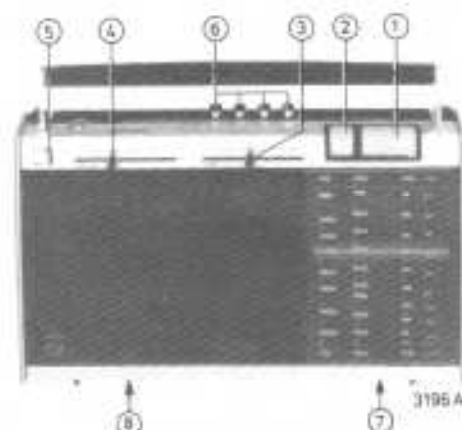


Service manual

RADIO 90RL414

00/15/22



Dimensions: 300 x 160 x 80 mm

PHILIPS



①	Tuning Afstemming Syntonisation Abstimmung Sintonia	VC	②	Fine tuning Fijneafstemming Réglage fin Feinabstimmung Sintonia fine	CS7	③	Tone control Toonregeling Commande de tonalité Klangreglung Controllo di tono	R46
④	Volume control Volumeregeling Commande de volume Lautstärkeregelung Controllo di volume	R48	⑤	On-off switch Aan-uit schakelaar Commutateur marche/arrêt Ein/Aus-Schalter Commutatore marcia/termo	SK-F	⑥	Wave range switch Golfbereikschakelaar Sélecteur de gammes d'onde Wellenbereichschalter Commutatore di scale d'onde	SKA-D
⑦	Switch PU/Radio Schakelaar PU/Radio Sélecteur PU/radio Schalter T.A./Radio Commutatore giradischi/radio	SK-E	⑧	Main switch Netspanningsschakelaar Commutateur secteur Netzschalter Commutatore di rete	SK-G			

GB		NL		F		D		I	
Supply voltage	9 V (6x1.5 V)	Voedingsspanning		Tension d'alimentation		Speisespannung	9 V (6x1.5 V)	Tensione d'alimentazione	
External supply	220 V/117 V	Externe voeding		Alimentation externe		Externe Speisung	220 V/117 V	Alimentazione esterna	
Consumption FM	27 mA	Verbruik FM		Consommation FM		Verbrauch UKW	27 mA	Assorbimento FM	
(without signal) AM	22 mA	(zonder signaal) AM		(sans signal) AM		(ohne Signal) AM	22 mA	(senza segnale) AM	
Output power	1 W	Uitgangsvermogen		Puissance de sortie		Ausgangsleistung	1 W	Potenza uscita	
Loudspeaker	8 Ω	Luidspreker		Haut-parleur		Lautsprecher	8 Ω	Altoparlante	
IF-AM /00	452 kHz	MF-AM /00		FI-AM /00		ZF-AM /00	452 kHz	FI-AM /00	
/15	479 kHz	/15		/15		/15	479 kHz	/15	
/22	460 kHz	/22		/22		/22	460 kHz	/22	
IF-FM	10.7 MHz	MF-FM		FI-FM		ZF-UKW	10.7 MHz	FI-FM	

Wave ranges - Golfbereiken - Gammes d'onde - Wellenbereiche - Gamme d'onde

LW - LG - GO - LW - OL	: 150 - 300 kHz (2000 - 1150 m)
MW - MG - PO - MW - OM	: 520 - 1605 kHz (577 - 187 m)
SW - SG - OC - KW - OC	: 5.95 - 18.3 MHz (50 - 16 m)
FM - UKW	: 87.5 - 104 MHz

