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41 262 A12

# Service Manual

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### ESD



Alle IC's en vele andere halfgeleiders zijn gevoelig voor elektrostatische ontladingen (ESD).  
 Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen.  
 Zorg ervoor, dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.  
 Houd componenten en hulpmiddelen ook op hetzelfde potentiaal.

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

Documentation Technique Service Dokumentation Documentazione di Servizio Huolto-Ohje Manual de Servicio Manual de Servicio



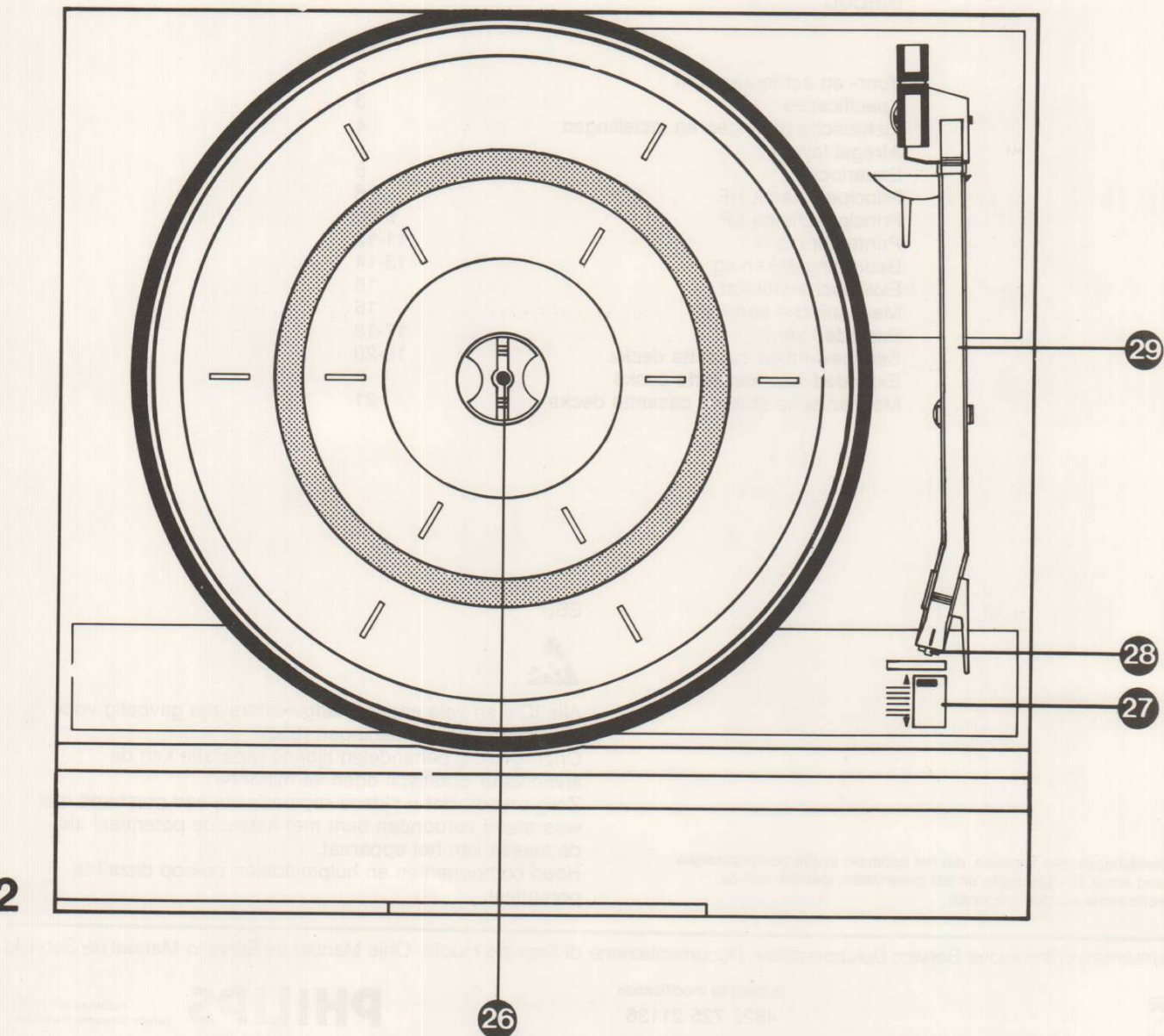
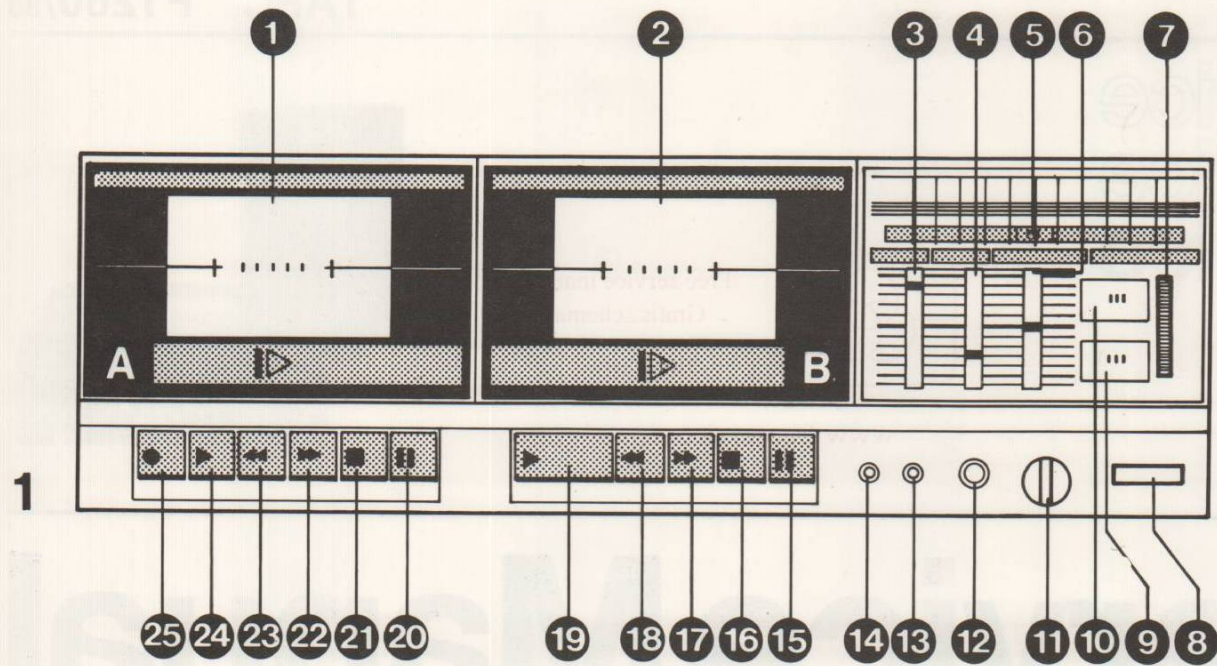
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CS 5 311 NL



**BEDIENINGSORGANEN EN FUNCTIES**

Fig. 1 en 2

- |  |                               |
|--|-------------------------------|
| 1 Cassettevak A  | 15 Pauzetoets                 |
| 2 Cassettevak B  | 16 Stop-/uitwerptoets         |
| 3 Geluidssterkteregelaar                                   | 17 Snelspoeltoets (vooruit)   |
| 4 Balansregelaar   | 18 Snelspoeltoets (achteruit) |
| 5 'Aan/uit'-indicator; tevens schaalverlichting voor tuner | 19 Weergeef-/starttoets       |
| 6 Klankkleurregelaar                                       | 20 Pauzetoets                 |
| 7 Afstemknop   | 21 Stop-/uitwerptoets         |
| 8 'Aan/uit'-schakelaar                                     | 22 Snelspoeltoets (vooruit)   |
| 9 FM stereo-indicator                                      | 23 Snelspoeltoets (achteruit) |
| 10 Opneemsterkteregelaar                                   | 24 Weergeef-/starttoets       |
| 11 Functieschakelaar                                       | 25 Opneemtoets                |
| 12 Aansluiting voor koptelefoon                            | 26 Adapterschijf              |
| 13 Aansluiting voor microfoon (rechter kanaal)             | 27 Toerentalkiezer            |
| 14 Aansluiting voor microfoon (linker kanaal)              | 28 Naaldbeschermer            |
|  | 29 Platenspelerarm            |

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**SPECIFICATIE**

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**Typische waarde**

**Algemeen**

Netspanning	: 220 V~ Service oplossing voor 110 V-240 V	: 220 V~ Service oplossing voor 110 V-240 V
Netfrequentie	: 50 Hz	: 50 Hz
Opgenomen vermogen	: 20 W max	: 20 W max
Afmetingen (BxHxD)	: 381x121x365 mm	: 381x121x365 mm
Gewicht	: 5 kg	: 5 kg

**Tuner: FM gedeelte**

Afstembereik	: 87,5 Mhz tot 108 MHz	: 87,5 MHz tot 108 MHz
Antenne ingang	: 75	: 75
Gevoeligheid	: 10 V 30 dB S/N	: 20 V 30 dB S/N
Onderdrukking MF-AM	: 32 dB	: 26 dB
T.H.D. stereo	: 2%	: 3%
Kanaalscheiding	: 30 dB	: 24 dB

