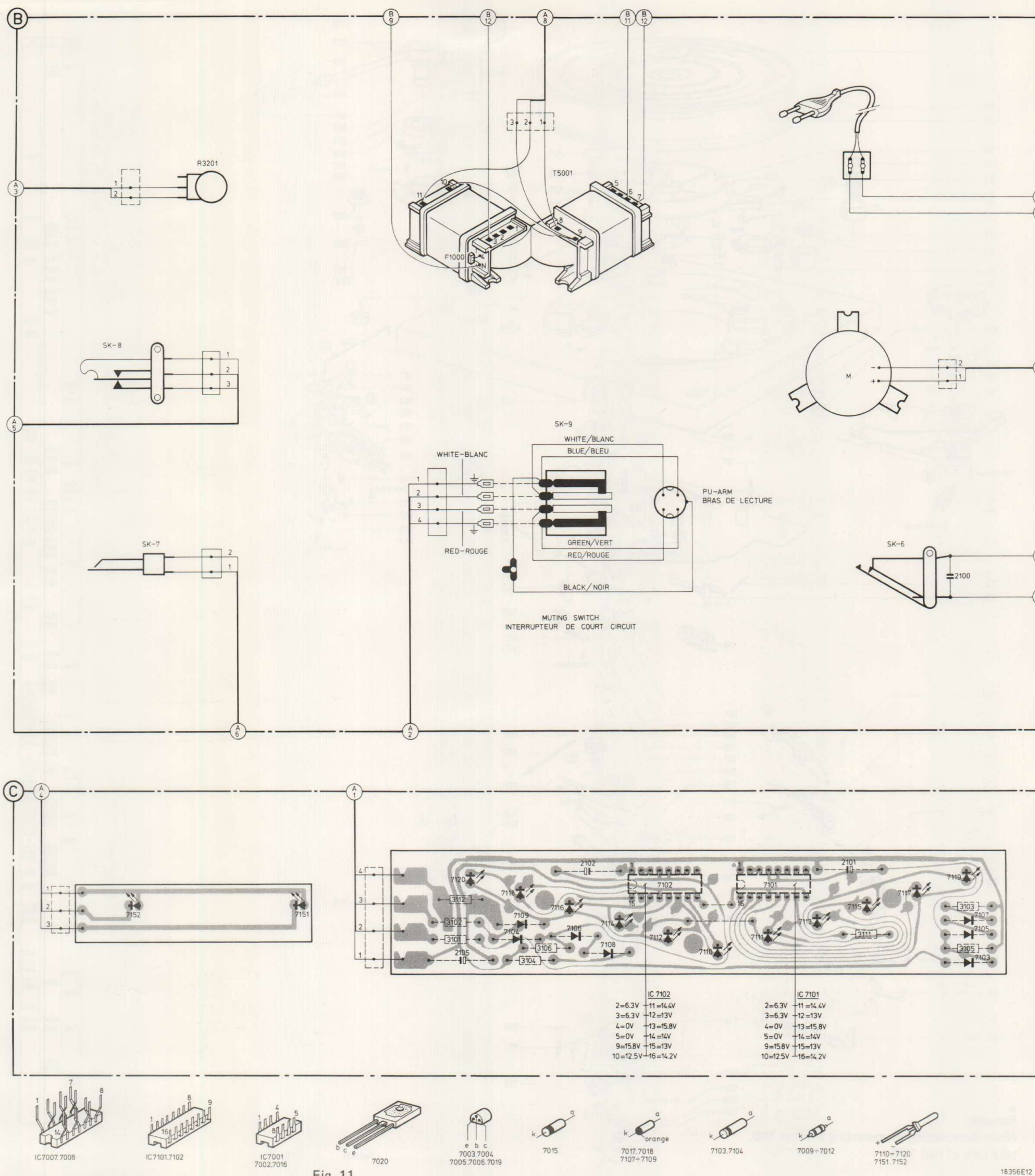


Fig. 11

|      |         |     |             |             |             |      |      |             |             |         |             |       |       |        |        |               |                            |           |                        |           |           |             |                |        |        |             |             |         |             |      |                          |      |             |      |      |      |      |      |      |      |      |      |
|------|---------|-----|-------------|-------------|-------------|------|------|-------------|-------------|---------|-------------|-------|-------|--------|--------|---------------|----------------------------|-----------|------------------------|-----------|-----------|-------------|----------------|--------|--------|-------------|-------------|---------|-------------|------|--------------------------|------|-------------|------|------|------|------|------|------|------|------|------|
| MISC | BU2.SK9 | BU1 | IC7001a     | IC7001b     | SK3         | SK4  | SK5  | TS7003      | TS7004      | IC7002a | IC7002b     | 7014  | 7013  | TS7005 | TS7006 | SK2           | IC7007                     | IC7008    | 7009 + 7012            | BU7       | BU3 + BU6 | SK1         | 7103 + 7108    | IC7101 | IC7102 | 7110 + 7120 | 7109        |         |             |      |                          |      |             |      |      |      |      |      |      |      |      |      |
| C    |         |     | 2001 + 2008 | 2009,2010   |             |      |      | 2011 + 2016 | 2019        | 2020    | SK6.F1000   | T5001 | F1001 | F1002  | 7025   | F1003 + F1008 | SK7                        | 7015      | 2031-2034,2067         | 2035+2038 | 2029      | 2030        | 7151           | SK8    | 7152   | 7018        | 7017        | IC7016a | IC7016b     | 7019 | 7020                     | M    |             |      |      |      |      |      |      |      |      |      |
| R    |         |     | 3001 + 3006 | 3007 + 3010 | 3011 + 3013 | 3015 | 3017 | 3019        | 3021        | 3022    | 3027 + 3034 | 3096a | 3095a | 2100   | 2050   | 2051          | 2054 + 2057                | 2105,2068 | 2035 + 3040,3097a,3064 | 3063      | 3098a     | 3041 + 3044 | 3047,3059,3045 | 3049   | 3053   | 3055        | 3051        | 3052    | 3057        | 3058 | 2052,2053,2060,2062,2061 | 2063 | 2066        | 2064 | 2065 |      |      |      |      |      |      |      |
|      |         |     |             |             | 3016        | 3014 | 3018 | 3020        | 3023 + 3026 |         |             | 3096b | 3095b |        |        |               | 3097b,3066+3068,3112,3098b |           | 3048,3060,3046         | 3050      | 3054      | 3056        | 3069           | 3070   | 3201   | 3071        | 3077 + 3080 | 3089    | 3072 + 3076 | 3101 | 3065                     | 3102 | 3103 + 3106 | 3111 | 3081 | 3082 | 3085 | 3083 | 3084 | 3086 | 3088 | 3087 |