Index: C537379-C537384



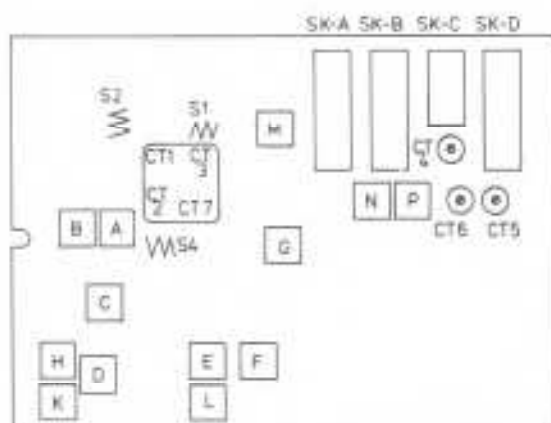
Subject to modification

4622 725 11113

Printed in the Netherlands

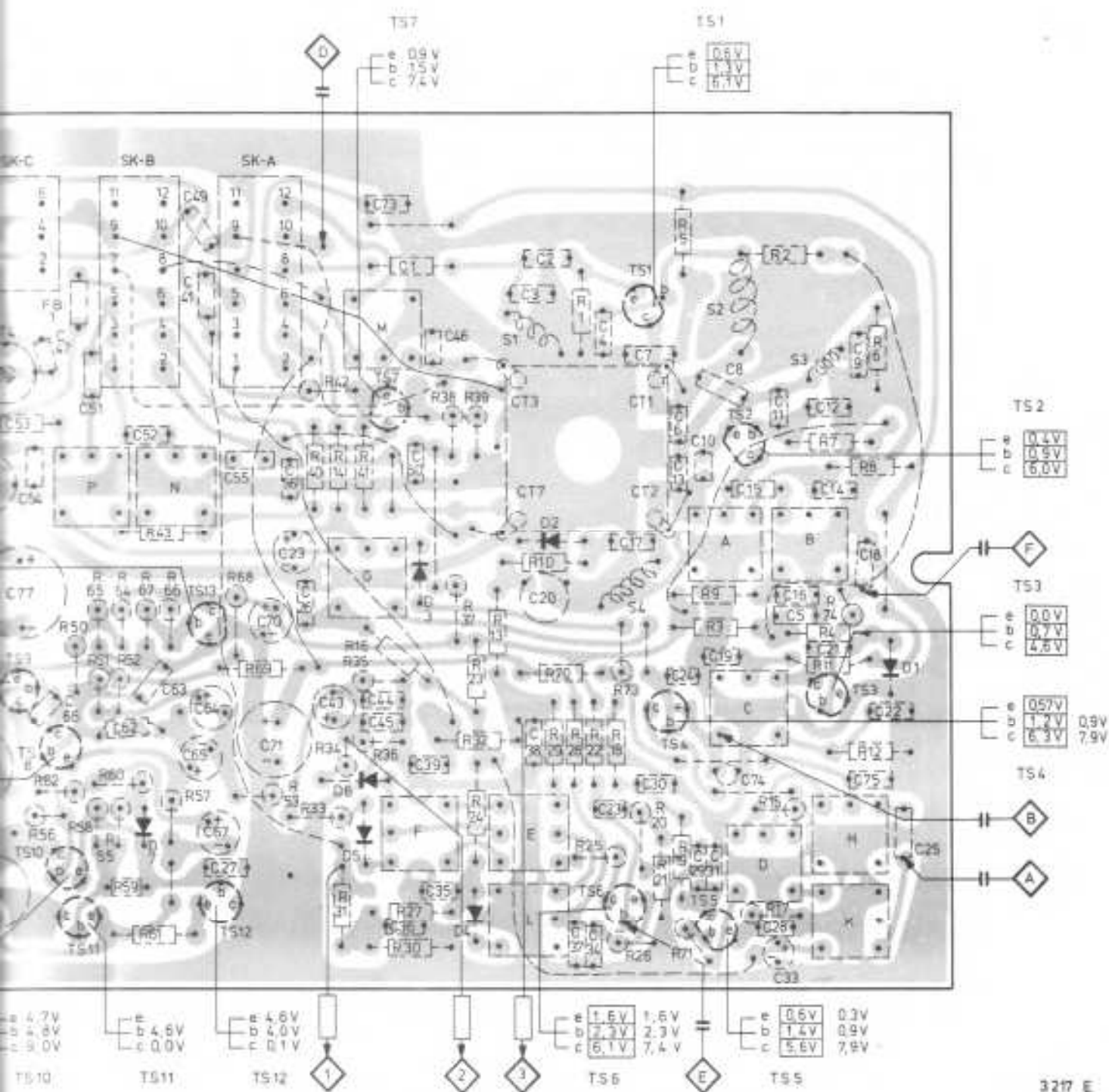
Wave range SK	Signal to 		 Varloosp	Detune 	Adjust 	Indication 
MW (520-1605 kHz)	 /33 nF	  	Min.	   	   	 /100 kΩ Max.
MW (525-1605 kHz)	512 kHz 1825 kHz 600 kHz 1400 kHz		Max. Min. Tune in		 CT6 S16a,c CT4	 /100 kΩ Max.
LW (150-260 kHz)	147 kHz 200 kHz		Max. Tune in		CT6 S16b,d	
SW (5.95-18.2 MHz)	5.8 MHz 18.7 MHz 6.5 MHz 17.8 MHz		Max. Min. Tune in		 CT7  CT3	
FM (87.5-104 MHz)	 10.7 MHz /4.7 nF Δf=200 kHz (50 Hz)	   	Max.	     	     	  /100 kΩ   /100 kΩ
FM (87.5-104 MHz)	86.5 MHz 105 MHz 88 MHz 104 MHz		Max. Min. Tune in		S4 CT2 S2 CT1	 /100 kΩ Max.