**Tuner: AM gedeelte**

Golfbereiken MW	: 520 kHz-1650 kHz	: 530 kHz-1610 kHz
LW	: 145 kHz- 265 kHz	: 150 kHz- 275 kHz
Gevoeligheid	: 400 µV	: 700 µV

**Versterker**

Uitgangsvermogen	: 1,5 W (10% T.H.D.)	: 1,2 W (10% T.H.D.)
T.H.D.	: 2%	: 3%
Frequentiearakteristiek	: 80 Hz-12 kHz	: 100 Hz-10 kHz
Toonregeling	: -14 dB	: -12 dB

**Cassette recorder**

Bandsnelheid	: 4,76 cm/sec	: 4,76 cm/sec
Frequentiebereik	: 125 Hz-8 kHz (± 30 dB)	: 125 Hz-8 kHz (± 6 dB)
Wow en flutter	: 0,25 WRMS	: 0,35 WRMS

**Platenspeler**

Frequentiearakteristiek	: 80 Hz-12 kHz	: 100 Hz-10 kHz
Toerental	: 33 1/3, 45 TPM	: 33 1/3, 45 TPM

**ELEKTRISCHE METINGEN EN INSTELLINGEN**

**Benodigde meetinstrumenten**

- RF generator
- Oscilloscoop
- AC milivoltmeter
- DC milivoltmeter
- Frequentieteller

**Algemene voorwaarden**

Tijdens het afregelen moeten de toegevoerde signalen zo klein mogelijk zijn. De MF-afregelingen gebeuren met een gewobbeld signaal. Voor FM is dit 10,7 MHz (zwaai van 75 kHz met een frequentie van 50 Hz). Voor AM is dit 450 kHz (zwaai van 10 kHz met een frequentie van 50 Hz). De top van de doorlaatcurve door verschuiven van de wobbelfrequentie in het midden van het scoopbeeld plaatsen.

**RADIO ALIGNMENT**

SK..... A	Signal	to	Tune in	Adjust	
MW	455 kHz	A		T102 T104	MAX 1
MW	525 kHz 1650 kHz 550 kHz 1500 kHz	B	MAX CAP MIN CAP 550 kHz 1500 kHz	S107 TC104 L105 TC105	MAX 1
LW	145 kHz 265 kHz 160 kHz 250 kHz	B	MAX CAP MIN CAP 160 kHz 250 kHz	TC106 L105 TC103	MAX 1
FM	10.7 MHz	D E		T101 T103	MAX 1
FM	86.5 MHz 109 MHz 90 MHz 106 MHz	F	MAX CAP MIN CAP 90 MHz 106 MHz	L104 TC102 L102,103 TC101	MAX 1

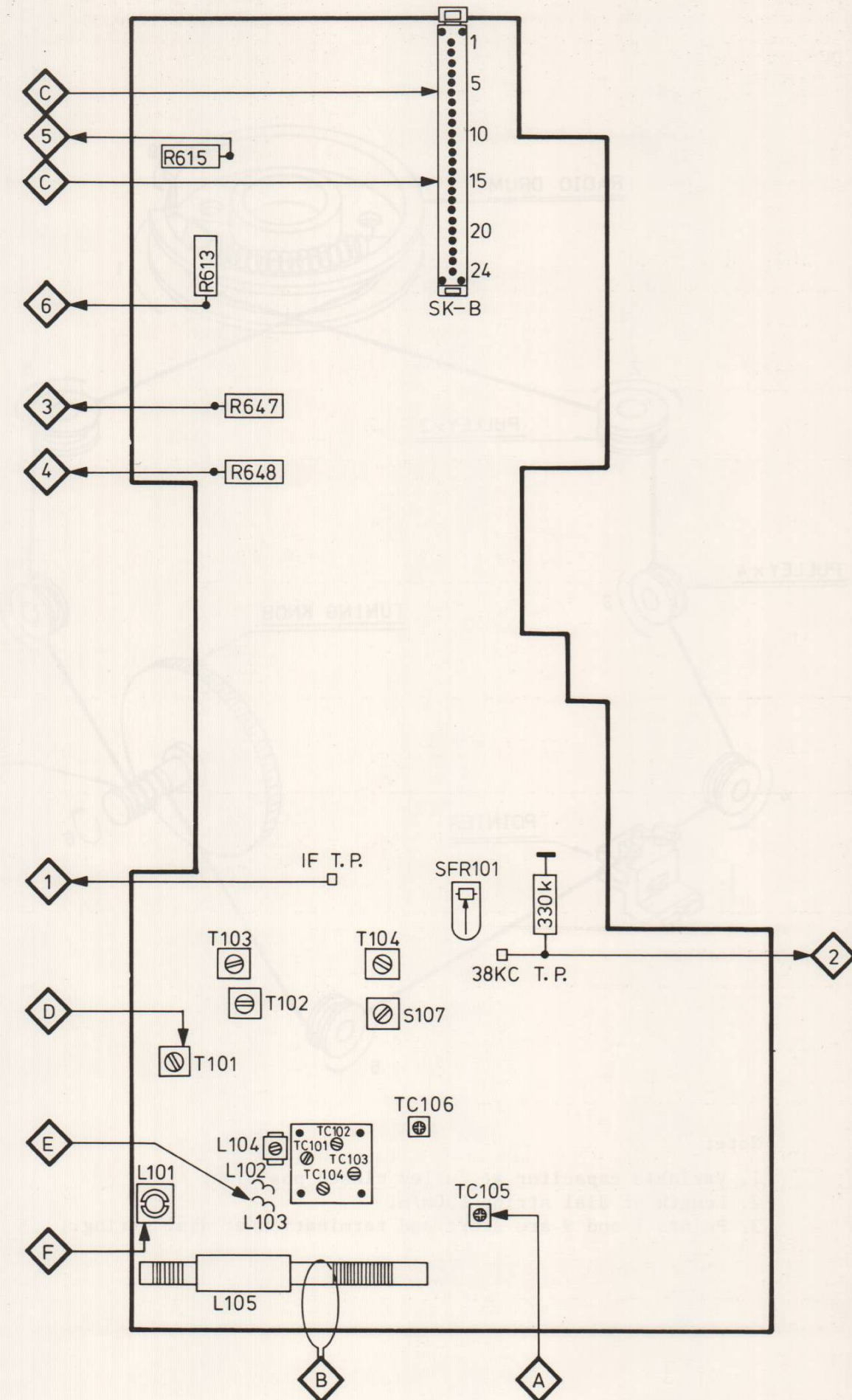
**STEREO DECODER**

FM	NO SIGNAL	F	SFR101	COUNTER 38 kHz	2
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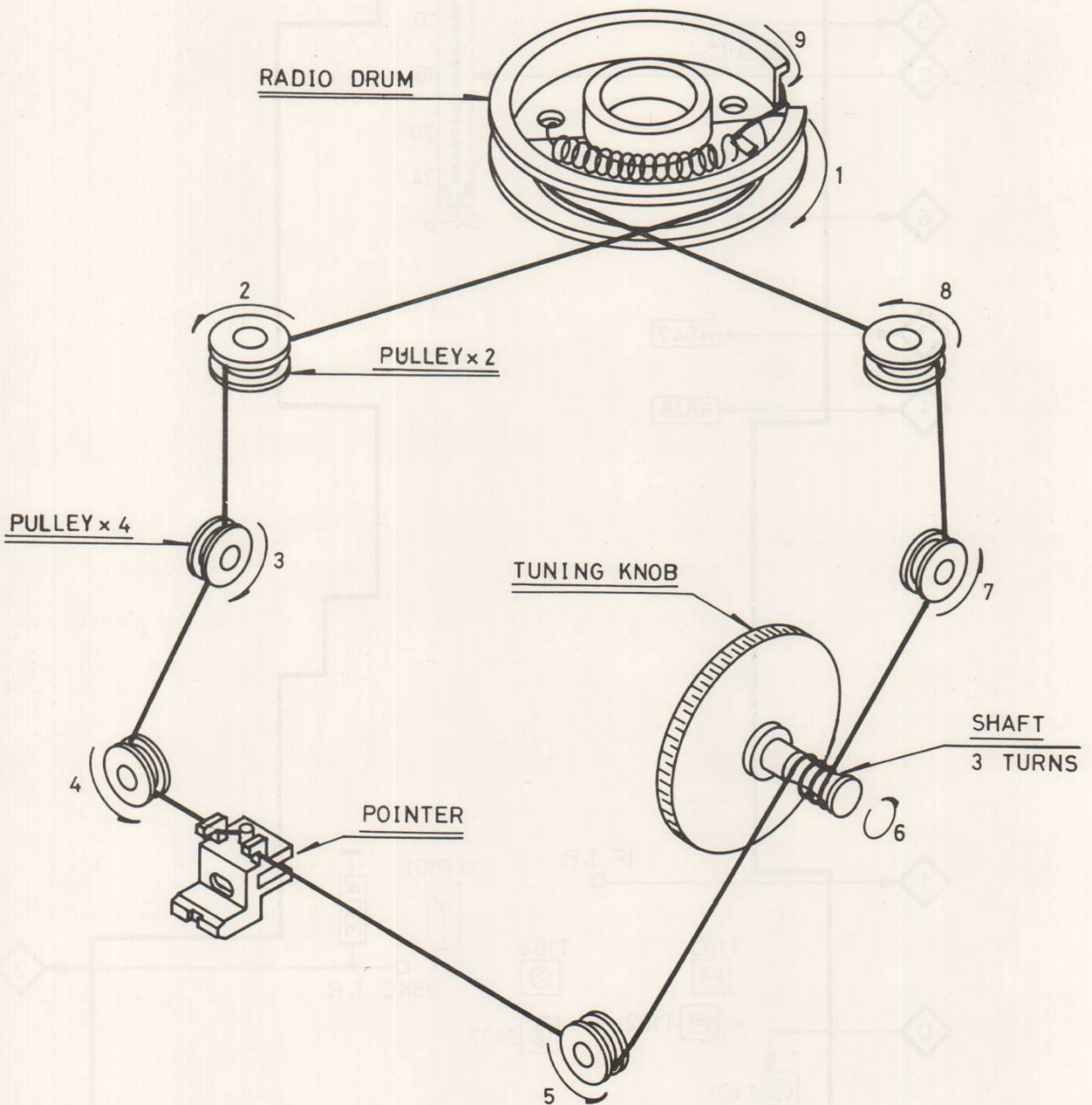
**CASSETTE ALIGNMENT & SPEC**