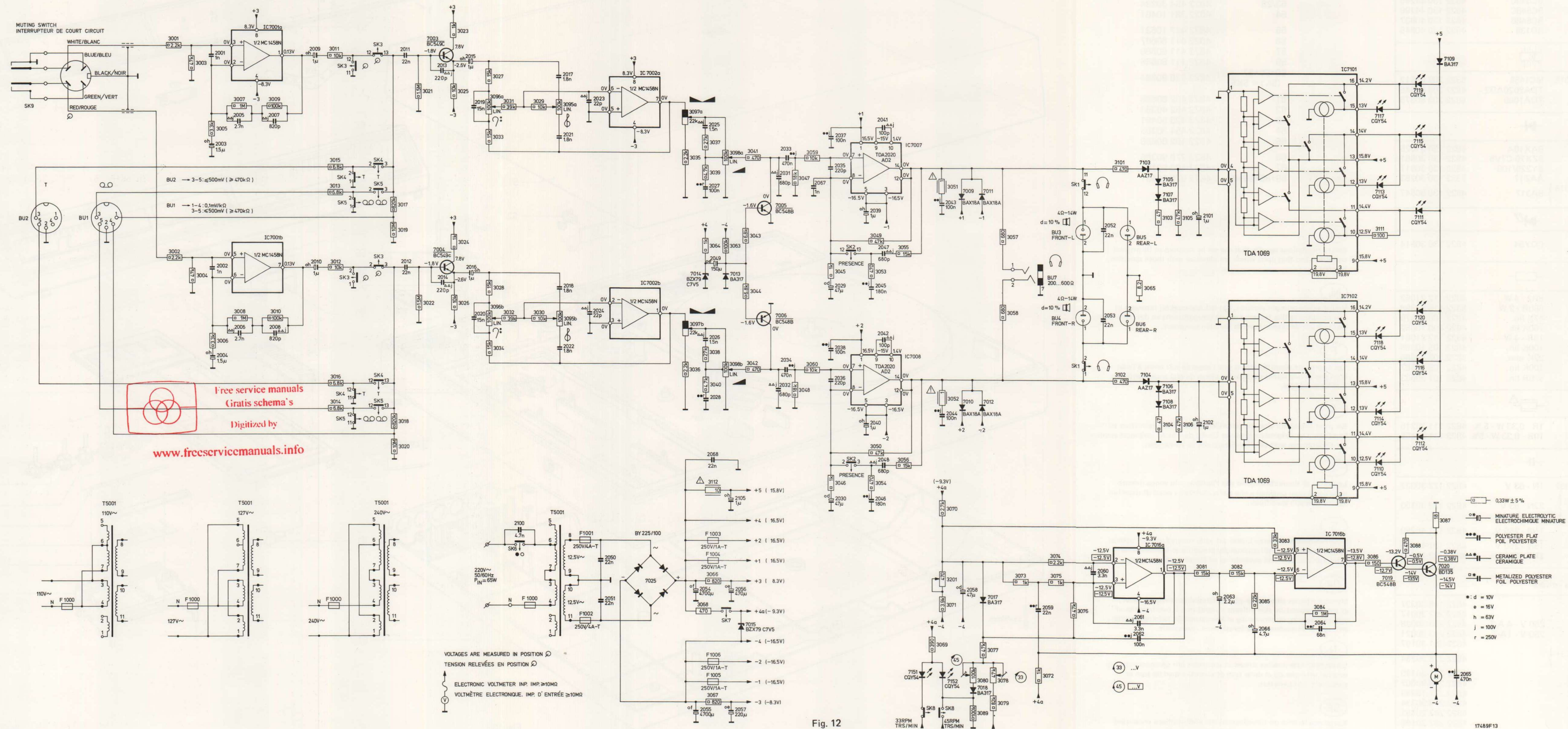


Fig. 12

17489F13

| LIST OF ELECTRICAL PARTS  |                                                                                     |                |
|---------------------------|-------------------------------------------------------------------------------------|----------------|
| -TS-                      |     |                |
| 7003,7004                 | BC549C                                                                              | 4822 130 44246 |
| 7005,7006                 | BC548C                                                                              | 4822 130 44196 |
| 7019                      | BC548B                                                                              | 4822 130 40937 |
| 7020                      | BD135                                                                               | 4822 130 40645 |
| -IC-                      |    |                |
| 7001,7002,7016            | MC1458                                                                              | 5322 209 85512 |
| 7007,7008                 | TDA2020AD2                                                                          | 4822 209 80645 |
| 7101,7102                 | TDA1069                                                                             | 4822 209 80375 |
| -D-                       |    |                |
| 7009 ÷ 7012               | BAX18A                                                                              | 4822 130 31025 |
| 7014,7015                 | BZX79-C7V5                                                                          | 4822 130 30861 |
| 7025                      | BY225/100                                                                           | 4822 130 30917 |
| 7103,7104                 | AAZ17                                                                               | 5322 130 30283 |
| 7013,7017,7018            | BA317                                                                               | 4822 130 30847 |
| 7105 ÷ 7109               |                                                                                     |                |
| -LED-                     |    |                |
| 7110÷7120,<br>7151,7152   | CQY54                                                                               | 4822 130 30914 |
| -R-                       |    |                |
| 3065                      | 8R2 - 4 W                                                                           | 4822 112 21052 |
| 3068                      | 680R - 2 W                                                                          | 5322 116 54398 |
| 3078                      | 47K lin.                                                                            | 4822 100 10079 |
| 3080                      | 100K lin.                                                                           | 4822 100 10052 |
| 3087                      | 18R - 4 W                                                                           | 4822 112 21061 |
| 3095,3096                 | 100K lin.                                                                           | 4822 105 10385 |
| 3097                      | 22K spez.                                                                           | 4822 105 10386 |
| 3098                      | 100K lin.                                                                           | 4822 105 10387 |
| 3201                      | 470R lin.                                                                           | 4822 101 20533 |
| -R-                       |   |                |
| 3051,3052                 | 1R - 0,33 W - 5 %                                                                   | 4822 111 30215 |
| 3112                      | 10R - 0,33 W - 5%                                                                   | 4822 111 30405 |
| -C-                       |  |                |
| 2001,2002,2067            | 1N - 63 V                                                                           | 4822 122 30027 |
| 2011,2012,<br>2050 ÷ 2053 | 22N - 63 V                                                                          | 4822 122 30103 |
| 2068                      |                                                                                     |                |
| 2017,2018,<br>2021,2022   | 1N8 - 250 V                                                                         | 4822 121 40299 |
| 2019,2020                 | 15N - 250 V                                                                         | 4822 121 40406 |
| 2100                      | 4N7 - 300 V                                                                         | 4822 122 10112 |