Repeat - Herhalen - Répéter - Wiederholen - Reptiere

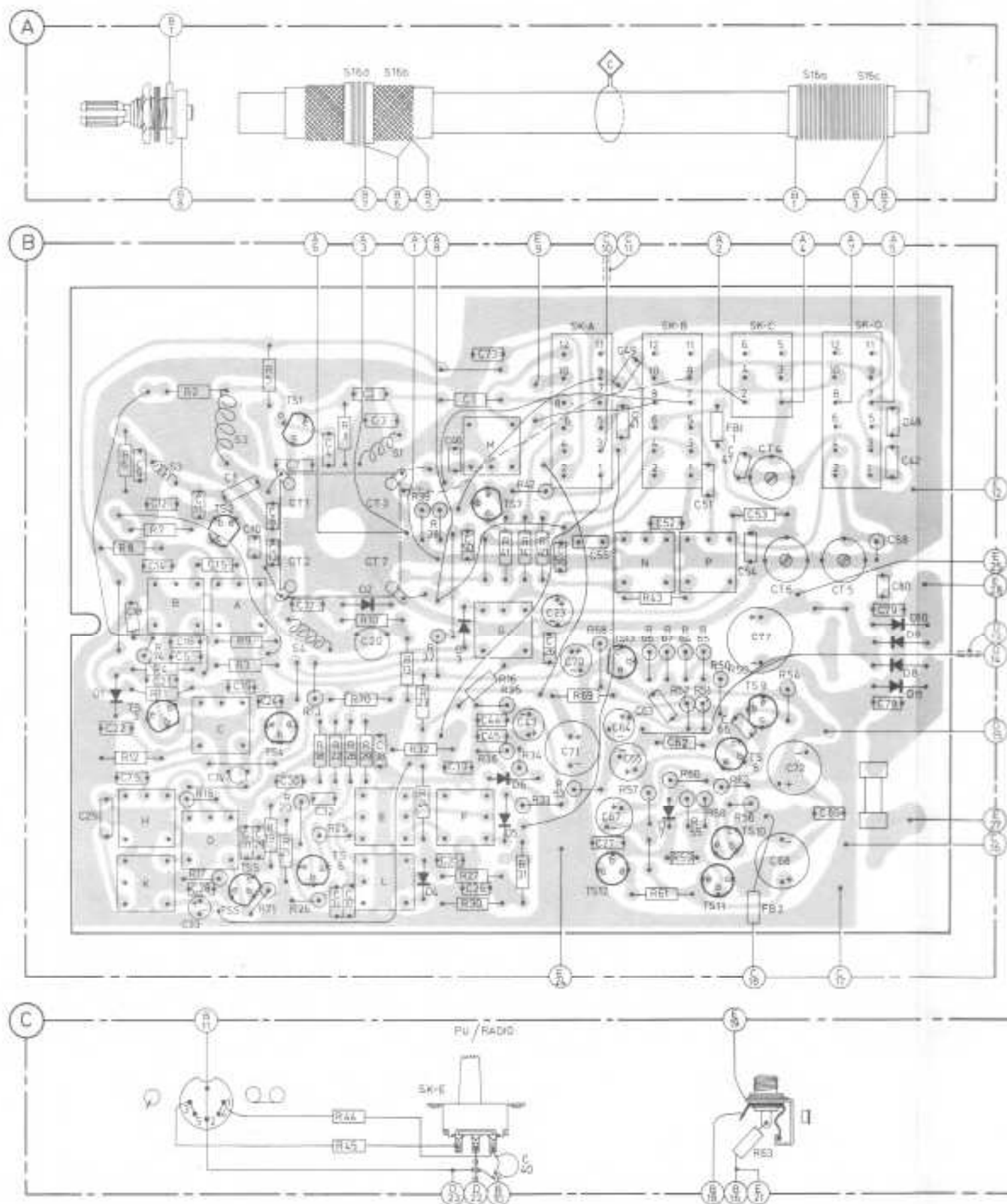


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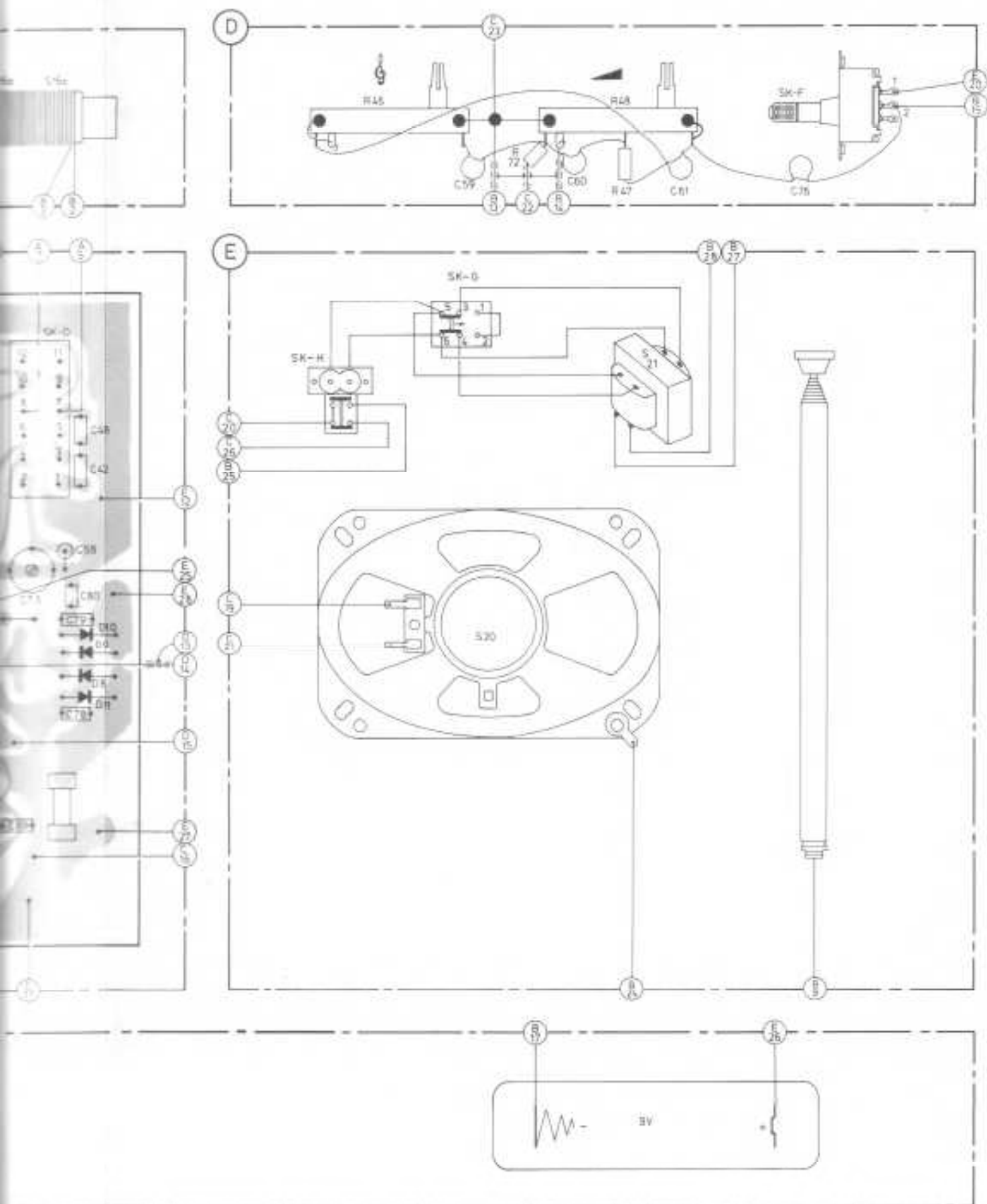
TS8-11, P	D7.N TS13.12	D56.TS7.G. M	F034	L E.1.02.	4TS14.56 TS2.A 2.C. D3.TS3.B.K.H.D1	M
54 47 51 52 41 49 55 70 23 56	73 50 1 48	CT7 CT3 2-4 17.7 CT	CT11 13 6 10 19 8 15 11 5 16 14 12 9 18			C
77 58	52 63 65 64 67 27 71 26 43 45 44 36 39 35 20	38 37 34 32 30 24 29 31 74 28 33	21 75 22 25			C
50+52 64-67 43	68 34 40 14 42 41 37 38 39	13 10 70 1 22 18 73 5 9 3	2 7 4 8 6 74			R
52 58-60 55 61 57 65 53 33 31 35 16 36 30 27 24 32 23	29 28	25 26 20 21 19 71	15 17 11 12			R