HEAD ANGLE	TEST TAPE 6.3 kHz		PLAYBACK	HEAD ADJUST SCREW	MAX 4 5 3 6
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**Adjustment Location Diagram**



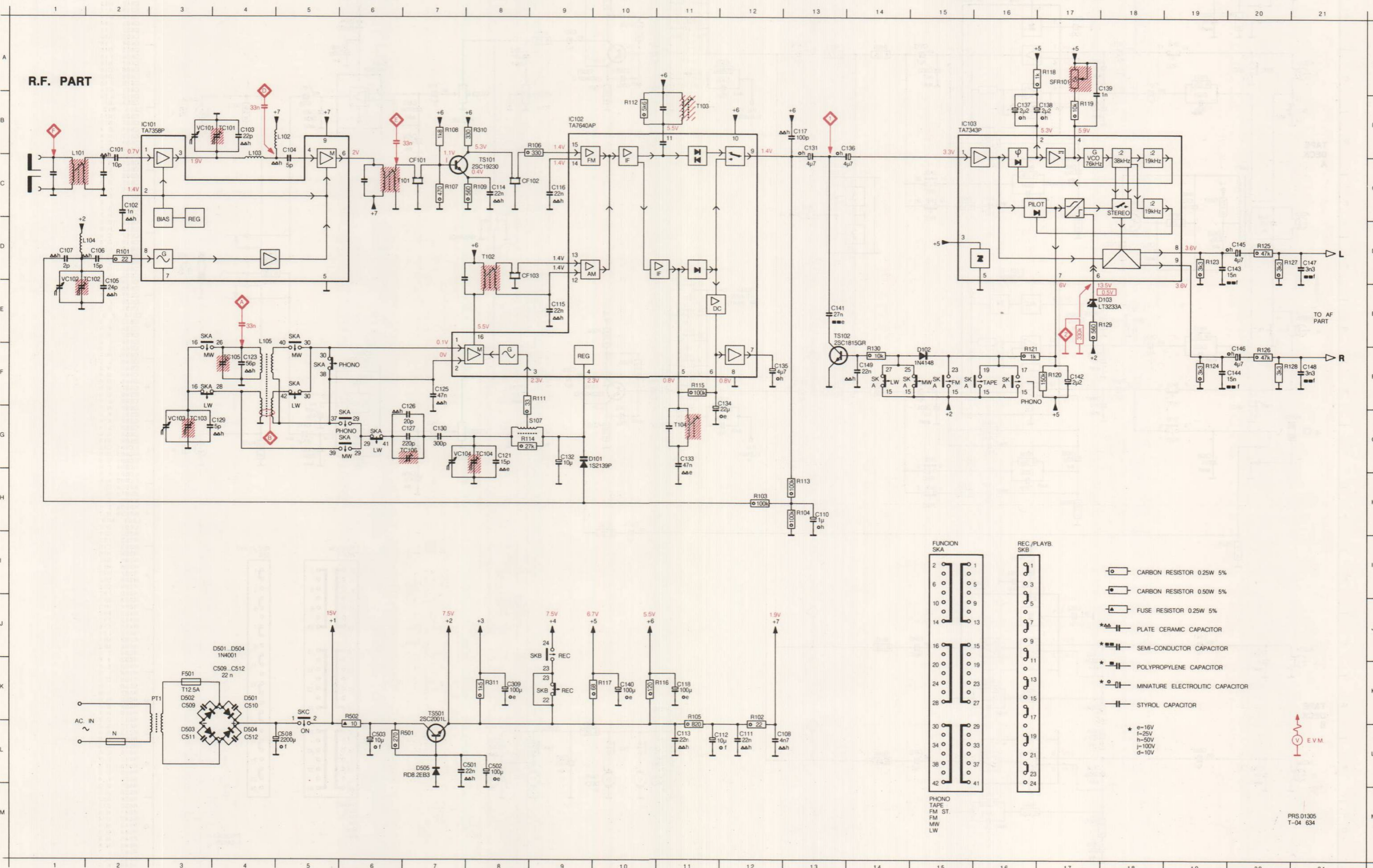
## Dial Stringing



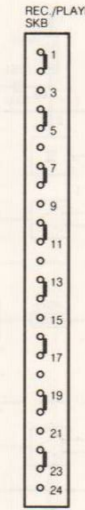
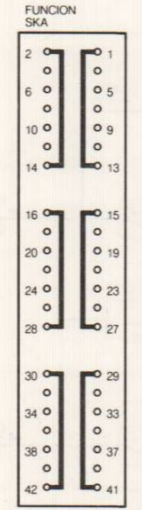
## Note:

1. Variable capacitor at fully closed position.
2. Length of dial string 850m/m.
3. Points 1 and 9 are start and termination of dial string.

C101	B 2	C106	D 2	C112	L12	C117	B13	C126	F 7	C132	G 9	C137	B16	C142	F17	C147	D21	C502	L 8	C511	L 3	D101	G10	D503	L 3	I C102	B 9	L104	D 2	R103	H12	R108	B 7	R114	G 8	R119	B17	R125	D20	R130	F14	S107	G 9	T104	G11	TC105	F 4	VC101	B 3
C102	C 2	C107	D 1	C113	L11	C118	K11	C127	G 7	C133	G11	C138	B17	C143	D20	C148	F21	C503	L 6	C512	L 4	D102	F15	D504	L 7	I C103	B15	L105	E 4	R104	H13	R109	C 8	R115	F11	R120	F17	R126	F20	R310	B 8	SFR10	A17	TC101	B 4	TC106	G 7	VC102	D 1
C103	B 4	C108	L13	C114	C 8	C121	G 8	C129	G 4	C134	F12	C139	A18	C144	F20	C149	F14	C508	L 5	CF101	C 7	D103	E18	D505	L 4	L101	B 1	PT1	K 3	R105	K11	R111	F 9	R116	K11	R121	F16	R127	D21	R311	K 8	T101	C 7	TC102	D 2	TS101	C 8	VC103	G 3
C104	B 5	C110	H13	C115	E 9	C123	F 4	C130	G 7	C135	F13	C140	K10	C145	D20	C309	K 8	C509	K 3	CF102	C 9	D501	K 4	F501	K 3	L102	B 5	R101	D 2	R106	B 9	R112	B10	R117	K10	R123	D19	R128	F21	R501	L 7	T102	D 8	TC103	G 3	TS102	E13	VC104	G 7
C105	E 2	C111	L12	C116	C 9	C125	F 7	C131	B13	C136	B14	C141	E13	C146	F20	C501	L 8	CF103	D 9	D502	K 3	I C101	B 3	L103	B 4	R102	K12	R107	C 7	R113	H13	R118	A17	R124	F19	R129	E18	R502	K 6	T103	B11	TC104	G 8	TS501	K 7				



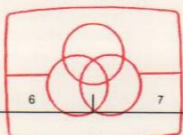
R.F. PART



- CARBON RESISTOR 0.25W 5%
  - CARBON RESISTOR 0.50W 5%
  - FUSE RESISTOR 0.25W 5%
  - PLATE CERAMIC CAPACITOR
  - SEMI-CONDUCTOR CAPACITOR
  - POLYPROPYLENE CAPACITOR
  - MINIATURE ELECTROLYTIC CAPACITOR
  - STYROL CAPACITOR
- \* e=16V  
f=25V  
h=50V  
j=100V  
d=10V



