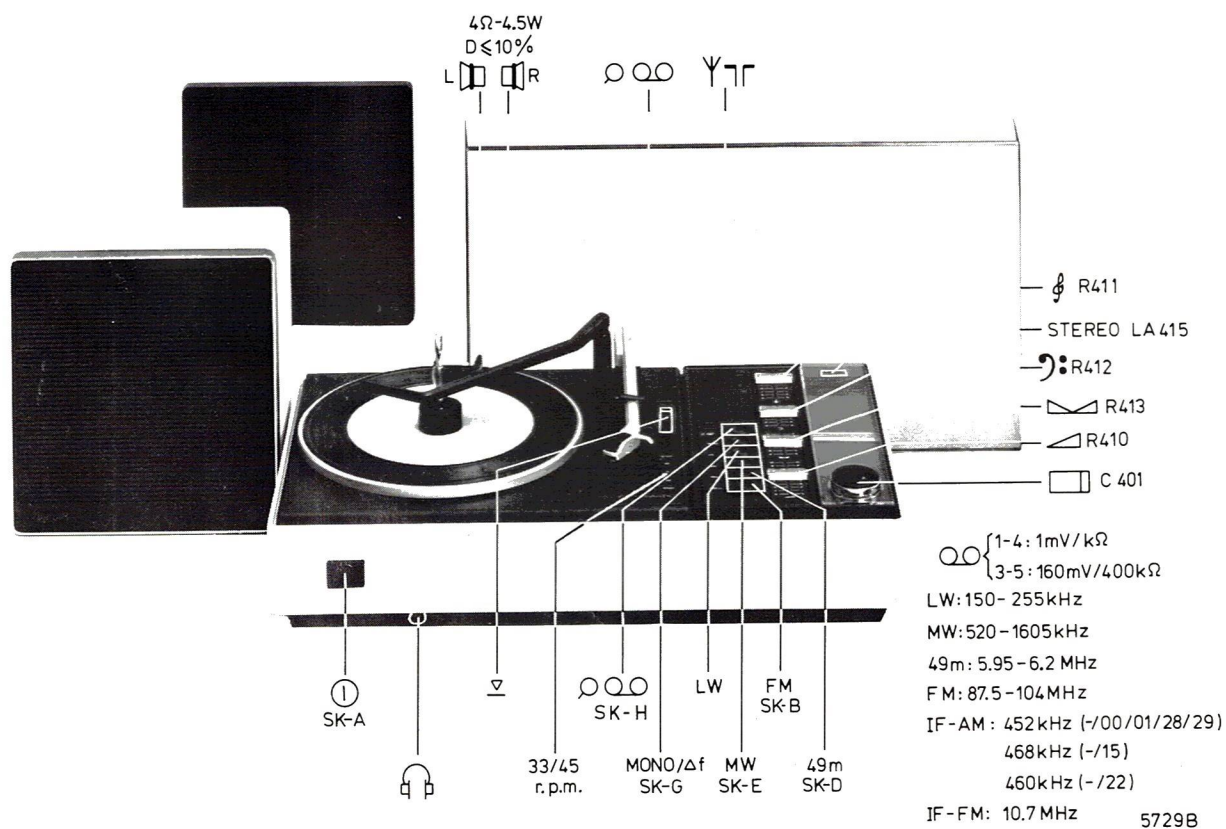


Service
Service
Service

For record-changer: see Service Manual
of GC051

Service Manual



Safety regulations require that the set be restored to its original condition
and that parts which are identical with those specified, be used.

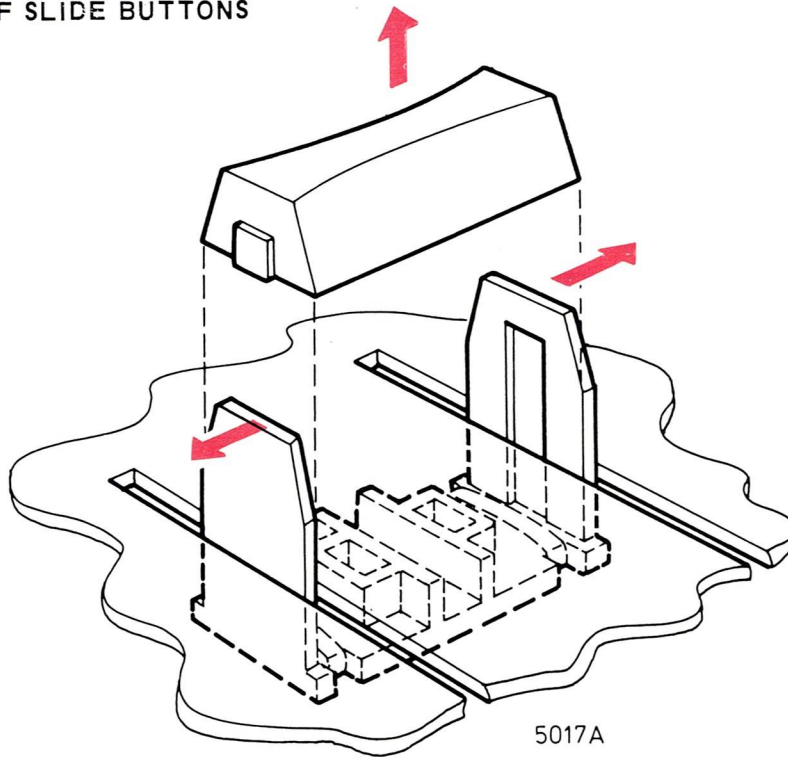
Documentation Technique Service Dokumentation Documentazione di Servizio Huolto-Ohje Manual de Servicio Manual de Servicio



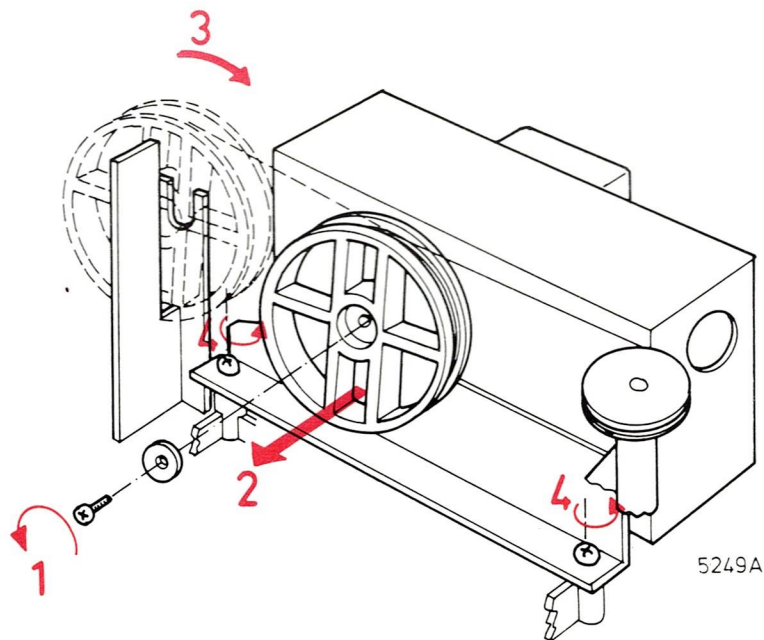
Subject to modification
4822 725 11385
Printed in The Netherlands