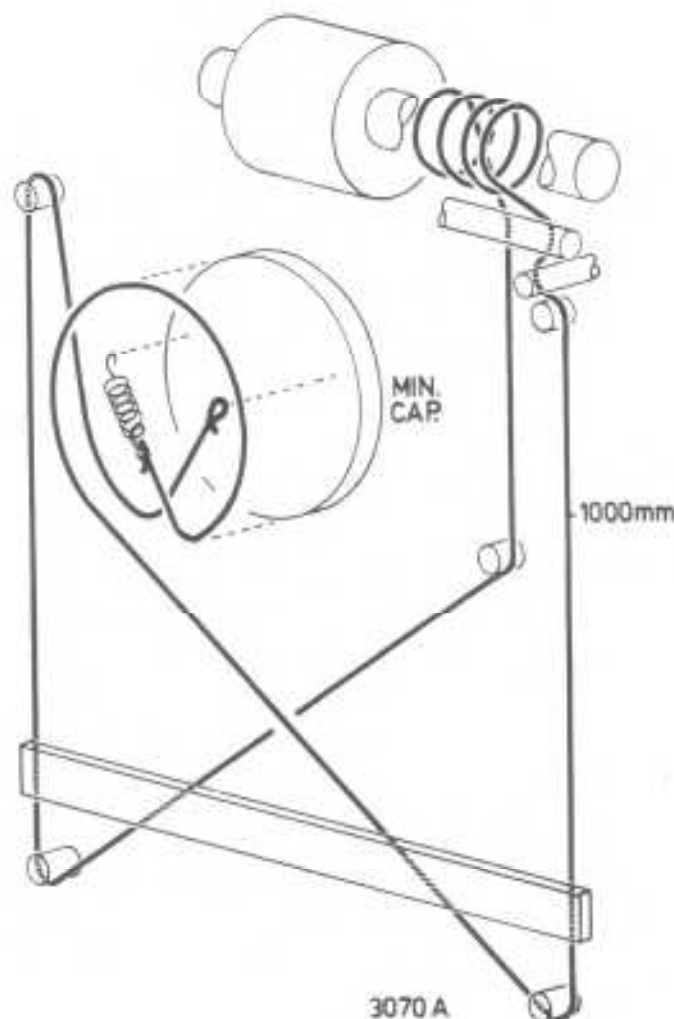
M	DV T53	H K 6	1	Q C 2	AT55341	±T56	16d1F02 L 16d04 F 03	MG T57 D50	T54212 N	D7	P T58+11	DE+11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