PRS.01305  
T-04 634



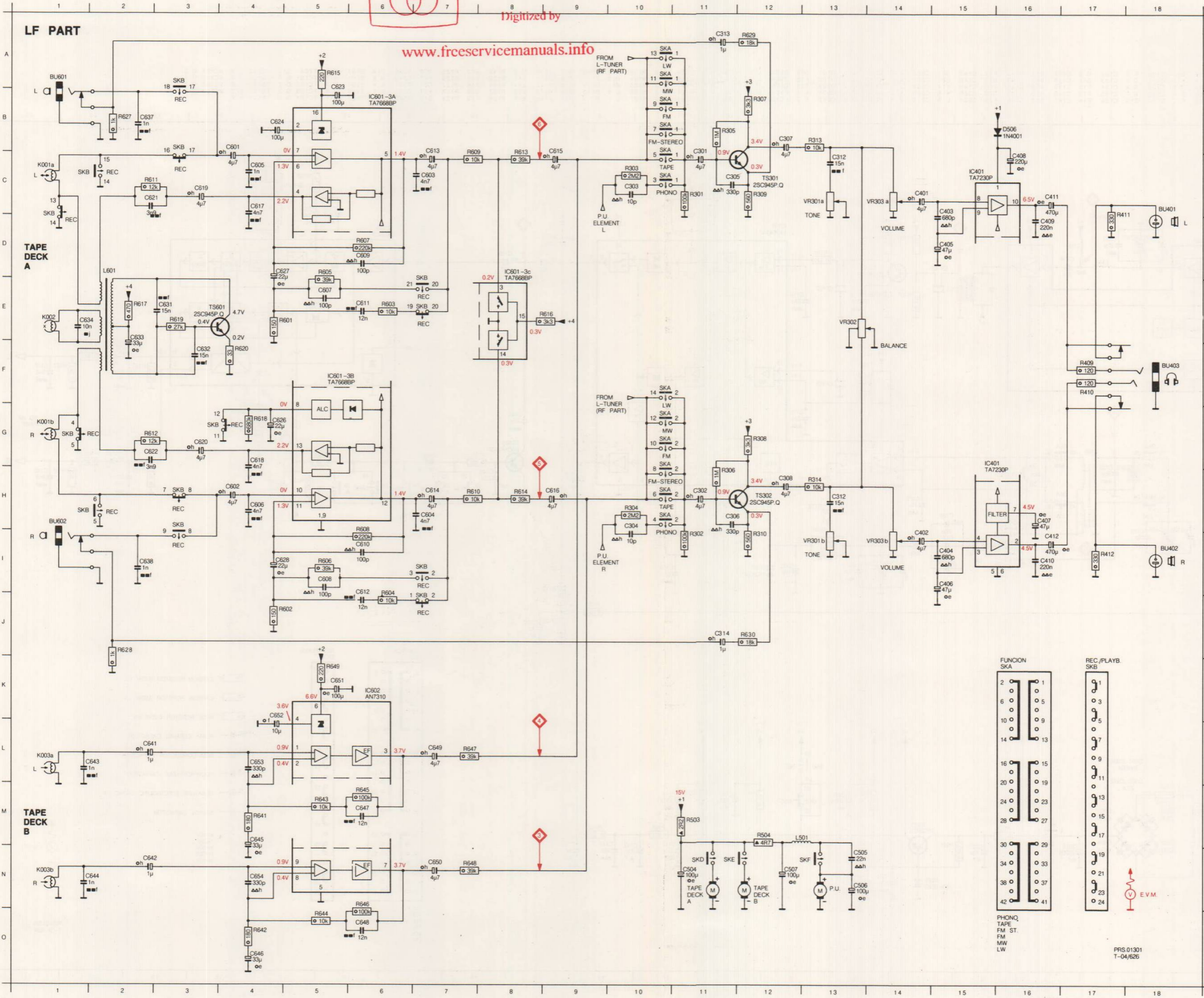
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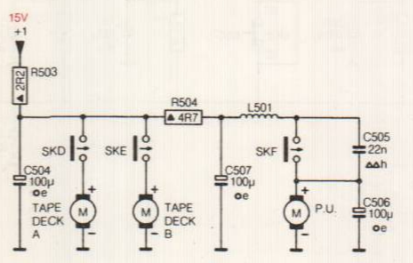
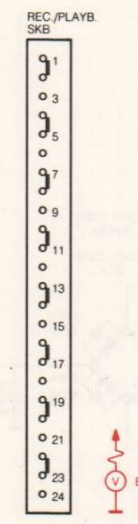
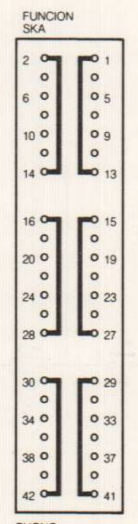
LF PART

TAPE DECK A

TAPE DECK B

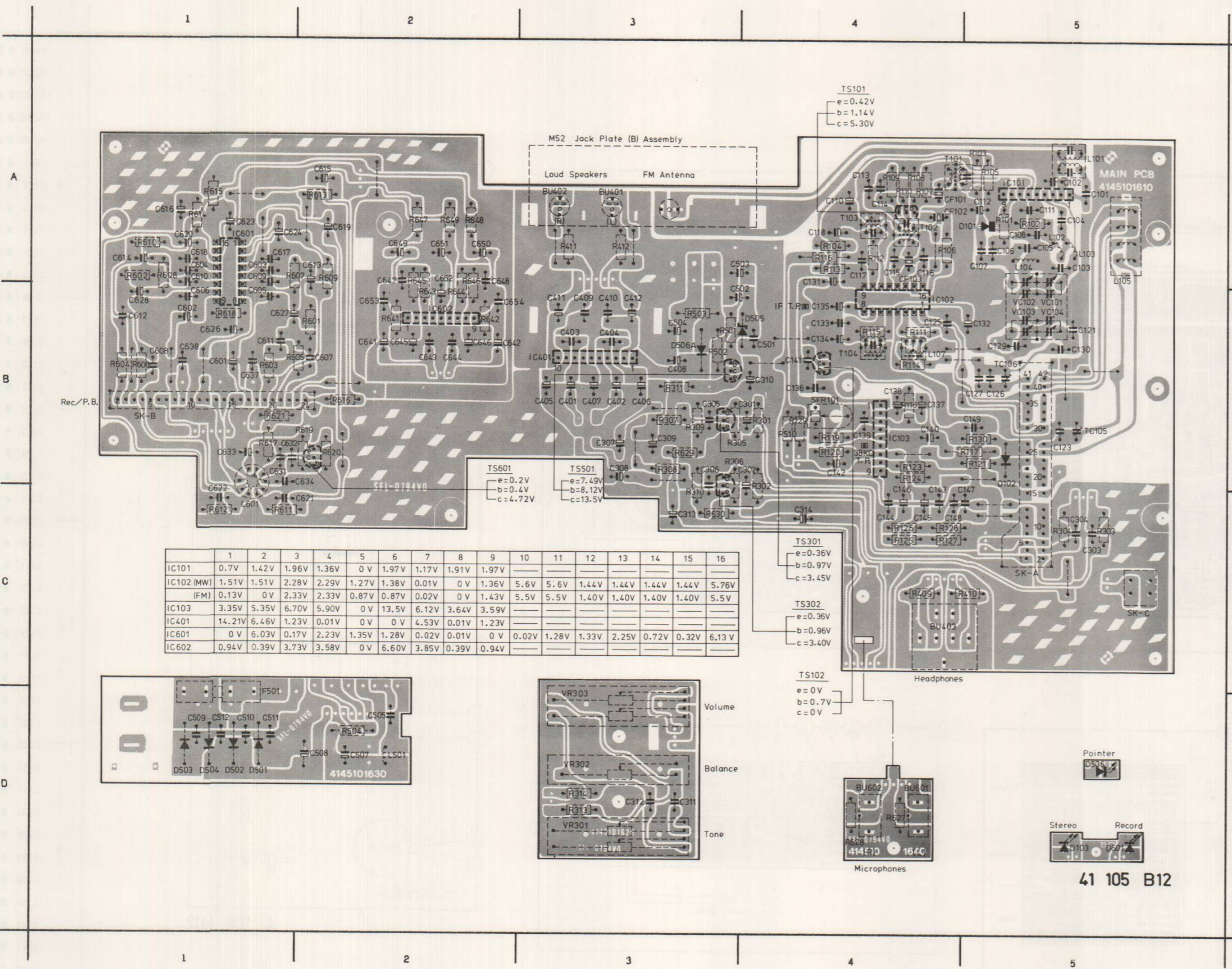


Component list table with columns for component type and value. Includes items like BU401, BU402, BU403, C18, C19, C20, etc.