PHILIPS

REPLACEMENT OF SLIDE BUTTONS



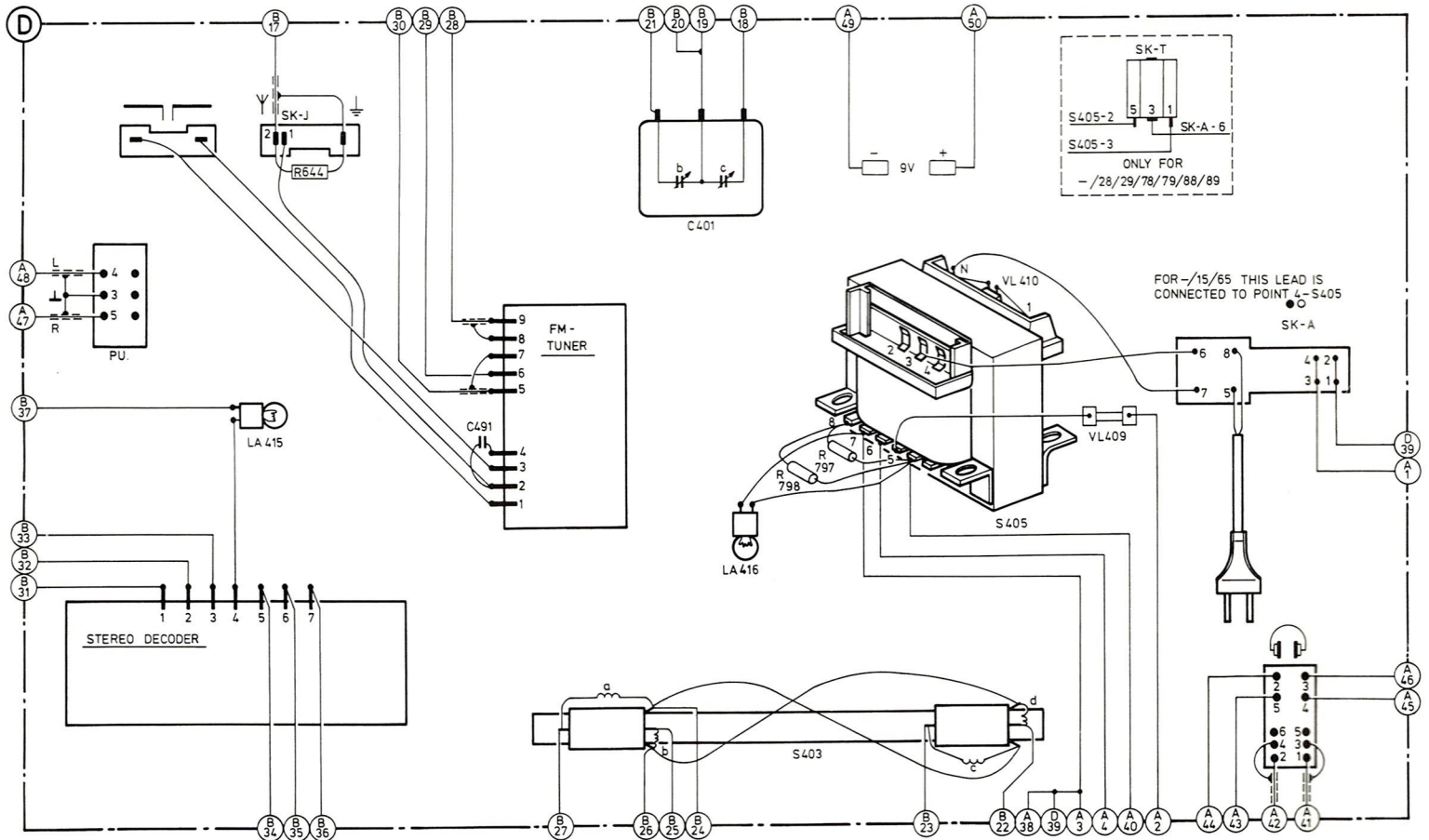
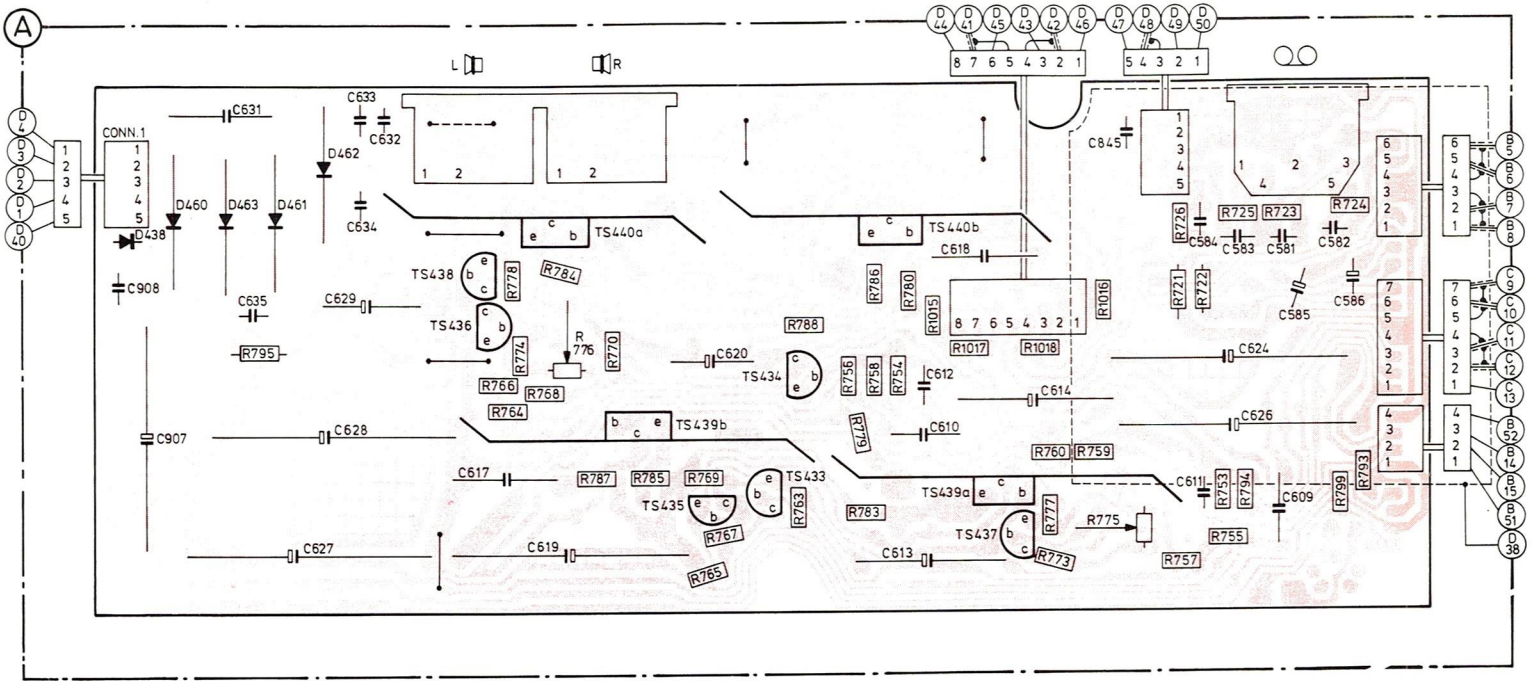
SERVICE POSITION OF VAR.CAP. DRUM