C	18	9	12	14	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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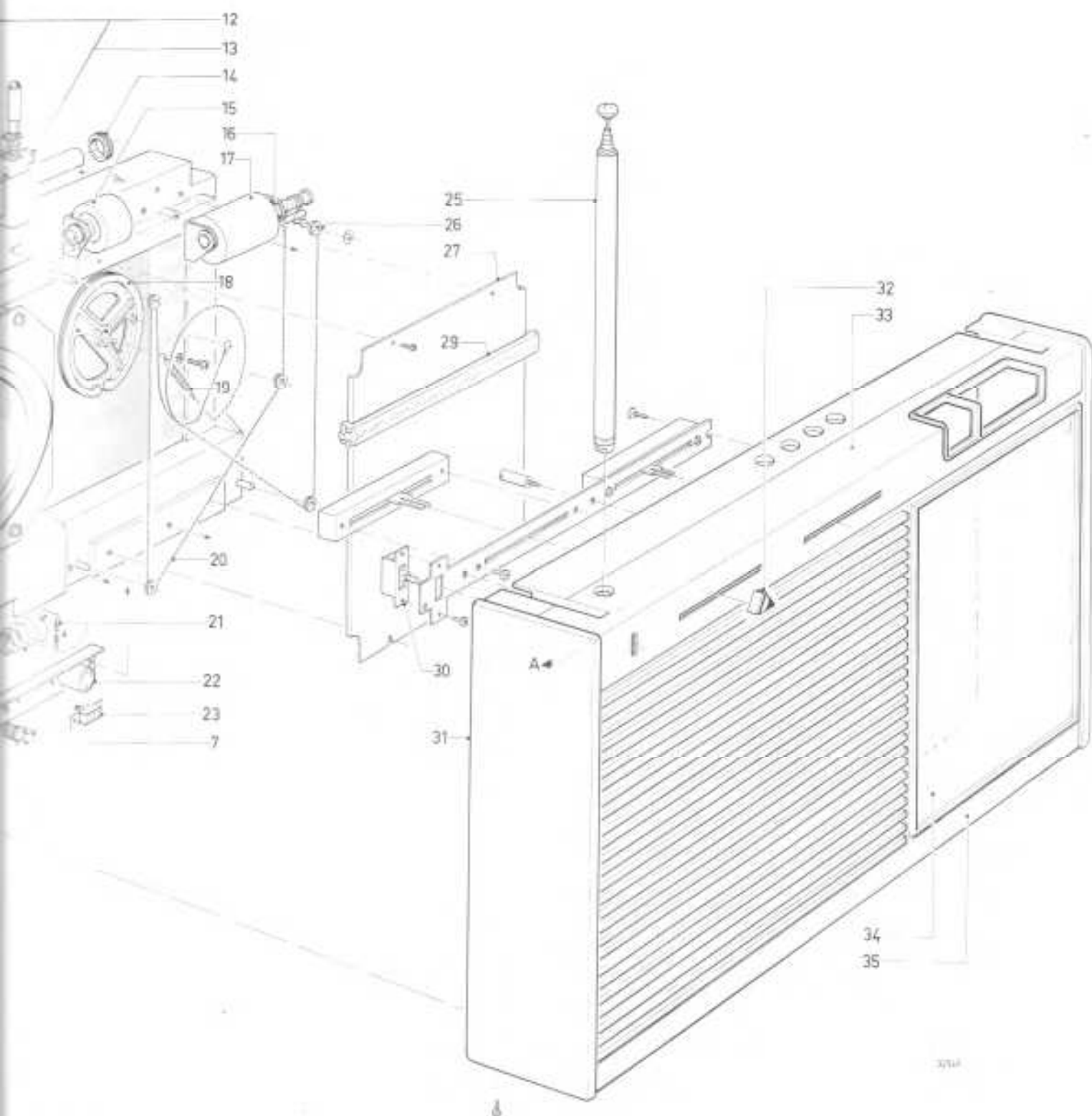