PRS 01301  
T-04/626

### P C Board-Solder Side



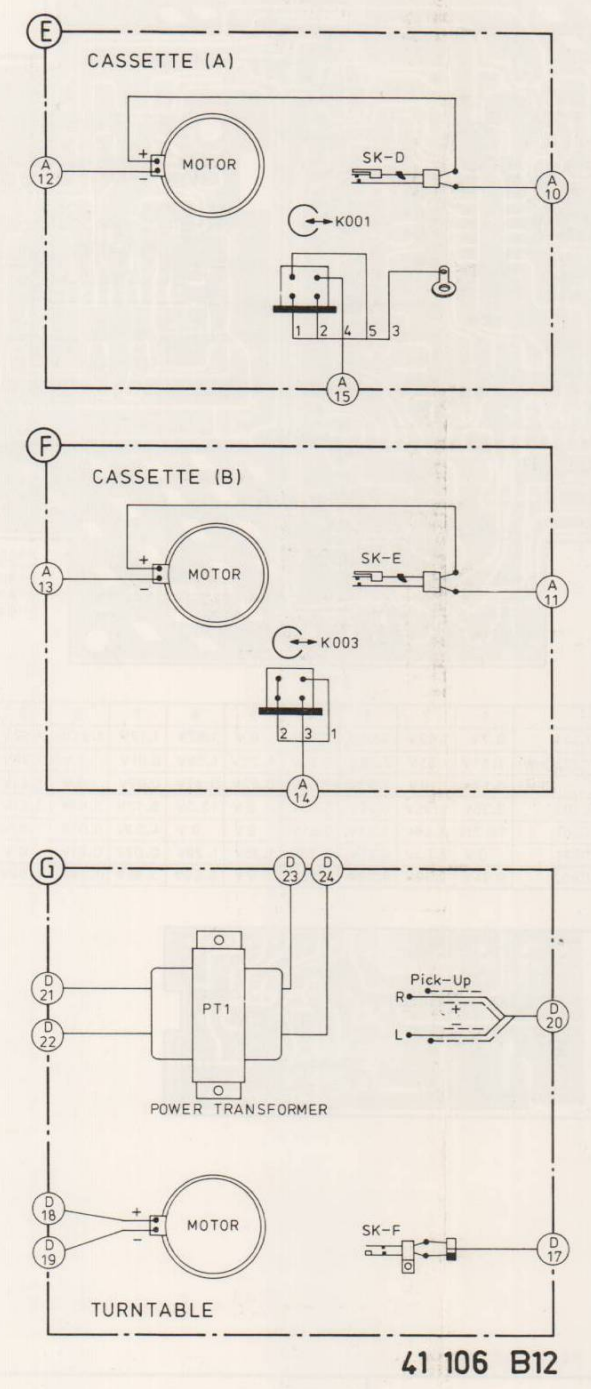
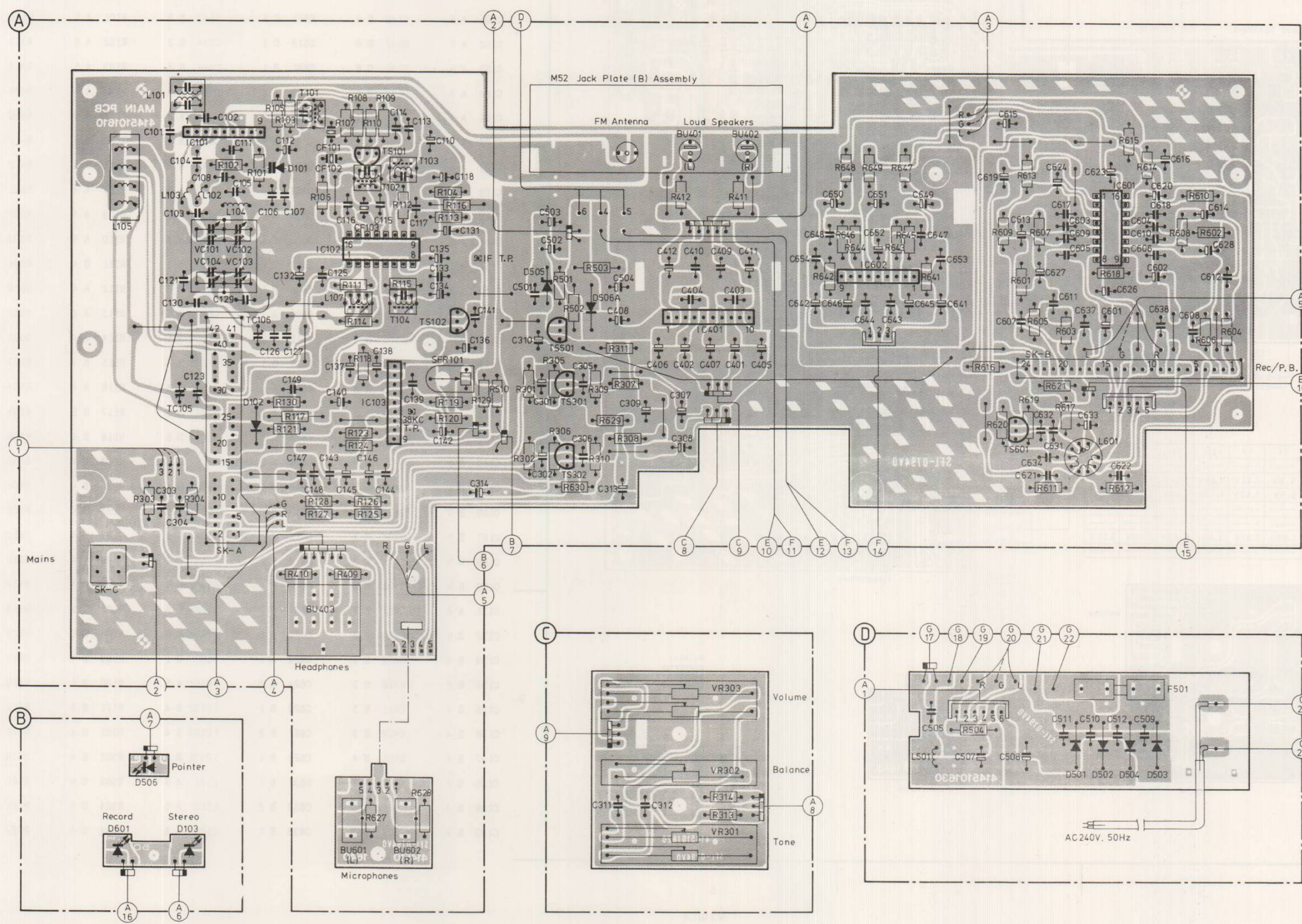
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC101	0.7V	1.42V	1.96V	1.36V	0V	1.97V	1.17V	1.91V	1.97V							
IC102 (MW)	1.51V	1.51V	2.28V	2.29V	1.27V	1.38V	0.01V	0V	1.36V	5.6V	5.6V	1.44V	1.44V	1.44V	1.44V	5.76V
(FM)	0.13V	0V	2.33V	2.33V	0.87V	0.87V	0.02V	0V	1.43V	5.5V	5.5V	1.40V	1.40V	1.40V	1.40V	5.5V
IC103	3.35V	5.35V	6.70V	5.90V	0V	13.5V	6.12V	3.64V	3.59V							
IC401	14.21V	6.46V	1.23V	0.01V	0V	4.53V	0.01V	1.23V								
IC601	0V	6.03V	0.17V	2.23V	1.35V	1.28V	0.02V	0.01V	0V	0.02V	1.28V	1.33V	2.25V	0.72V	0.32V	6.13V
IC602	0.94V	0.39V	3.73V	3.58V	0V	6.60V	3.85V	0.39V	0.94V							