| -Miscellaneous - divers-  |                                                                                     |                |
| T5001                     |                                                                                     | 4822 146 30337 |
| F1000                     |                                                                                     | 4822 252 20017 |
| F1001,1002                | 250 V - 4 A-T                                                                       | 4822 253 30038 |
| F1003,1006                | 250 V - 1A-T                                                                        | 4822 253 30021 |
| M                         |                                                                                     | 4822 361 30107 |
| SK1+SK2+SK3+<br>SK4+SK5   |                                                                                     | 4822 278 90384 |
| SK6                       |                                                                                     | 4822 271 30195 |
| SK7                       |                                                                                     | 4822 278 90007 |
| SK8                       |                                                                                     | 4822 277 10398 |
| SK9                       |                                                                                     | 4822 278 90334 |
| BU1,2                     |                                                                                     | 4822 267 20181 |
| BU3 ÷ BU6                 |                                                                                     | 4822 267 30198 |
| BU7                       |                                                                                     | 4822 267 30287 |

| LIST OF MECHANICAL PARTS (Fig. 13)                                                                                                                                                                                                                                                |                |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|
| 51                                                                                                                                                                                                                                                                                | 4822 444 20222 |  |
| 52                                                                                                                                                                                                                                                                                | 4822 397 60048 |  |
| 53                                                                                                                                                                                                                                                                                | 4822 454 30283 |  |
| 53/28                                                                                                                                                                                                                                                                             | 4822 454 30284 |  |
| 54                                                                                                                                                                                                                                                                                | 4822 381 10461 |  |
| 55                                                                                                                                                                                                                                                                                | 4822 417 10631 |  |
| 56                                                                                                                                                                                                                                                                                | 4822 411 60687 |  |
| 57                                                                                                                                                                                                                                                                                | 4822 411 60686 |  |
| 59                                                                                                                                                                                                                                                                                | 4822 411 60685 |  |