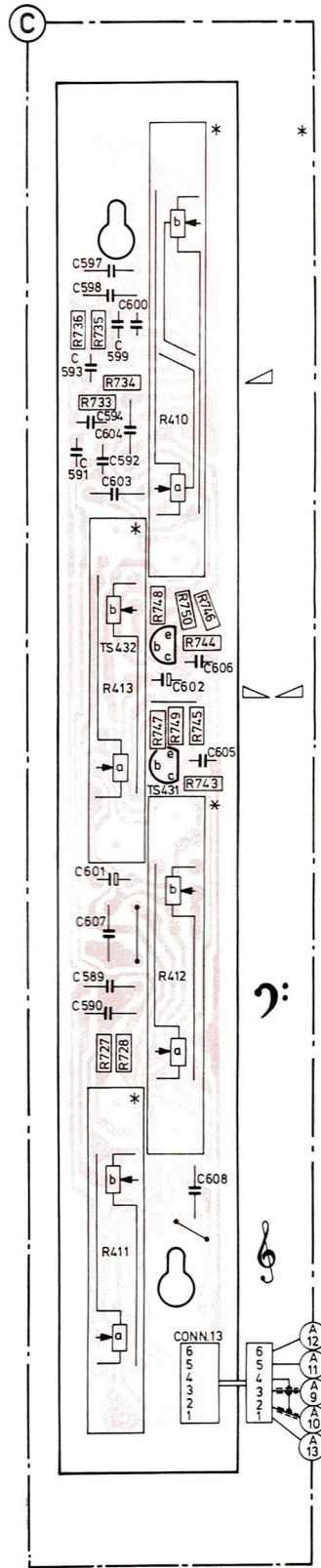
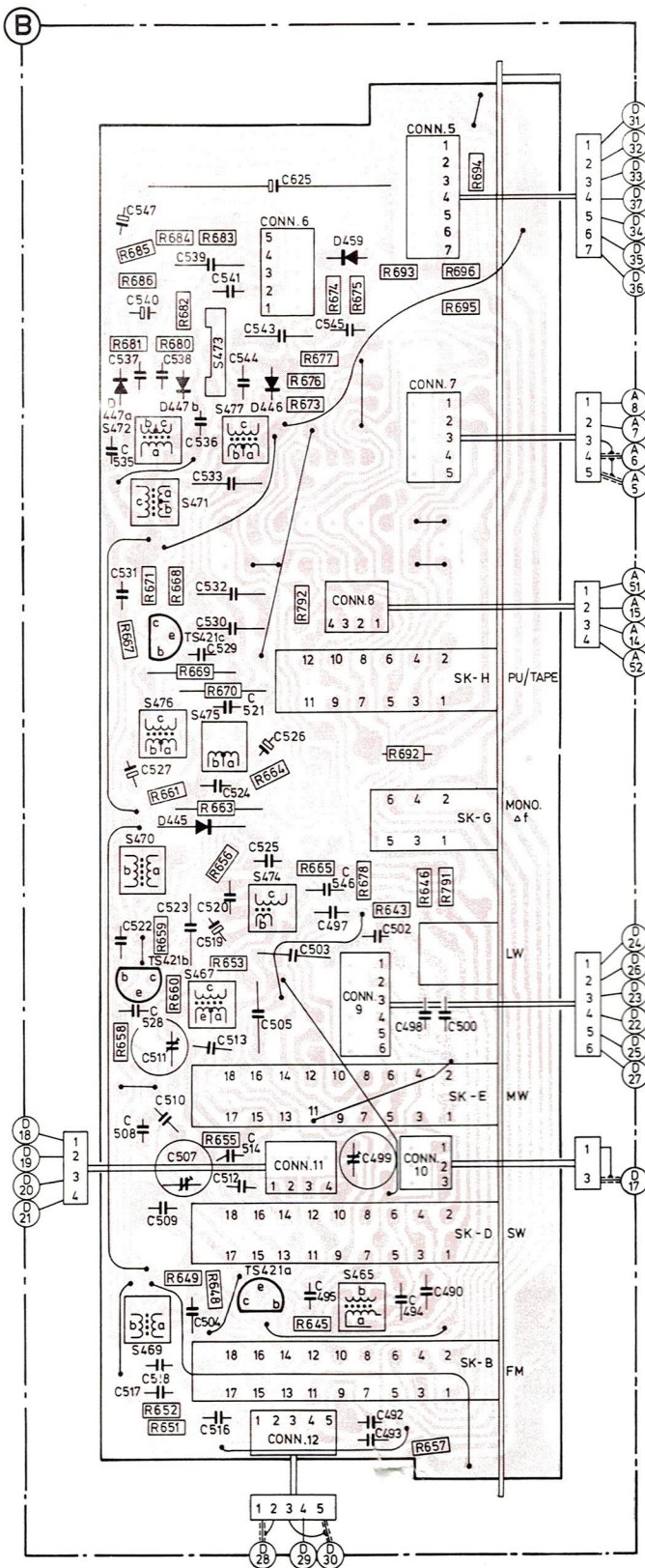
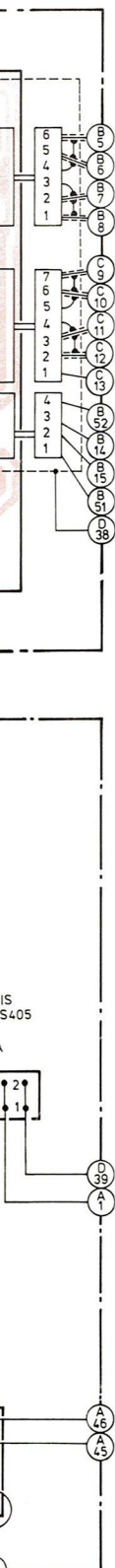
ATTENTION: REPLACEMENT OF VAR.CAP.

Keep during the replacement of the var.cap.
the pointer in the middle of the scale.

MISC	D438	D460	D463	D461	LA415	SK-J	D462	TS438	TS436	TS440a	TS439b	TS435	S403	TS433	LA416	TS434	TS440b	S405	TS439a	TS437	VL410	VL409	SK-T	S405-2-3	SK-A-8	SK-A						
C	908	907	631	635	627	628	629	632=634	617	491	619	620	401				613	612	610	618	614	845	611	624	626	609	581=586					
R			795					766	778	774	768	784	776	770		788	756	786	758	754	780		721	726	722	725	723	724				
R						644		764		787	785	769	765	767	763	779	783	1015	1017	1018	1016	760	777	773	759	775	757	755	753	794	793	799
R																																

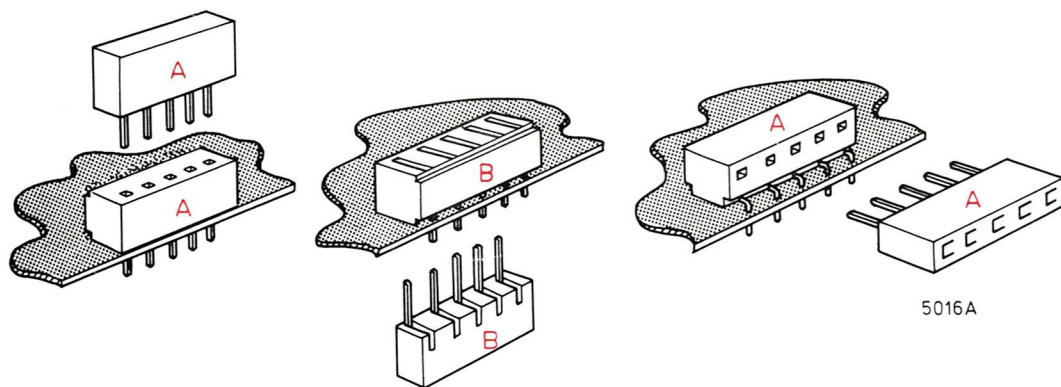


6	5	4	3	2	1
7	6	5	4	3	2
8	7	6	5	4	3
9	8	7	6	5	4
10	9	8	7	6	5
11	10	9	8	7	6
12	11	10	9	8	7
13	12	11	10	9	8
14	13	12	11	10	9
15	14	13	12	11	10
16	15	14	13	12	11
17	16	15	14	13	12
18	17	16	15	14	13
19	18	17	16	15	14
20	19	18	17	16	15
21	20	19	18	17	16
22	21	20	19	18	17
23	22	21	20	19	18
24	23	22	21	20	19
25	24	23	22	21	20
26	25	24	23	22	21
27	26	25	24	23	22
28	27	26	25	24	23
29	28	27	26	25	24
30	29	28	27	26	25