BU401 A 3	C141 B 4	C505 D 2	C634 B 2	L104 A 5	R306 B 4	R626 D 4
BU402 A 3	C142 B 4	C507 D 2	C637 B 1	L105 A 5	R307 B 3	R629 B 3
BU403 C 4	C143 B 4	C508 D 2	C638 B 1	L107 B 4	R308 B 3	R630 C 3
BU601 D 4	C144 C 4	C509 D 1	C641 B 2	L501 D 2	R309 B 3	R641 B 2
BU602 D 4	C145 C 4	C510 D 1	C642 B 3	L601 C 1	R310 C 3	R642 B 2
C101 A 5	C146 B 4	C511 D 1	C643 B 2	R101 A 5	R311 B 3	R643 B 2
C102 A 5	C147 B 5	C512 D 1	C644 B 2	R102 A 5	R313 D 3	R644 B 2
C103 A 5	C148 C 5	C601 B 1	C645 B 2	R103 A 5	R314 D 3	R645 A 2
C104 A 5	C149 B 5	C601 A 1	C646 B 2	R104 A 4	R409 C 4	R646 A 2
C105 A 5	C301 B 4	C602 B 1	C647 A 2	R105 A 4	R410 C 5	R647 A 2
C106 A 5	C301 B 4	C602 B 2	C648 A 2	R105 A 5	R411 A 3	R648 A 2
C107 A 5	C302 B 3	C603 A 1	C649 A 2	R106 A 5	R412 A 3	R649 A 2
C108 A 5	C303 C 5	C604 A 1	C650 A 2	R107 A 4	R501 B 4	SK A C 5
C110 A 4	C304 C 5	C605 B 1	C651 A 2	R108 A 4	R502 B 3	SK B B 1
C111 A 5	C305 B 3	C606 B 1	C652 A 2	R110 A 4	R503 B 3	SK C C 5
C112 A 5	C307 B 3	C607 B 2	C653 B 2	R111 B 4	R504 D 2	T101 A 5
C113 A 4	C308 B 3	C608 B 1	C654 B 3	R112 A 4	R510 B 4	T102 A 4
C114 A 4	C309 B 3	C609 A 1	CF101 A 5	R113 A 4	R601 B 2	T103 A 4
C115 A 4	C310 B 4	C610 A 1	CF102 A 5	R114 B 4	R602 A 1	T103 A 4
C116 A 4	C311 D 3	C611 B 1	CF103 A 4	R115 B 4	R603 B 1	T104 B 4
C117 A 4	C312 D 3	C612 B 1	D101 A 5	R116 A 4	R604 B 1	TC105 B 5
C118 A 4	C313 C 3	C613 A 2	D102 B 5	R117 B 5	R605 B 2	TC106 B 5
C121 B 5	C314 C 4	C614 A 1	D103 D 5	R118 B 4	R606 B 1	VC101 B 5
C123 B 5	C401 B 3	C615 A 2	D501 D 1	R119 B 4	R607 A 2	VC102 B 5
C125 B 4	C402 B 3	C616 A 1	D502 D 1	R120 B 4	R608 A 1	VC103 B 5
C126 B 5	C403 B 3	C617 A 2	D503 D 1	R123 B 4	R609 A 2	VC104 B 5
C127 B 5	C404 B 3	C618 A 1	D504 D 1	R124 B 4	R610 A 1	VR301 D 3
C129 B 5	C405 B 3	C619 A 2	D505 B 4	R125 C 4	R611 C 2	VR302 D 3
C130 B 5	C406 B 3	C620 A 1	D506 D 5	R126 C 4	R612 C 1	VR303 C 3
C131 A 4	C407 B 3	C621 C 2	D506A B 3	R127 C 5	R613 A 2	
C132 B 5	C408 B 3	C622 C 1	D601 D 5	R128 C 5	R614 A 1	
C133 B 4	C409 B 3	C623 A 1	F501 D 1	R129 B 4	R615 A 1	
C134 B 4	C410 B 3	C624 A 2	IC101 A 5	R130 B 5	R616 B 2	
C135 B 4	C411 B 3	C626 B 1	IC102 B 4	R171 B 5	R617 B 1	
C136 B 4	C412 B 3	C627 B 2	IC103 B 4	R301 B 4	R618 B 1	
C137 B 4	C501 B 4	C628 B 1	IC401 B 3	R302 B 4	R619 B 2	
C138 S 4	C502 A 4	C631 B 1	L101 A 5	R303 C 5	R620 B 2	
C139 B 4	C503 A 4	C632 B 2	L102 A 5	R304 C 5	R621 B 1	
C140 B 4	C504 B 3	C633 B 1	L103 A 5	R305 B 4	R627 D 4	

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PRS 017'6

# Wiring Diagram



BU401 A 3	C144 C 2	C602 B 5	C652 B 4	R112 B 2	R604 B 5	TS101 A 2
BU402 A 4	C145 C 2	C603 B 5	C653 B 4	R113 B 2	R605 B 5	TS102 B 2
BU403 C 2	C146 C 2	C604 B 5	C654 B 4	R114 B 2	R606 B 5	TS301 B 3
BU601 D 2	C147 C 2	C605 B 5	CF101 A 2	R115 B 2	R607 B 5	TS302 C 3
BU602 D 2	C148 C 2	C606 B 5	CF102 A 2	R115 B 2	R608 B 5	TS501 B 3
C101 A 1	C149 B 2	C607 B 5	CF103 B 2	R117 C 2	R609 B 5	TS501 C 5
A C102 A 1	C301 B 3	C608 B 5	D101 A 2	R118 B 2	R610 B 5	VC101 B 1
C103 B 1	C302 C 3	C609 B 5	D102 B 2	R119 B 2	R611 C 5	VC102 B 2
C104 A 1	C303 C 1	C610 B 5	D103 D 1	R120 C 2	R612 C 5	VC103 B 2
C104 B 3	C304 C 1	C611 B 5	D501 D 5	R121 C 2	R613 B 5	VC104 B 1
C105 B 2	C305 B 3	C612 B 5	D502 D 5	R123 C 2	R614 A 5	VR301 D 3
C106 B 2	C306 C 3	C613 B 5	D503 D 5	R124 C 2	R615 A 5	VR302 D 3
C107 B 2	C307 B 3	C614 B 5	D504 D 5	R125 C 2	R616 B 4	VR303 D 3
C108 B 1	C308 C 3	C615 A 5	D505 B 3	R126 C 2	R617 B 5	
C110 A 2	C309 B 3	C615 A 5	D506 D 1	R127 C 2	R618 B 5	
C111 A 2	C310 B 3	C617 B 5	D506A B 3	R128 C 2	R619 B 5	
B C112 A 2	C311 D 3	C618 B 5	D601 D 1	R129 B 3	R620 C 5	
C113 A 2	C312 D 3	C619 B 5	F501 D 5	R130 B 2	R621 B 5	
C114 A 2	C313 C 3	C620 B 5	IC101 A 1	R301 B 3	R622 D 2	
C115 B 2	C314 C 2	C621 C 5	IC102 B 2	R302 C 3	R623 D 2	
C116 B 2	C401 B 4	C622 C 5	IC103 B 2	R303 C 1	R629 C 3	
C117 B 2	C402 B 3	C623 A 5	IC401 B 3	R304 C 1	R630 C 3	
C118 B 2	C403 B 3	C624 A 5	IC501 B 5	R305 B 3	R641 B 4	
C121 B 1	C405 B 4	C626 B 5	IC602 B 4	R306 C 3	R642 B 4	
C123 B 1	C406 B 3	C627 B 5	L101 A 1	R307 B 3	R643 B 4	
C125 B 2	C407 B 3	C628 B 5	L102 B 1	R308 C 3	R644 B 4	
C126 B 2	C408 B 3	C631 C 5	L103 D 1	R309 B 3	R645 B 4	
C127 B 2	C409 B 3	C632 B 5	L104 B 2	R310 C 3	R646 B 4	
C129 B 1	C410 B 3	C633 B 5	L105 B 1	R311 B 3	R647 A 4	
C130 B 1	C411 B 4	C634 C 5	L107 B 2	R313 D 3	R648 A 4	
C131 B 2	C412 B 3	C637 B 5	L501 D 4	R314 D 3	R649 A 4	
C132 B 2	C501 B 3	C638 B 5	L601 C 5	R409 C 2	SK A C 1	
C134 B 2	C502 B 3	C641 B 4	R101 B 2	R410 C 2	SK B B 5	
C135 B 2	C503 B 3	C642 B 4	R102 A 1	R411 B 4	SK C C 1	
C136 B 3	C504 B 3	C643 B 4	R103 A 2	R412 B 3	SK D A 7	
C137 B 2	C505 D 4	C644 B 4	R104 B 2	R501 B 3	SK E B 7	
C138 B 2	C507 D 4	C645 B 4	R105 A 2	R502 B 3	SK F D 7	
C139 B 2	C509 D 5	C647 B 4	R106 B 2	R503 B 3	T10 A 2	
C140 B 2	C510 D 5	C648 B 4	R108 A 2	R510 B 3	T103 A 2	
C141 B 3	C511 D 5	C649 B 4	R109 A 2	R601 B 5	T104 B 2	
C142 C 2	C512 D 5	C650 B 4	R110 A 2	R602 B 5	TC105 B 1	
C143 C 2	C601 B 5	C651 B 4	R111 B 2	R603 B 5	TC106 B 2	