| 60+56+57<br>(SK1 ÷ SK5)                                                                                                                                                                                                                                                           | 4822 278 90384 |  |
| 61                                                                                                                                                                                                                                                                                | 4822 402 60696 |  |
| 62                                                                                                                                                                                                                                                                                | 4822 462 40353 |  |
| 63                                                                                                                                                                                                                                                                                | 4822 423 50491 |  |
| 64                                                                                                                                                                                                                                                                                | 4822 454 30285 |  |
| 65                                                                                                                                                                                                                                                                                | 4822 402 60695 |  |
| 66                                                                                                                                                                                                                                                                                | 4822 278 90385 |  |
| 67                                                                                                                                                                                                                                                                                | 4822 402 50154 |  |
| 68+65+66+67                                                                                                                                                                                                                                                                       | 4822 520 10431 |  |
| <div><div>GB</div><p>Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.</p></div>                                                                                                    |                |  |
| <div><div>NL</div><p>Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.</p></div>                                                          |                |  |
| <div><div>F</div><p>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.</p></div>                                                                                          |                |  |
| <div><div>D</div><p>Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.</p></div>                                                     |                |  |
| <div><div>I</div><p>Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.</p></div>                                                                                  |                |  |
| <div><div>S</div><p>Säkerhetsbestämmelserna kräver att varje reparation skall utföras korrekt med hänsyn till ursprunglig placering av komponenter, ledningar etc. och med användning av föreskrivna reservdelar.</p></div>                                                       |                |  |
| <div><div>DK</div><p>Myndighedernes sikkerheds- og radiostøjbestemmelser kræver, at enhver reparation skal udføres korrekt m.h.t. overholdelse af originalplacering og montering af komponenter, ledningsbundter, etc. og ved anvendelse af de foreskrevne reservedele.</p></div> |                |  |
| <div><div>N</div><p>Sikkerhetsbestemmelser kreves at apparatet blir gjenopprettet til original utførelse og at deler som er identiske med de som er spesifisert, blir benyttet.</p></div>                                                                                         |                |  |
| <div><div>SF</div><p>Korjatessa laitetta on turvallisuusyysistä ehdottomasti enetetävä oikein ja käytettävä tehtaan määäämiä alkuperäisvaraasia.</p></div>                                                                                                                        |                |  |