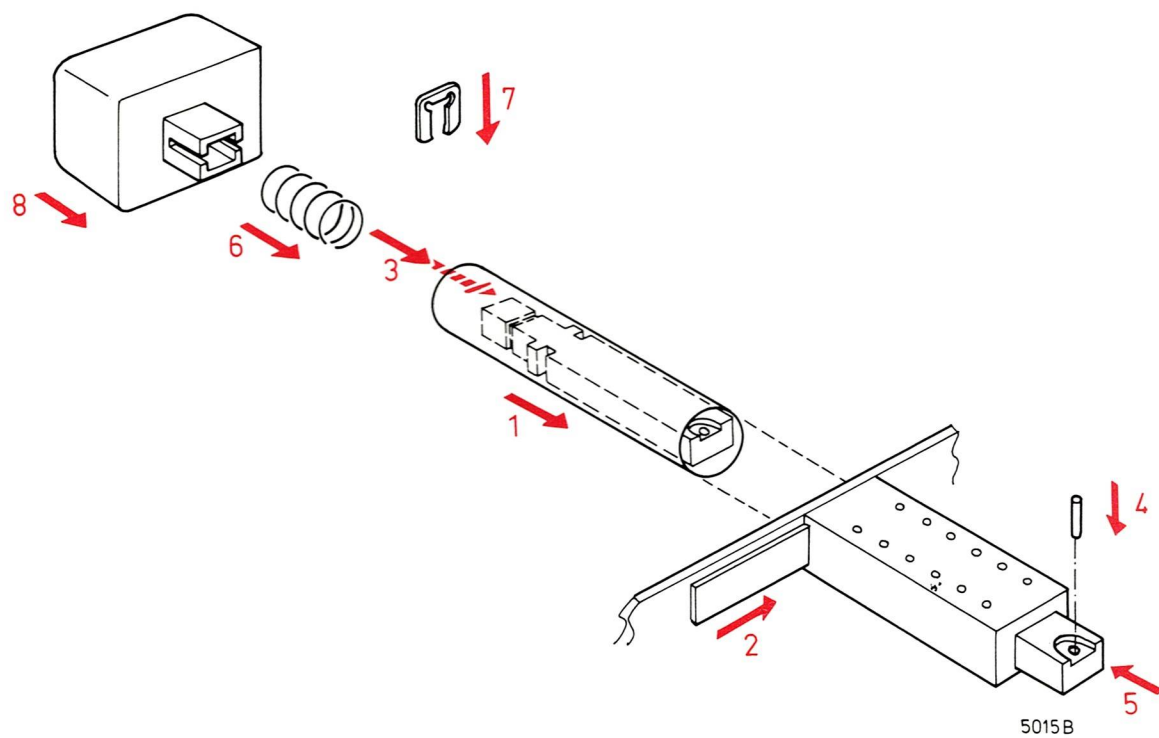
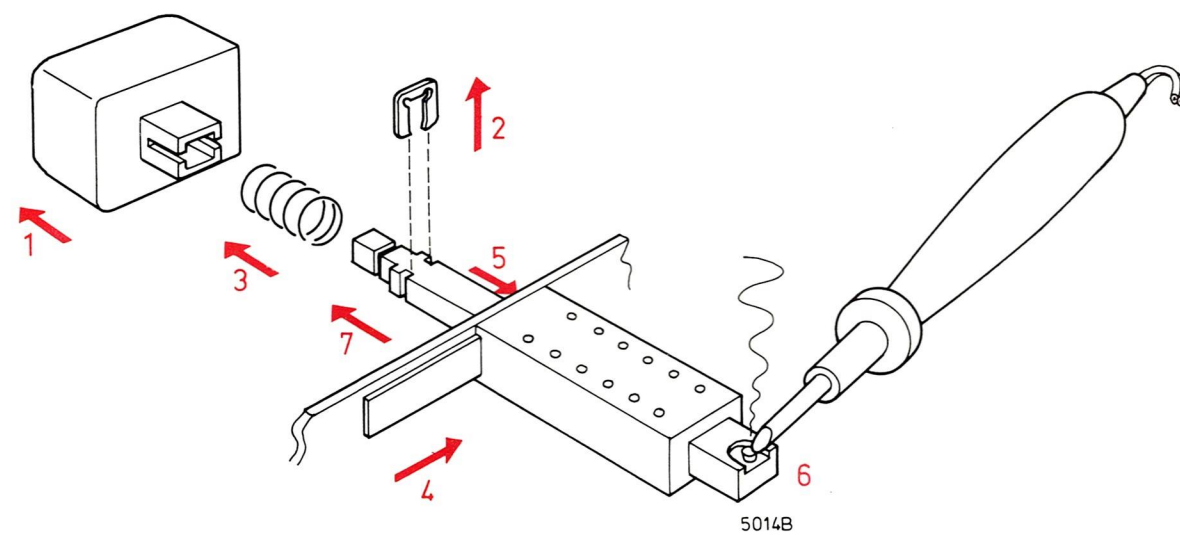


MISC.	C	C	R	R
		625	694	
		547	684	
			685	
			683	
D549	539	597	685	
	541	598	693	
	540	600	674	
	545		675	736
S473	543		695	735
			682	
			681	
D447a	538	593	677	734
D446	537		676	
D447b	544	673	733	
			410	
S472	536	594		
S477	537	604		
	535	591		
	533	592		
S471	535	603		
	531	671		
	532	668	748	
		792	750	
TS421c	530		746	
TS432	529	667	744	
SK-H		669		
	606			
	602	670		
	521		413	
S476			747	
S475	526	692	745	
	527	605	664	
TS431	524		661	743
			663	
SK-G				
D445	525	601	656	
			665	
S470	546		678	
	523		646	
S474	520		491	
	497	607	643	
	519		659	
	502			
TS421b	522	589	653	412
	503	590	660	
S467	500			
	498			
	505		727	
	513	658	728	
	511			
SK-E				
	510			
	508	655		
	499	514		
	507	608		
	512			
	509			
SK-D			411	
			649	
TS421a	490		648	
S465	495			
S469	494			
	504		645	
SK-B				
	518			
	517			
	492	652		
	516	651		
	493	657		

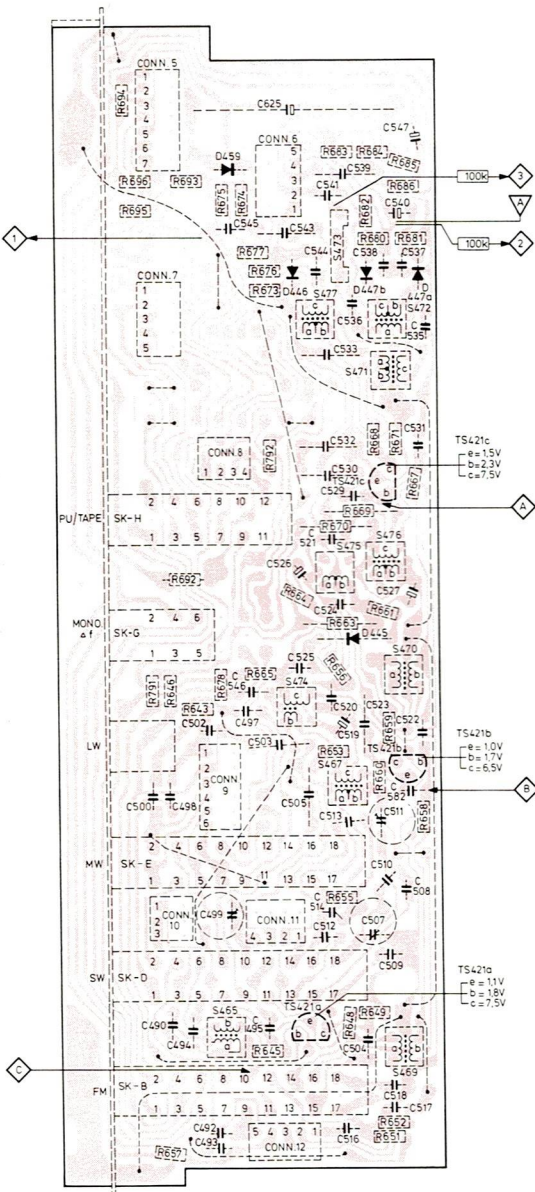
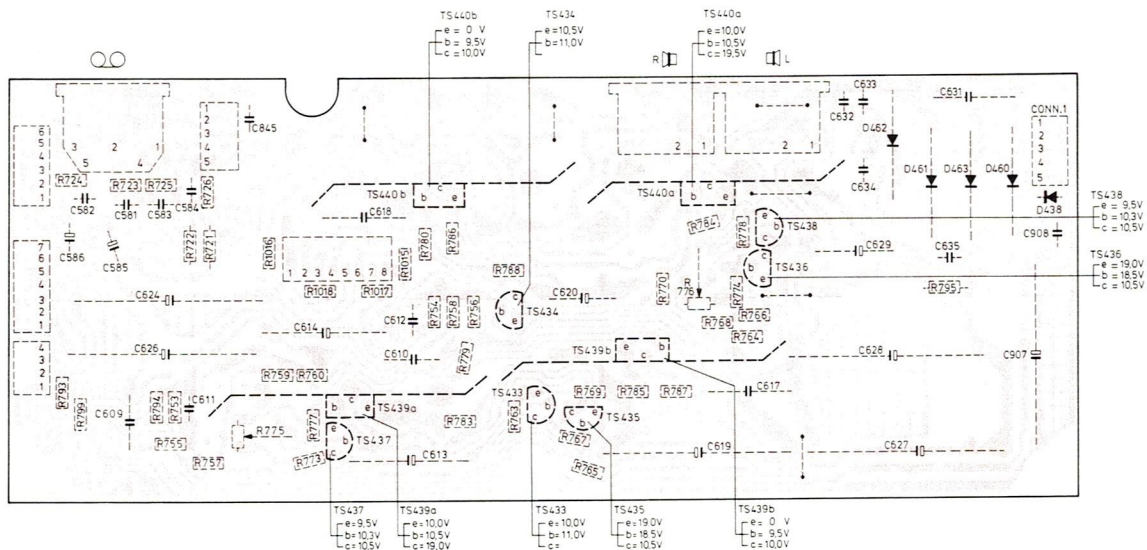
POSITIONING OF CONNECTORS