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## REPLACEMENT PARTS

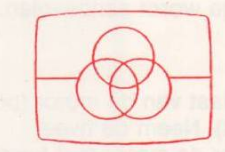
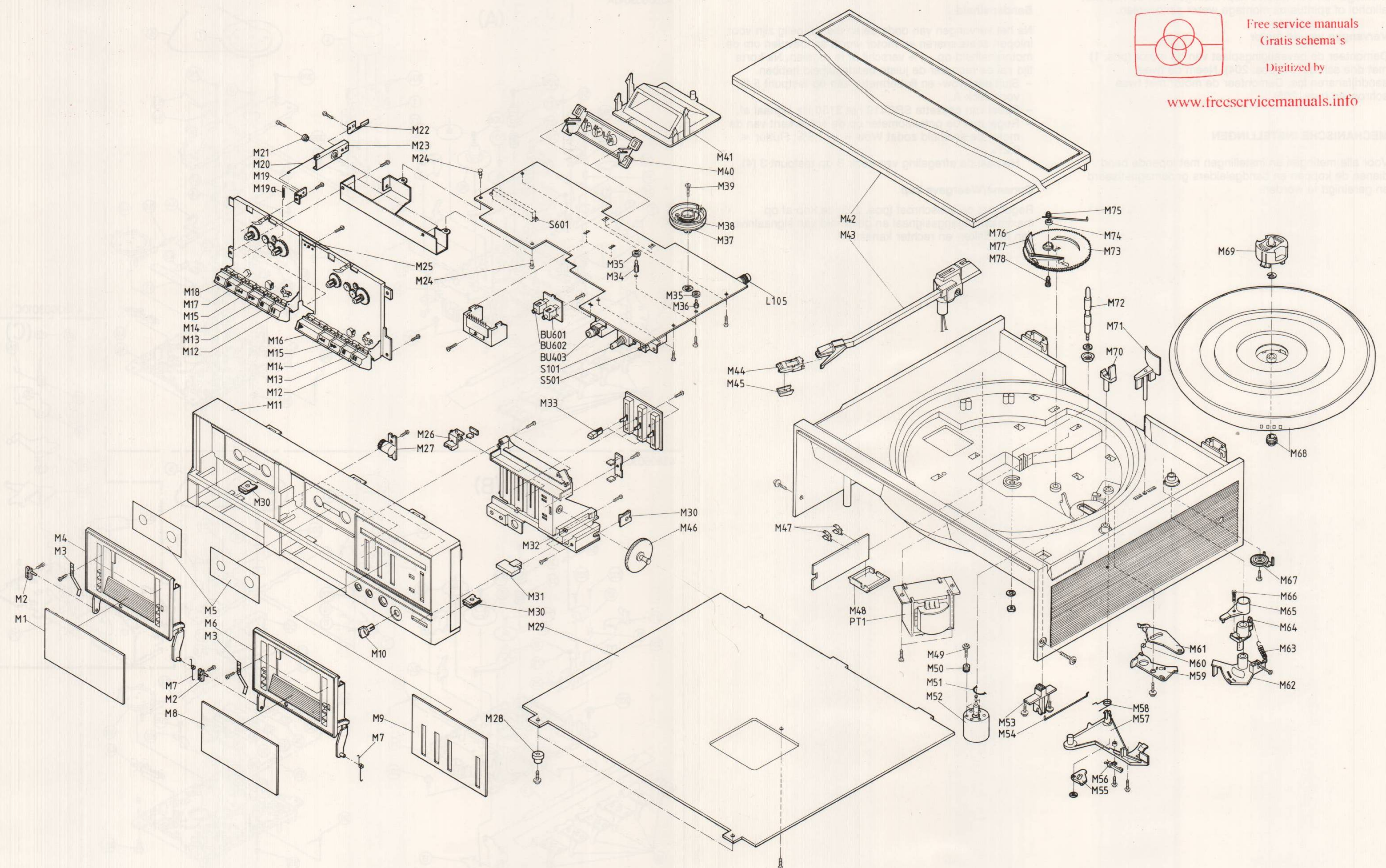
Ref. no.	Parts no.	Description	Ref. no.	Parts no.	Description
<b>RESISTORS</b>			<b>TRANSFORMERS &amp; COILS</b>		
Note: all resistors are carbon type, $\pm 5\%$ and $\frac{1}{4}$ watt, unless otherwise noted.			L101	4822 157 52747	FM antenna coil TWS-358-472
R502	4822 111 91165	10 $\Omega$ , Fuse	L102,103	4822 156 10924	FM RF coil 0.55x4 $\phi$ x1.5T
R503	4822 111 91166	2.2 $\Omega$ , Fuse	L104	4822 156 10928	FM osc. coil R12-6128C
R504	4822 111 91167	4.7 $\Omega$ , Fuse	L105	4822 158 60552	LW/MW bar antenna 100m/m
<b>CAPACITORS</b>			S107	4822 156 10927	AM osc. coil TWS-358-508
Note: All capacitors are ceramic type, unless otherwise noted.			L501	4822 152 20617	Motor choke 1 mH "K"
Limit: J = $\pm 5\%$ M = $\pm 20\%$			L601	4822 156 10929	Bias osc. coil TWS-358-495
C105	4822 122 32947	24 pF (J) CH	T101	4822 156 10938	FM IFT TWS-358-425
C106	4822 122 32946	15 pF (J) CH	T102	4822 156 10935	AM IFT TWS-358-423
C508	4822 124 22021	2200 $\mu$ F/25 V (M) Electrolytic	T103	4822 156 10937	FM IFT TWS-358-426
C141	4822 122 32911	DD5R 273 K165	T104	4822 156 10932	AM IFT TWS-358-424
<b>TRANSISTORS &amp; INTEGRATED CIRCUITS</b>			PT1	4822 146 21217	Power transformer E1-48
TS101	4822 130 60166	2SC19230	<b>FILTERS &amp; SWITCHES</b>		
TS102	4822 130 41306	2SC1815GR	CF101,102	4822 242 70299	Ceramic F. SFE10.7MA5M
TS301,302	4822 130 41198	2SC945P,Q	CF103	4822 242 71525	Ceramic F. SFU460B
TS501	4822 130 41651	2SC2001L	VC101-104	4822 125 11018	P.V.C. R-6178
TS601	4822 130 41198	2SC945P,Q	SK-A	4822 276 11919	Function switch SRRZV66S60-CP
IC101	4822 209 82489	TA7358P	SK-B	4822 276 11918	R/P switch FS-25-182
IC102	4822 209 81818	TA7640AP	SK-C	4822 276 11921	Power switch SDDWA1AS10-CP
IC103	4822 209 81245	TA7343P	<b>VARIABLE RESISTORS &amp; CERAMIC TRIMMERS</b>		
IC401	4822 209 70307	TA7230P	SFR101	4822 100 11056	Semi-fixed resistor 5KX
IC601	4822 209 83297	TA7668BP	VR301,303	4822 102 30444	VR RSEA2P9005-CP 50KAx2
IC602	4822 209 81549	AN7310	VR302	4822 101 20925	VR RSEA1P9009-CP 100KW
See special handling techniques for electrostatically sensitive devices as described in section of this service manual.			TC105,106	4822 125 60135	Trimmer C. CTC-30 pF
<b>DIODES</b>			<b>JACKS &amp; FUSE</b>		
D101	4822 130 31228	1S2139B	BU403	4822 264 30198	Headphone jack HTJ-064-03A2
D102	4822 103 33743	1N4148T	BU601,602	4822 264 30195	Mic. jack HTJ-035-03B
D103	4822 130 33739	LT-3233A LED (GREEN)	F501	4822 253 10089	Fuse beab 1.25T
D501-504	4822 130 33744	1N4001			
D505	4822 130 33734	RD8.2EB3 ZENER			
D506	4822 130 33735	SR538D LED (RED)			
D506A	4822 130 33744	1N4001			
D601	4822 130 33738	LT-3213A LED (RED)			

MECHANICAL PARTS LIST

Ref. no.	Parts no.	Description	Ref. no.	Parts no.	Description
M1	4822 450 60917	Door window (A) assembly	M44	4822 251 30119	Cartridge
M2	4822 256 90996	Cassette case holder	M45	4822 251 30118	Stylus
M3	4822 492 63394	Tape spring	M46	4822 413 41323	Tuning knob assembly
M4	4822 426 60446	Cassette door (A)	M47	4822 256 30288	Fuse holder Z-N1152-02
M5	4822 380 30112	Mirror	M48	4822 426 60479	Power PCB cover
M6	4822 426 60447	Cassette door (B)	M50	4822 325 60294	Grommet
M7	4822 492 63395	Cassette up spring	M51	4822 358 30694	Belt
M8	4822 450 60918	Door window (B) assembly	M52	4822 361 20694	Turntable motor
M9	4822 450 60763	Control overlay assembly	M53	4822 411 50562	Speed knob
M10	4822 413 10268	Function knob	M54	4822 321 30315	Speed control wire
M11	4822 426 51084	Front escutcheon assembly	M55	4822 402 52231	Cam
M12	4822 410 25179	Cassette button-pause	M56	4822 277 30873	Leaf switch (LSB-1123-38)
M13	4822 410 25178	Cassette button-eject	M57	4822 402 61028	Control arm
M14	4822 410 25177	Cassette button-F.F.	M58	4822 492 63398	Control arm spring
M15	4822 410 25176	Cassette button-rew	M59	4822 402 50228	Speed shift cam 33
M16	4822 410 25175	Cassette button-play (A)	M60	4822 492 41967	Spring-speed shaft cam
M17	4822 410 25181	Cassette button-play (B)	M61	4822 402 50222	Speed shift cam 45
M18	4822 410 25174	Cassette button-rec	M62	4822 402 61032	Quadrant
M19	4822 402 61036	Bracket (L)	M63	4822 492 63393	Adjusting spring
M19a	4822 492 32675	Record spring	M64	4822 528 20474	Trip clutch (B)
M20	4822 321 30316	Record wire	M65	4822 528 20473	Trip clutch (A)
M21	4822 532 51727	Record collar	M66	4822 492 63392	Trip clutch spring
M22	4822 492 90097	Record spring plate	M67	4822 426 60478	AC cord cover
M23	4822 402 61035	Record lever	M68	4822 528 10646	Turntable assembly
M24	4822 532 51847	P-rievet 3x4.5	M69	4822 535 60088	Adaptor (B)
M26	4822 450 81021	Pointer	M70	4822 402 61026	Arm stand
M27	4822 528 20472	Gear damper	M71	4822 402 61027	Lift platform
M28	4822 462 10268	Leg	M72	4822 535 60087	Spindle
M30	4822 505 10807	Escutcheon nut	M73	4822 522 32256	Cam gear
M31	4822 413 41327	Power knob	M75	4822 492 42113	Driver spring
M33	4822 411 61235	Slide knob (A)	M76	4822 535 92004	Trip rod
M34	4822 535 92006	Stud (B)	M77	4822 535 92003	Trip paw1
M35	4822 528 50285	Pulley	M78	4822 535 92291	Driver pivot
M36	4822 535 92005	Stud (A)	Other	4822 445 10099	Speaker box assembly
M37	4822 528 40267	Radio drum			
M38	4822 492 32612	Drum spring			
M40	4822 267 30807	Jack plate (B) assembly			
M41	4822 459 40579	Jack case			
M42	4822 444 60469	Dust cover			
M43	4822 251 70294	Pick up assembly (PA-284S-11)			

Note: Only the parts mentioned in this parts list are service parts

Mechanical Exploded View



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SERVICEWENKEN CASSETTE DECKS

Vervangen van de opname/weergave kop

De kop is met twee schroeven (pos. 202 en pos. 203) op de kopschuif (pos. 25) bevestigd. Voorkom vingercontact met de kopspiegel (de voorkant van de kop) tijdens montage van een nieuwe kop. Reinigen van de kop met alcohol of spiritus na montage wordt aanbevolen.