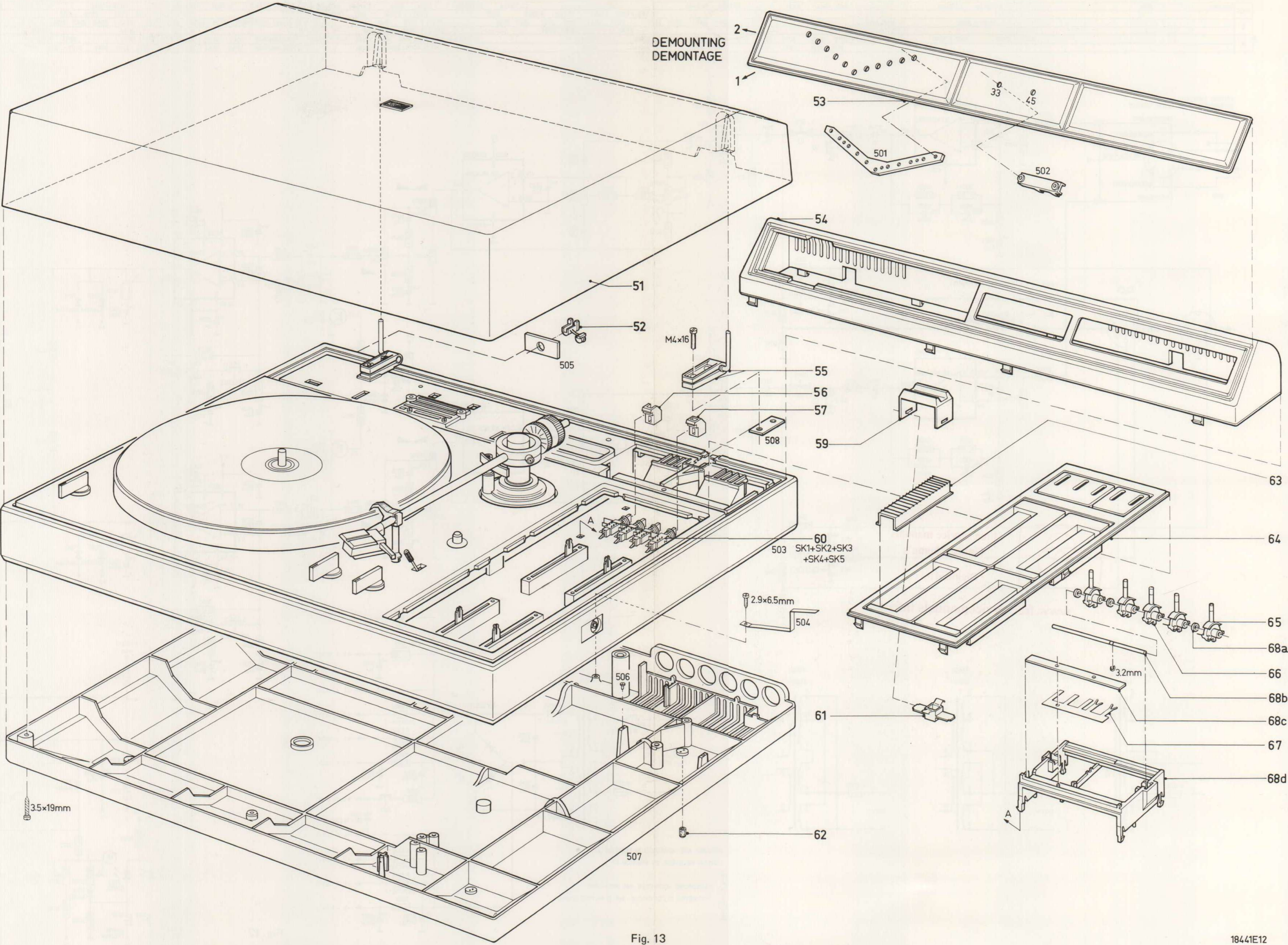


Fig. 13

# Servicemededeling

PHILIPS NEDERLAND - EINDHOVEN  
TECHNISCHE SERVICE

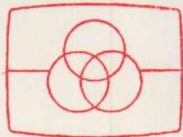
|      |           |      |                                 |       |                |
|------|-----------|------|---------------------------------|-------|----------------|
| Ref. | 82 AF 070 | Type | 22 AF 574/00/28<br>22 AF 674/00 | Datum | september 1982 |
|------|-----------|------|---------------------------------|-------|----------------|

GRAMMOFOON

Bij een defect aan het draaiplateau (pos. 57) 4822 528 10332 dient men het plateau en aandrijfschijf (pos. 60) te vervangen.

Nieuwe bestelnummers:

- |                          |                |
|--------------------------|----------------|
| . draaiplateau pos. 57   | 4822 528 10399 |
| . aandrijfschijf pos. 60 | 4822 532 51171 |



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Gratis schema's

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# Servicemededeling

PHILIPS NEDERLAND B.V. - EINDHOVEN  
TECHNISCHE SERVICE

|      |        |      |           |       |           |
|------|--------|------|-----------|-------|-----------|
| Ref. | 304 PH | Type | 22 AF 574 | Datum | juni 1980 |