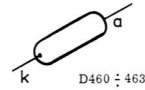
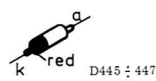
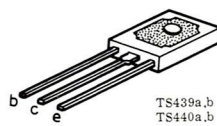
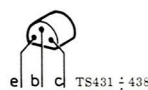
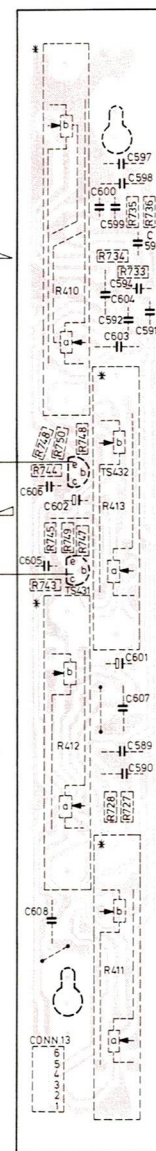
REPLACEMENT OF SLIDES OF WAVE RANGE SWITCHES



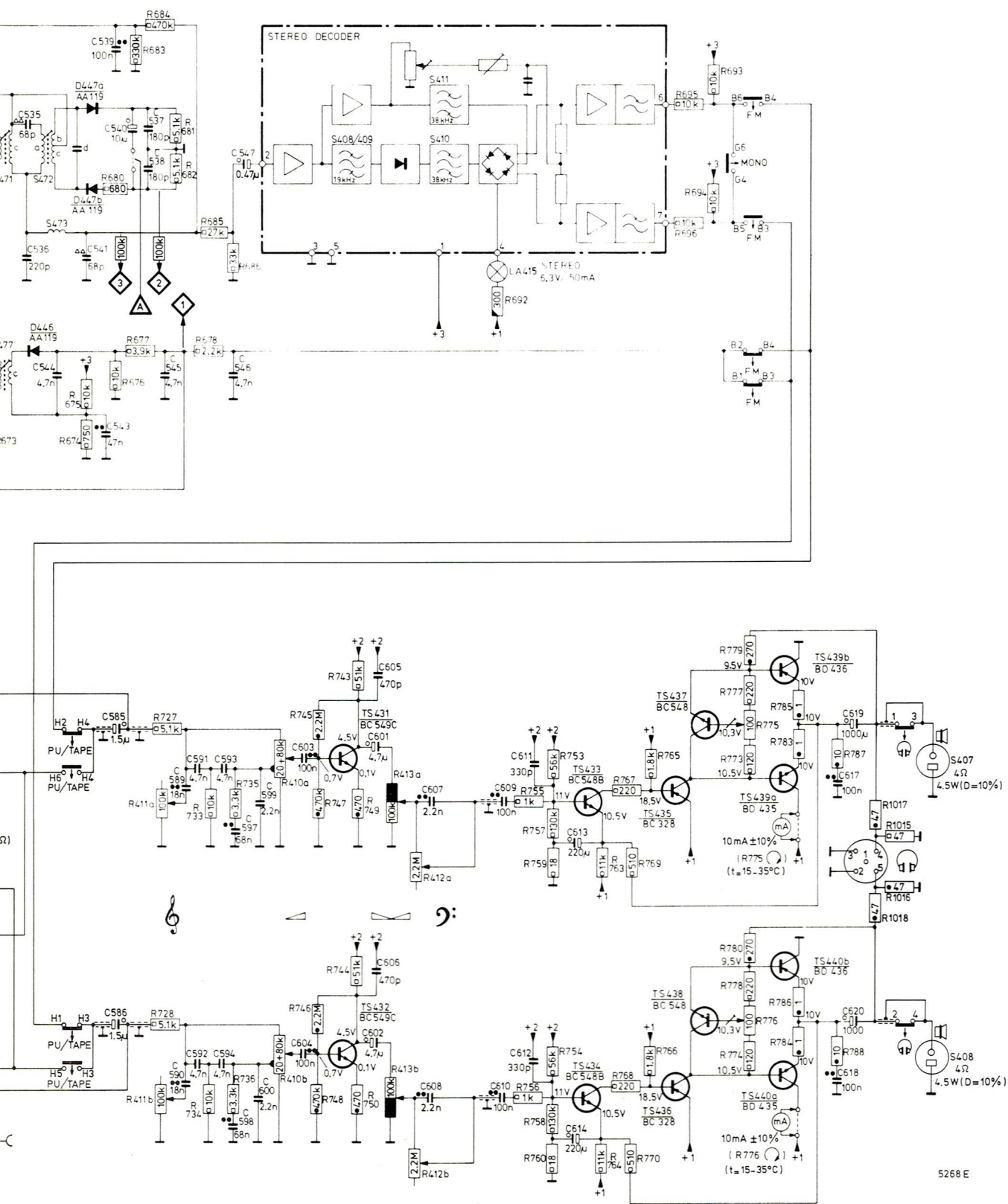
MISC	TS437	TS439a	TS440b	TS433-435	TS439b	TS440a	TS436	TS438	D460-463	D438
C	581-586	609 624 626 611	845	614 618 610 612 613	620	619	617	627-629	631-635	907 908
R	721-726	1016 1018 1017 1015	780 786	788	770 776 784	774 778	795			
R	793 799	794 753 755 757 775	759 760 773 777	754 758 756	779 783 763 767 765 769 785	787	768 764 766			



MISC	C	C	R	R
	625	694		
		647		
		683		
D459	539	685		
	541	675		
	540	686		
	540	687		
	541	688		
	543	689		
S473	537	690	735	
	538	691	736	
D466	539	692	737	
S477	537	693	738	
D477a	538	694	739	
S472	539	695	740	
	536	696		
	535	697		
	533	698		
S471	533	699		
	531	700		
	532	701		
TS432	530	702		
TS421c	529	703		
	606	704		
SK-4	602	705		
S476	602	706		
S475	521	707		
	526	708		
TS431	527	709		
	524	710		
SK-6	523	711		
D445	545	712		
S470	520	713		
S474	523	714		
	520	715		
	523	716		
	520	717		
	523	718		
TS421b	523	719		
S467	589	720		
	590	721		
	582	722		
	583	723		
	500	724		
	498	725		
	511	726		
	513	727		
SK-E	510	728		
	508	729		
	514	730		
	499	731		
	512	732		
	507	733		
	509	734		
SK-D		735		
TS421a	490	736		
S465	495	737		
	494	738		
S469	504	739		
	518	740		
	517	741		
SK-B	516	742		
	492	743		
	493	744		



CS51913



5268 E



Carbon resistor E24 series

0.125 W

5%



Plate ceramic capacitor



Carbon resistor E12 series

0.25 W

5 28



Flat-foil polyester capacitor

500 V



Carbon resistor E12 series

0.5 W

5%



Miniature electrolytic capacitor



Carbon resistor E12 series

1 W

5 28

NL

- 1 Afregelen op max. hoogte en symmetrie.
- 2 Onderbreek .
- 3 Sluit .
- 4 Afregelen op max. steilheid en symm. van de "S"-kromme.
- 5 0 V instellen zonder zwaai (Δf 200 kHz).
- 6 Naregelen op nuldoorgang van "S"-kromme.
- 7 Signaalsterkte zodanig dat stereoinicator werkt.
- 8 Het S-signaal afregelen op max. en zo dat een scherpe nuldoorgang zichtbaar is. (Fig. 1)