SK-H	SK-H	SK-G 520	S21	M
CT 578, CT 5, 58, 60, 48, 42	59	60	61	C
78	45	72	48, 47	C
				R
				R



-TS-			-R-		
TS1,2,4,5,7	BF254	5322 130 44117	R42	4.7 Ω , 1/4 W, $\pm 5\%$	4822 110 53045
TS3,6	BF255	4822 130 40899	R61	1 Ω , 1/4 W, $\pm 5\%$	4822 110 53027
TS8	BC408B	4822 130 40872	R46	100 k Ω , lin.	4822 105 10101
TS9,10	BC418A	4822 130 40966	R48	50 k Ω , log.	4822 105 10099
TS11,12	AC187/188 pair	4822 130 40347	R59	NTC	4822 116 30007
TS13	BC408A	5322 130 44143			
-S-			-C-		
S5		4822 156 30439	Varco		4822 125 30186
S6,7,8		4822 153 50187	C97		4822 125 60074
S9		4822 153 10237	CT5		4822 125 50045
S10		4822 156 30242	CT4,6		4822 125 50062
S11		4822 153 10388	CI,6		4822 120 33064
S12,13		4822 153 10269	C3		4822 122 30013
S14		4822 153 10232	C4,12,14,16,18,24,27,30,34,36,37,		
S15		4822 156 60079	41,49,51,59,69,75,77		4822 122 30103
S16		4822 157 30199	C5,7,26,50,61,62,73,76		4822 122 30025
S19		4822 157 50756	C9,36		4822 121 50056
S18		4822 155 60354	CI5		4822 120 33062
Ferroxcube bead		4822 526 10016	CI8,74		4822 121 50262
Loadspeaker		4822 240 20132	C39,55		4822 121 50547
S21 Mains transformer		4822 145 30133	C45		4822 121 50463
-D-			C60		4822 121 50472
D1,4,7	BA216	5322 130 30702	C52		4822 121 50414
D3	AA119	5322 130 40229	C53		4822 121 50551
D2	FV1043	4822 130 30845	C85 /30/22		4822 121 50437
D5,6	pair 2xAA119	4822 130 30312	C88 /15		4822 121 50431
D6-11	BA146	4822 130 30356	C23,33,43,70		4822 124 20355
-Div.-			C64		4822 124 20569
Fuse	315 mA	4822 255 30014	C65,67		4822 124 20373
			C71		4822 124 20573
			C68		4822 124 20409
			C72		4822 124 20406
			C80		4822 124 20417





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