|------|--------|------|-----------|-------|-----------|

Vanaf stempeling PW 00 004 is de liftconstructie gewijzigd (zie fig. 1).

- a. nieuwe liftstang 102 - 4822 535 70587
- b. nieuwe nokschijf 106 - 4822 402 60702
- c. nieuwe liftbeugel 77 - 4822 402 60701

Deze beugel is voorzien van een instelschroef; als gevolg hiervan is de instelling voor de "Lift Automatic" (fig. 3 in de servicedocumentatie) als volgt gewijzigd: Afstand D is gewijzigd in 17 mm. Na instelling volgens fig. 3 moet de afstand tussen naald en plaat met de schroef op liftbeugel 77 worden ingesteld op 14 mm.

Opmerking:

De oude en nieuwe onderdelen die genoemd zijn bij a.b. en c, kunnen onderling niet worden uitgewisseld.

De oude onderdelen blijven normaal leverbaar.

- d. Plaatje 521 met schroef 2,2 x 6,5 mm is toegevoegd.
- e. Met het oog op bovengenoemde wijzigingen zijn tevens het subchassis 514 en de beugels 509 en 518 toegevoegd.



# Service mededeling

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Ref. 259 PH

Type 22AF574

Datum februari 1980

GRAMMOFOON

betr. wijziging elektrische onderdelen

Vanaf stempeling PW 00-925 zijn onderstaande onderdelen gewijzigd:

- a R3059-R3060 in 1 Kohm,  $1/8$  W  $\pm$  5%
- b C2068 in 1 nF-63V; 4822 122 30027



# PHILIPS