D

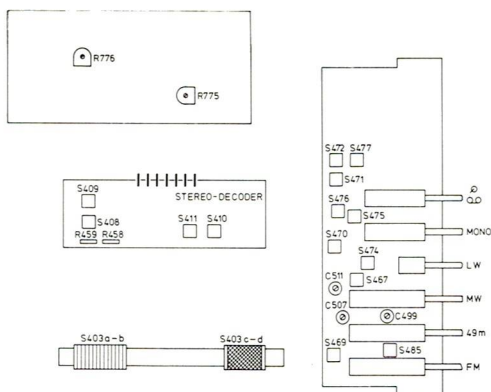
- 1 Justiere auf maximale Höhe und Symmetrie.
- 2 Unterbrich .
- 3 Schliesse .
- 4 Justiere auf maximale Schräge und Symmetrie der "S"-Kurve.
- 5 Stelle ohne Hub 0 Volt ein (Δf 200 kHz).
- 6 Reguliere den Nulldruchgang der "S"-Kurve nach.
- 7 Die Signalstärke muss so sein, dass der Stereoinikator arbeitet.
- 8 Justiere das "S"-Signal auf Maximum, bis ein scharfer Nulldurchgang sichtbar ist. (Fig. 1)

S

- 1 Justera för max höjd och symmetri.
- 2 Bryt .
- 3 Slut .
- 4 Justera för max höjd och symmetri på S-kurvan.
- 5 Justera 0 V utan svep (Δf 200 kHz).
- 6 Efterjustera S-kurvans nollgenomgang.
- 7 Signalvina så att stereoinikatorn börjar arbeta.
- 8 Justera "S" signalen till max och så att en väldefinierad nollgenomgang erhålls. (Fig. 1)

N

- 1 Juster til max. amplitude og symmetri.
- 2 Abn .
- 3 Luk .
- 4 Juster S-kurvan til max. stejlhed og symmetri.
- 5 Juster 0-volt uden sweep (Δf = 200 kHz).
- 6 Efterjuster S-kurvan til nul-aksekrydsning.
- 7 Forøg signalet således, at stereoindikatoren aktiveres.
- 8 Juster "S" - Signalet til max. således at en veldefineret nul-aksekrydsning er synlig. (Fig. 1)



F

- 1 Régler à la hauteur et la symétrie max.
- 2 Interrompre .
- 3 Fermer .
- 4 Régler à la pente et à la symétrie max. de la courbe "S".
- 5 Régler 0 V sans excursion (Δf 200 kHz)
- 6 Réajuster sur passage de zéro de la courbe "S".
- 7 Intensifier de façon que l'indicateur stéréophonique fonctionne.
- 8 Régler le signal "S" sur max. de façon que le passage de zéro net soit visible. (Fig. 1)

I

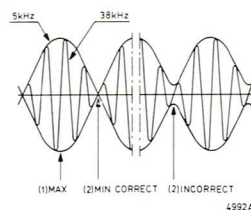
- 1 Regolare per altezza e simmetria massima.
- 2 Interrompere .
- 3 Chiudere .
- 4 Regolare per pendenza e simmetria massima della curva ad "S".
- 5 Regolare 0 V senza scarto (Δf 200 kHz)
- 6 Regolare di nuovo per passaggio per lo zero della curva ad "S".
- 7 Intensificare in modo che l'indicatore stereofonico funzioni.
- 8 Regolare il segnale "S" per massimo in modo che il passaggio per lo zero nitido sia visibile

DK

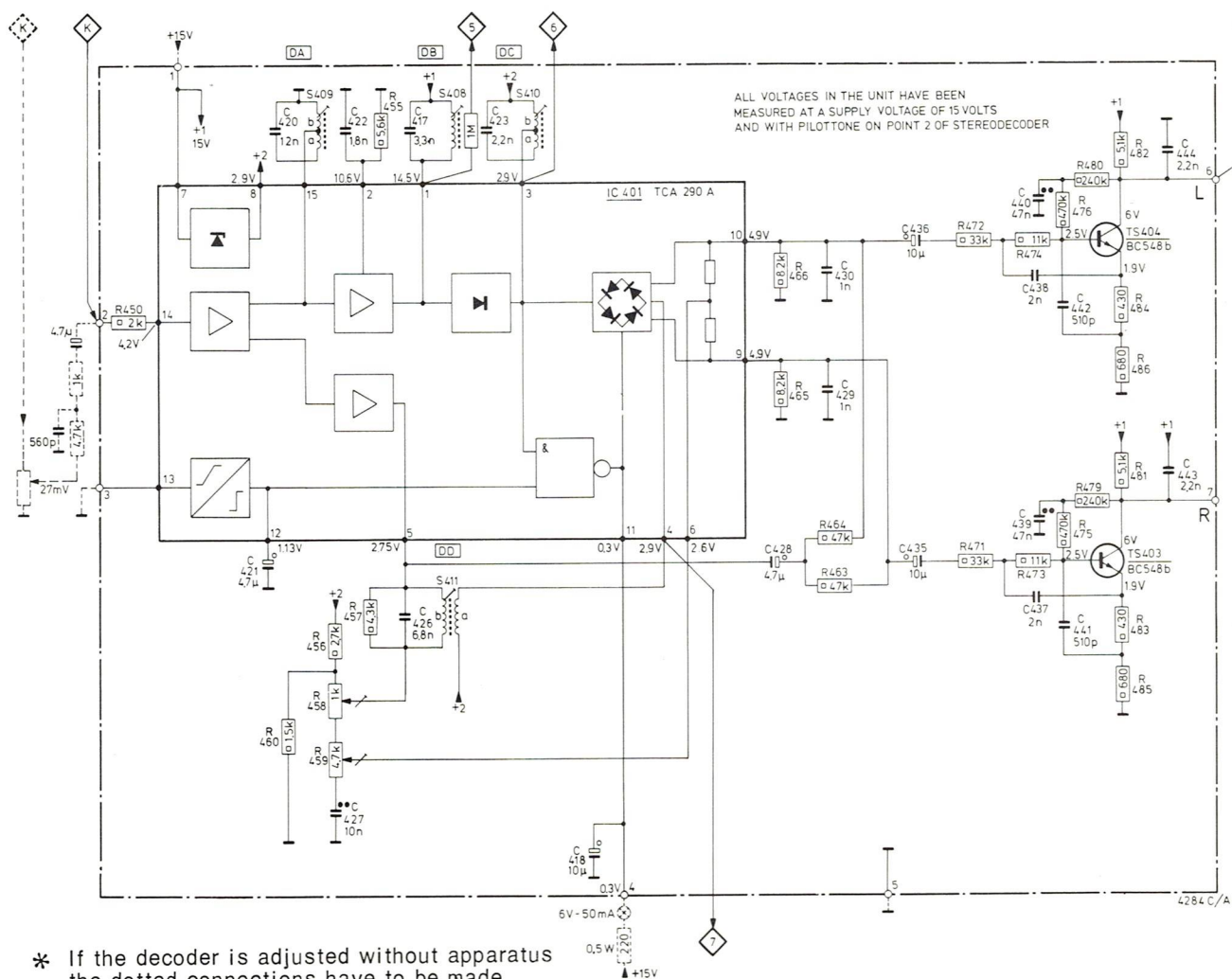
- 1 Justér til maks. amplitude og symmetri.
- 2 Bryt .
- 3 Forbind .
- 4 Justér til maks. helling og symmetri på "S"-kurve.
- 5 Justér 0 V uden sweep (Δf 200 kHz).
- 6 Rejustér til 0-gjennemgang på "S"-kurve.
- 7 Signalstyrke slik at stereoindikatoren virker.
- 8 Justér "S"-Signal til maks. og slik at en veldefineret 0-gjennemgang er synlig. (Fig. 1)

SF

- 1 Sääädä symmetriseksi ja amplituudi suurimmalleen.
- 2 Katkaise .
- 3 Sulje .
- 4 Sääädä S-käyrän jyrkkyys ja symmetrisyys maksimiin.
- 5 Sääädä 0 V ilman pyyhkäisyä (Δf 200 kHz).
- 6 Sääädä uudelleen S-käyrän 0-kohta.
- 7 Signaalin voimakkuuden tulee olla niin suuri, että stereoilmaisoin toimii.
- 8 Sääädä S-signaali maksimiinsa ja sellaiseksi, että 0-kohta näkyy selvästi. (Kuva 1)