Vervangen van de motor

Demonteer de bevestigingsplaat van de motor (pos. 1) met drie schroeven (pos. 204). Neem de twee aandrijfsnaren los. Demonteer de motor met twee schroeven (pos. 205).

MECHANISCHE INSTELLINGEN

Voor alle metingen en instellingen met lopende band dienen de koppen en bandgeleiders gedemagnetiseerd en gereinigd te worden.

Benodigde meetinstrumenten en testcassettes

AC millivoltmeter  
Wow en flutter meter  
Testcassette SBC419Cr (4822 397 30069)

Bandsnelheid

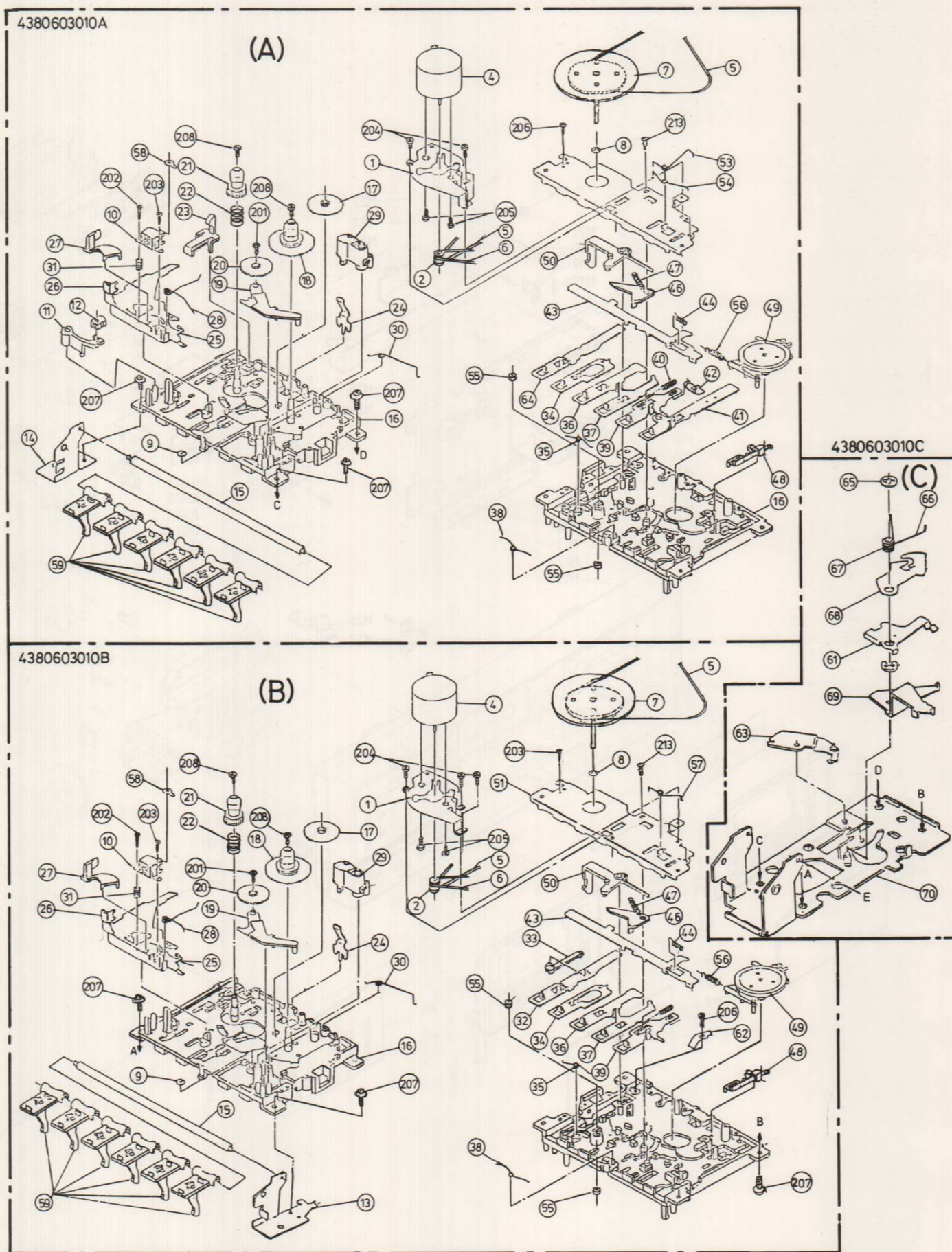
Na het vervangen van onderdelen die gevoelig zijn voor inlopen zoals snaren en motor wordt aanbevolen om de motorsnelheid op -1% verschil af te regelen. Na korte tijd zal de recorder de juiste bandsnelheid hebben.  
- Sluit een wow- en fluttermeter aan op testpunt 5 (6) voor deck A.  
- Speel van cassette SBC419 het 3150 Hz signaal af.  
- Regel met de potentiometer op de achterkant van de motor de snelheid zodat Wow = ± 1,5%; Flutter ≤ 0,2%.  
Herhaal de afregeling van deck B op testpunt 3 (4).

Opname/Weergave kop

Regel met de stelschroef (pos. 205) de kop af op maximaal uitgangssignaal en gelijkheid van signaalnivo van het linker- en rechter kanaal.

Cassette Deck Exploded view

TYPE NO: YMW47-310 PART NO: 4380603010



Mechanical Parts Tape Deck A

2	4822 528 81117	21	4822 492 51843
4	4822 361 20709	22	4822 492 51865
5	4822 358 30702	23	4822 403 50393
6	4822 358 30701	24	4822 492 63422
7	4822 528 60311	25	4822 403 52941
8	4822 530 80318	26	4822 403 52953
9	4822 530 80317	27	4822 403 52937
10	4822 249 10321	28	4822 492 41992
11	4822 403 52938	29	4822 403 40457
12	4822 249 40218	30	4822 492 41993
15	4822 535 92021	31	4822 492 51844
17	4822 522 32139	34	4822 403 10264
18	4822 528 10653	35	4822 492 41994
19	4822 403 52942	36	4822 403 30596
20	4822 522 32141	37	4822 403 30595

38	4822 492 41989	59	4822 410 30466
39	4822 403 30598	64	4822 403 30601
40	4822 492 32635	201	4822 502 12578
41	4822 403 30594	208	4822 502 12579
42	4822 403 30599	213	4822 502 12581
43	4822 403 30602		
44	4822 492 41996		
46	4822 403 10263		
47	4822 492 32634		
48	4822 277 30868		
49	4822 403 30589		
50	4822 403 52939		
53	4822 492 41991		
54	4822 492 41995		
56	4822 492 32636		

Mechanical Parts Tape Deck B

2	4822 528 81117	24	4822 492 63422
4	4822 361 20709	25	4822 403 52941
5	4822 358 30702	26	4822 403 52953
6	4822 358 30701	27	4822 403 52937
7	4822 528 60311	28	4822 492 41992
8	4822 530 80318	29	4822 403 40457
9	4822 530 80317	30	4822 492 41993
10	4822 249 10321	31	4822 492 51844
15	4822 535 92021	32	4822 403 30597
17	4822 522 32139	33	4822 403 30592
18	4822 528 10653	34	4822 403 10264
19	4822 403 52942	35	4822 492 41994
20	4822 522 32141	36	4822 403 30596
21	4822 492 51843	37	4822 403 30595
22	4822 492 51865	38	4822 492 41989

39	4822 403 30598	208	4822 502 12579
40	4822 492 32635	213	4822 502 12581
43	4822 403 30602		
44	4822 492 41996		
46	4822 403 10263		
47	4822 492 32634		
48	4822 277 30868		
49	4822 403 30589		
50	4822 403 52939		
56	4822 492 32636		
57	4822 492 41997		
59	4822 410 30466		
62	4822 492 63423		
64	4822 403 30601		
201	4822 502 12578		

Mechanical parts Holder Section

61	4822 403 10265
63	4822 403 30591
65	4822 530 80319
66	4822 492 41998
68	4822 403 10266
69	4822 403 30603

Note: only the parts mentioned in this partslist are normal service parts.