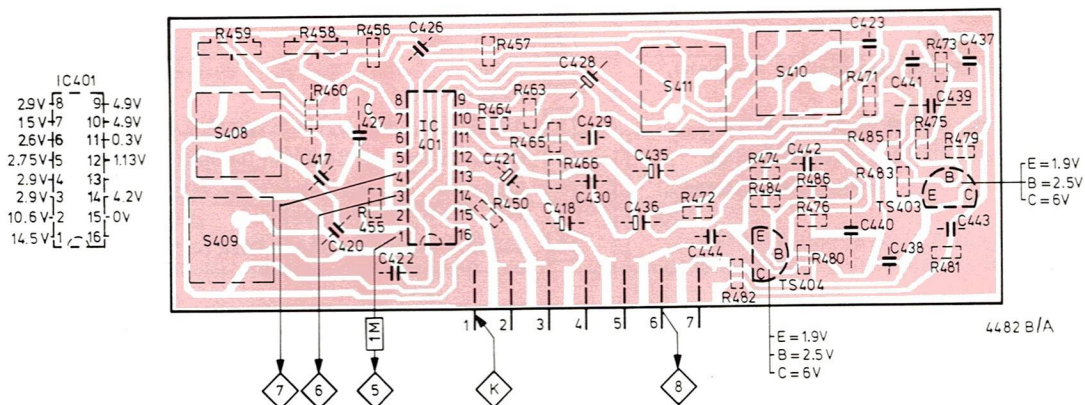
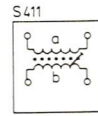
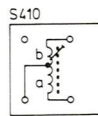
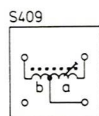
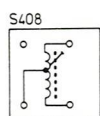


STEREO-DECODER

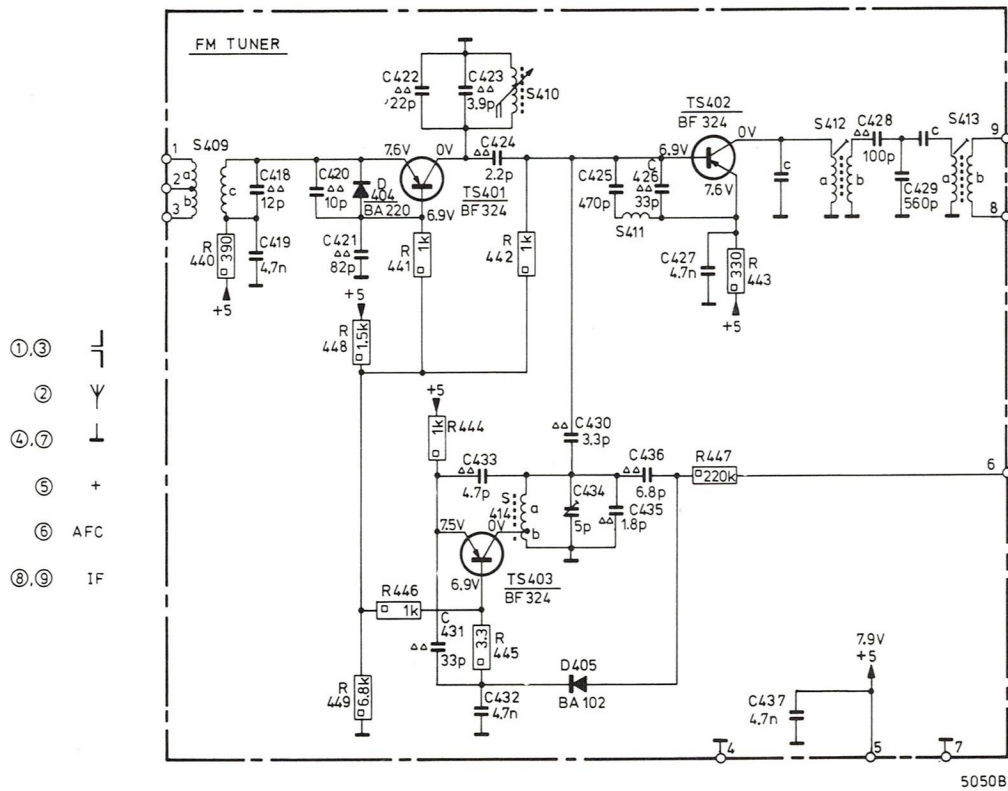


* If the decoder is adjusted without apparatus the dotted connections have to be made

** In the apparatus the supply voltage of the stereo decoder is 8.2 V



FM TUNER



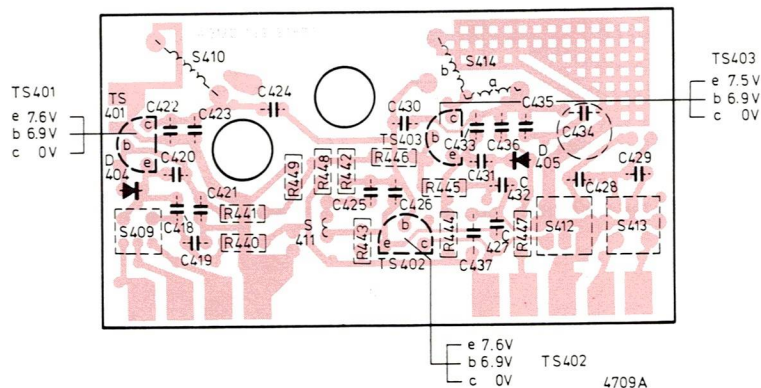
S409



S412



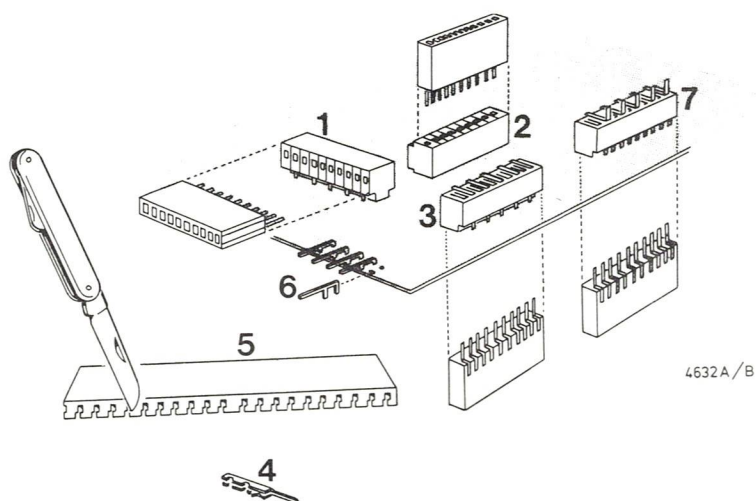
S413



MECHANICAL PARTSLIST

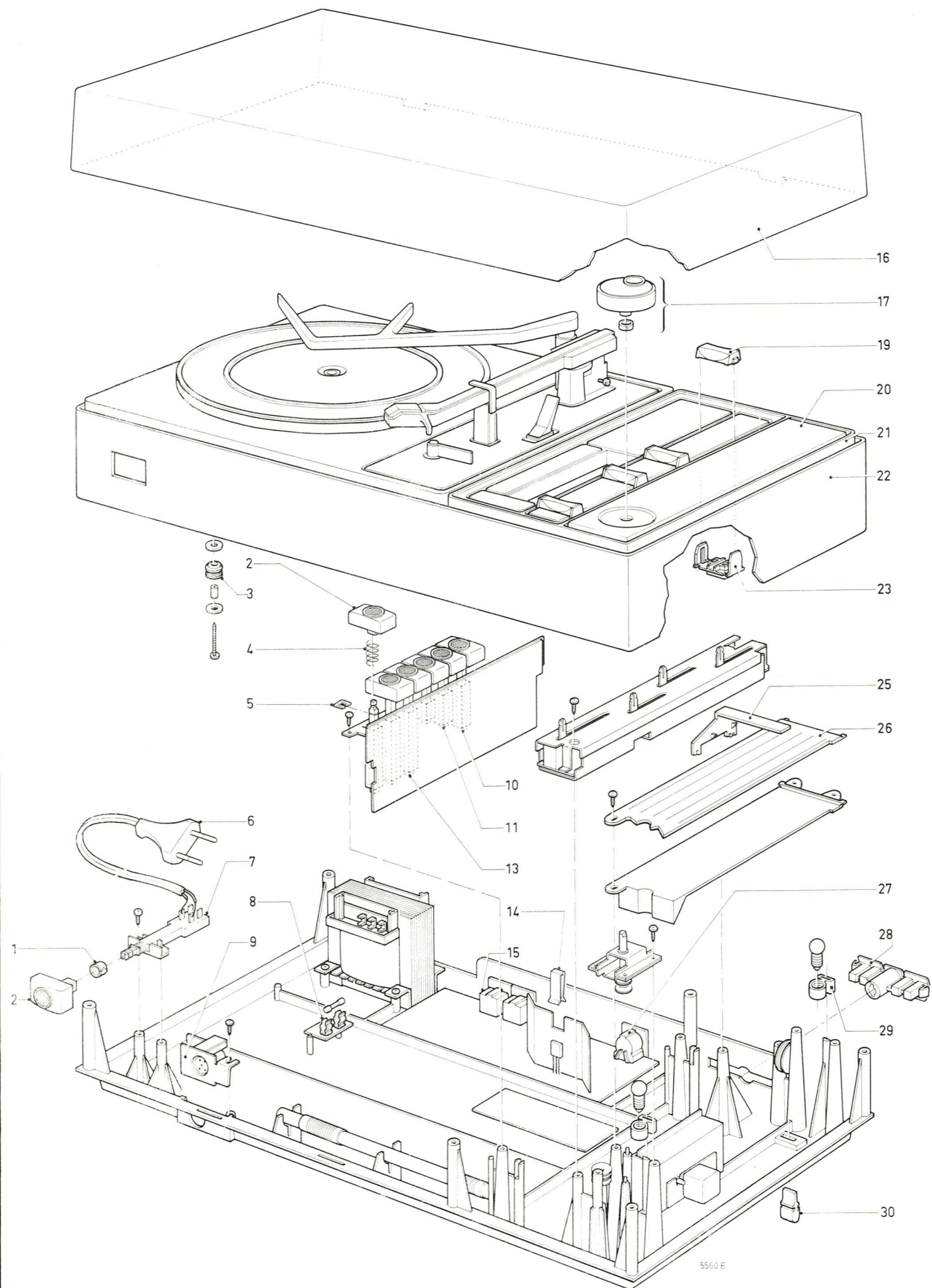
1	4822 492 62007	17	4822 413 50872
2	4822 410 21556	19	4822 411 60365
3	4822 462 71016	20	4822 450 60125
4	4822 492 51088 (325gf)	21	4822 426 40053
	4822 492 51087 (700gf)	22	4822 426 90026
5	4822 530 70287	23	4822 404 20153
6	4822 321 10084	25	4822 450 80415
7	4822 276 10557	26	4822 333 10031
8	4822 256 30117	27	4822 267 40209
9	4822 267 40155	28	4822 267 20155
10	4822 278 30103	29	4822 255 10007
11	4822 278 30097	30	4822 462 40245
13	4822 278 30104	31	4822 445 10046
14	4822 492 61976	32	4822 445 20007
15	4822 267 30198		4822 445 20008 (-/28)
16	4822 426 60082		

Cabinet LS-box
Front LS-box
Front LS-box



AMP PARTSLIST

1	5322 267 64027 (10 p)
2	4822 267 50209 (10 p)
3	4822 267 50211 (10 p)
4	4822 268 10107
5	5322 267 64007 (20 p)
6	5322 264 54017 (strip)



5560 E

M
1
2
3
4
5
6
7
8
9
1
1
1
1
1

-S- 			-D- 		
S403	Ferroceptor	4822 158 60371	D438	BAX18	5322 130 34121
S405	Mains transformer	4822 146 20505	D445	AA119	5322 130 40229
S407	Loudspeaker	4822 240 60036	D446	AA119	5322 130 40229
S408	Loudspeaker	4822 240 60036	D447	pair 2xAA119	4822 130 30312
S465	Aerial coil SW	4822 156 40616	D459	BZX61/C8V2	5322 130 34115
S467	Oscillator coil	4822 156 30505	D460	BY126	5322 130 30192
S469	FM, IF	4822 153 50205	D461	BY126	5322 130 30192
S470	FM, IF	4822 153 50206	D462	BY126	5322 130 30192
S471	FM, IF	4822 153 50207	D463	BY126	5322 130 30192
S472	FM, IF	4822 153 50208			
S473	Choke	4822 157 10007	-C- 		
S474	AM, IF	4822 153 10292	C401a	Var.cap.	4822 125 20184
S475	AM, IF	4822 153 10292	C492	10 nF, 20 %	4822 122 30043
S476	AM, IF	4822 153 10292	C493	22 nF, 20 %	5322 122 30103
S477	AM, IF	4822 153 10293	C497	330 pF, 2 %	4822 122 30055
-R- 			C498	330 pF, 2 %	4822 122 30055
R410	Slide potm. 80+20 k log.	4822 105 10166	C499	Trimmer 10 pF	4822 125 50062
R411	Slide potm. 100 k log.	4822 105 10167	C500	91 pF, 1 %	4822 121 50577
R412	Slide potm. 2M2 log.	4822 105 10168	C502	3000 pF, 1 %	4822 121 50414
R413	Slide potm. 100 k lin.	4822 105 10169	C504	10 nF, 20 %	4822 122 30043
R644	VDR	4822 116 20073	C507	Trimmer 5.5 pF	4822 125 50061
R775	Preset potm. 100 Ω	4822 100 10075	C511	Trimmer 10 pF	4822 125 50062
R776	Preset potm. 100 Ω	4822 100 10075	C512	300 pF, 1 %	4822 121 50086
R783	1 Ω , 1/4 W	4822 110 53027	C513	280 pF, 1 %	4822 121 50573
R784	1 Ω , 1/4 W	4822 110 53027	C516	4700 pF, 10 %	4822 122 30128
R785	1 Ω , 1/4 W	4822 110 53027	C518	10 nF, 20 %	4822 122 30043
R786	1 Ω , 1/4 W	4822 110 53027	C520	10 nF, 20 %	4822 122 30043
- Miscellaneous -			C524	10 nF, 20 %	4822 122 30043
VL409	2 A slow	4822 253 30025	C525	10 nF, 20 %	4822 122 30043
VL410	Trafo fuse	4822 252 20071	C536	220 pF, 10 %	4822 122 31173
L415	6 V, 50 mA	4822 134 40003	C537	180 pF, 10 %	4822 122 31172
L416	12 V, 100 mA	4822 134 40012	C538	180 pF, 10 %	4822 122 31172
U401	FM tuner	4822 210 10177	C544	4.7 nF, 10 %	4822 122 30128
U406	Stereo decoder	4822 210 30027	C545	4.7 nF, 10 %	4822 122 30128
-TS- 			C546	4.7 nF, 10 %	4822 122 30128
TS421a,b,c	packet	4822 130 40949	C581	180 pF, 10 %	4822 122 31172
TS431	BC549C	5322 130 44216	C582	180 pF, 10 %	4822 122 31172
TS432	BC549C	5322 130 44216	C583	180 pF, 10 %	4822 122 31172
TS433	BC548b	4822 130 40937	C584	180 pF, 10 %	4822 122 31172
TS434	BC548b	4822 130 40937	C591	4.7 nF, 10 %	4822 122 30128
TS435	BC328	5322 130 44104	C592	4.7 nF, 10 %	4822 122 30128
TS436	BC328	5322 130 44104	C593	4.7 nF, 10 %	4822 122 30128
TS437	BC548	4822 130 40938	C594	4.7 nF, 10 %	4822 122 30128
TS438	BC548	4822 130 40938	C599	2.2 nF, 10 %	4822 122 30114
TS439	pair BD435/436	4822 130 40978	C600	2.2 nF, 10 %	4822 122 30114
TS440	pair BD435/436	4822 130 40978	C605	470 pF, 10 %	4822 122 31177
			C606	470 pF, 10 %	4822 122 31177
			C611	330 pF, 10 %	4822 122 31165
			C612	330 pF, 10 %	4822 122 31165
			C632	1200 pF, 10 %	4822 122 31171
			C633	1200 pF, 10 %	4822 122 31171
			C634	1200 pF, 10 %	4822 122 31171
			C635	1200 pF, 10 %	4822 122 31171

