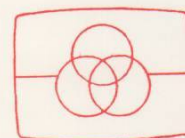


Portable Clock-radio 90AS100/00/01/15/40/45

Service
Service
Service

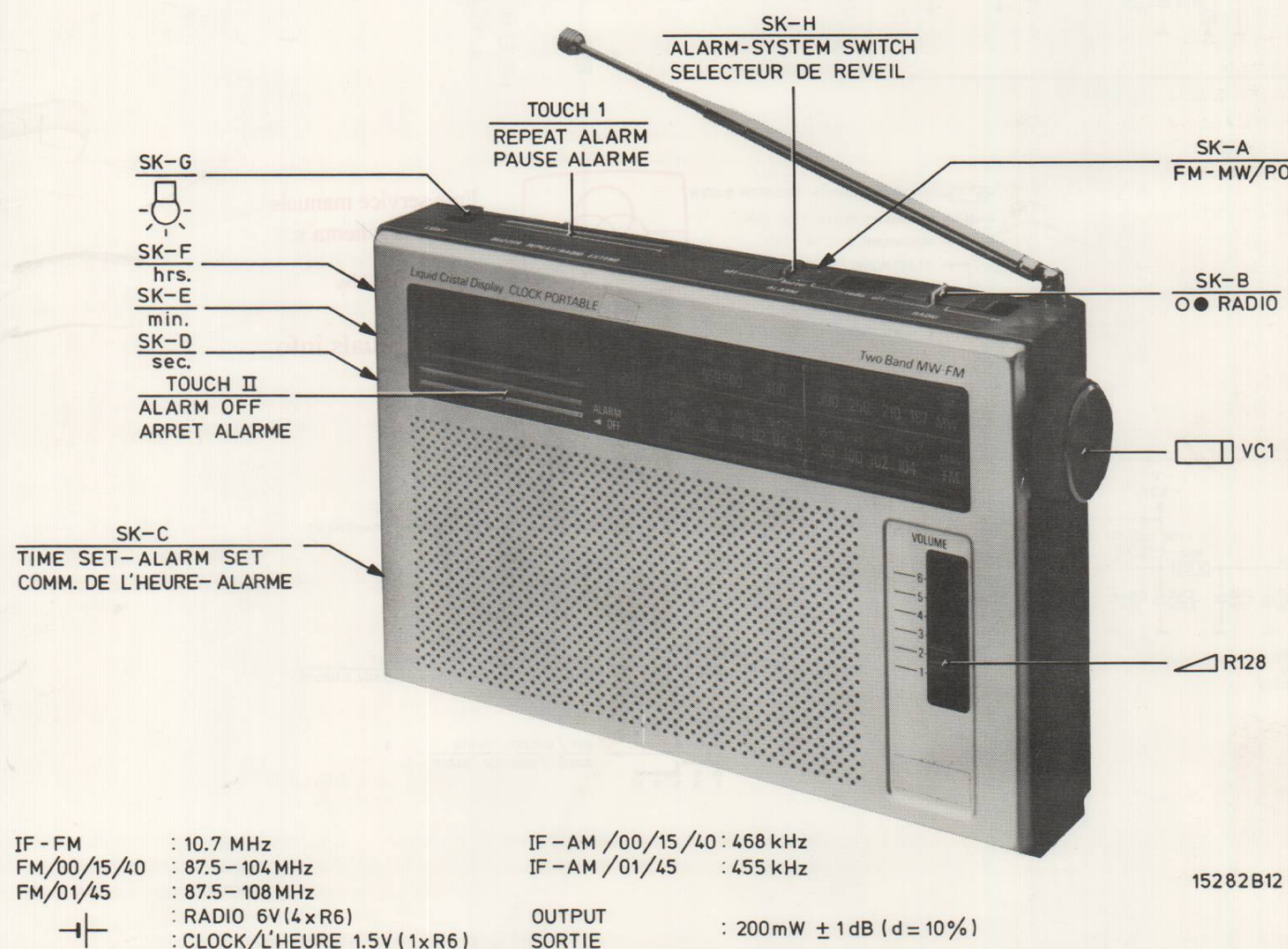


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Service Manual



Subject to modification

4822 725 12961

Printed in The Netherlands

PHILIPS

(GB)

SK-A	Wave range selector switch	FM/MW
SK-B	On/off radio switch	On/off
SK-C	Alarm/clock setting	Time set/sec set/ alarm set/run
SK-D	Switch sec. setting	Sec.
SK-E	Switch min. setting	Min.
SK-F	Switch hours setting	Hrs.
SK-G	Lamp switch	Light
SK-H	Selector switch alarm system	Off/buzzer/radio
Touch I	Repeat alarm touch	Buzzer repeat
Touch II	Alarm off touch	Alarm off

(F)

SK-A	Commut. de sélection des gammes d'onde	FM/MW
SK-B	Commut. radio marche/arrêt	On/off
SK-C	Réglage réveil/horloge	Time set/sec set/ alarm set/run
SK-D	Commut. de réglage des sec.	Sec.
SK-E	Commut. de réglage des min.	Min.
SK-F	Commut. de réglage des heures	Hrs.
SK-G	Commut. éclairage	Light
SK-H	Commut. sélecteur système de réveil	Off/buzzer/radio
Touch I	Touche d'effleurement de réveil à répétition	Buzzer repeat
Touch II	Touche d'effleurement d'arrêt de réveil	Alarm off

(I)

SK-A	Commut. selezione gamme	FM/MW
SK-B	Commut. on/off radio	On/off
SK-C	Regolazione allarme	Time set/sec set/ alarm set/run
SK-D	Commut. regolazione sec.	Sec.
SK-E	Commut. regolazione min.	Min.
SK-F	Commut. regolazione ore	Hrs.
SK-G	Commut. lampade	Light
SK-H	Commut. selezione tipo allarme	Off/buzzer/radio
Touch I	Sensore per la ripetizione allarme	Buzzer repeat
Touch II	Sensore disinserzione allarme stop	Alarm off

(SF)

SK-A	Aaltoalueen valitsin	FM/MW
SK-B	Radio-osan verkkokytkin	On/off
SK-C	Ajan/herätyksen asetus- kytkin	Time set/sec set/ alarm set/run
SK-D	Ajanasetuskytkin: sekunnit	Sec.
SK-E	Ajanasetuskytkin: minuutit	Min.
SK-F	Ajanasetuskytkin: tunnit	Hrs.
SK-G	Valokytkin	Light
SK-H	Herätyksen valintakytkin	Off/buzzer/radio
Touch I	Toistuvan herätyksen hipaisukytkin	Buzzer repeat
Touch II	Herätyksen katkaisun hipaisukytkin	Alarm off

(NL)

SK-A	Golfbereikkeuze schakelaar	FM/MW
SK-B	Radio aan/uit schakelaar	On/off
SK-C	Schakelaar voor instellen klok/alarm	Time set/sec set/ alarm set/run
SK-D	Schakelaar voor instellen sec.	Sec.
SK-E	Schakelaar voor instellen min.	Min.
SK-F	Schakelaar voor instellen uren	Hrs.
SK-G	Schakelaar voor inschakelen lamp	Light
SK-H	Schakelaar keuze alarm systeem	Off/buzzer/radio
Touch I	Tijdelijk alarm af schakelaar	Buzzer repeat
Touch II	Alarm af schakelaar	Alarm off

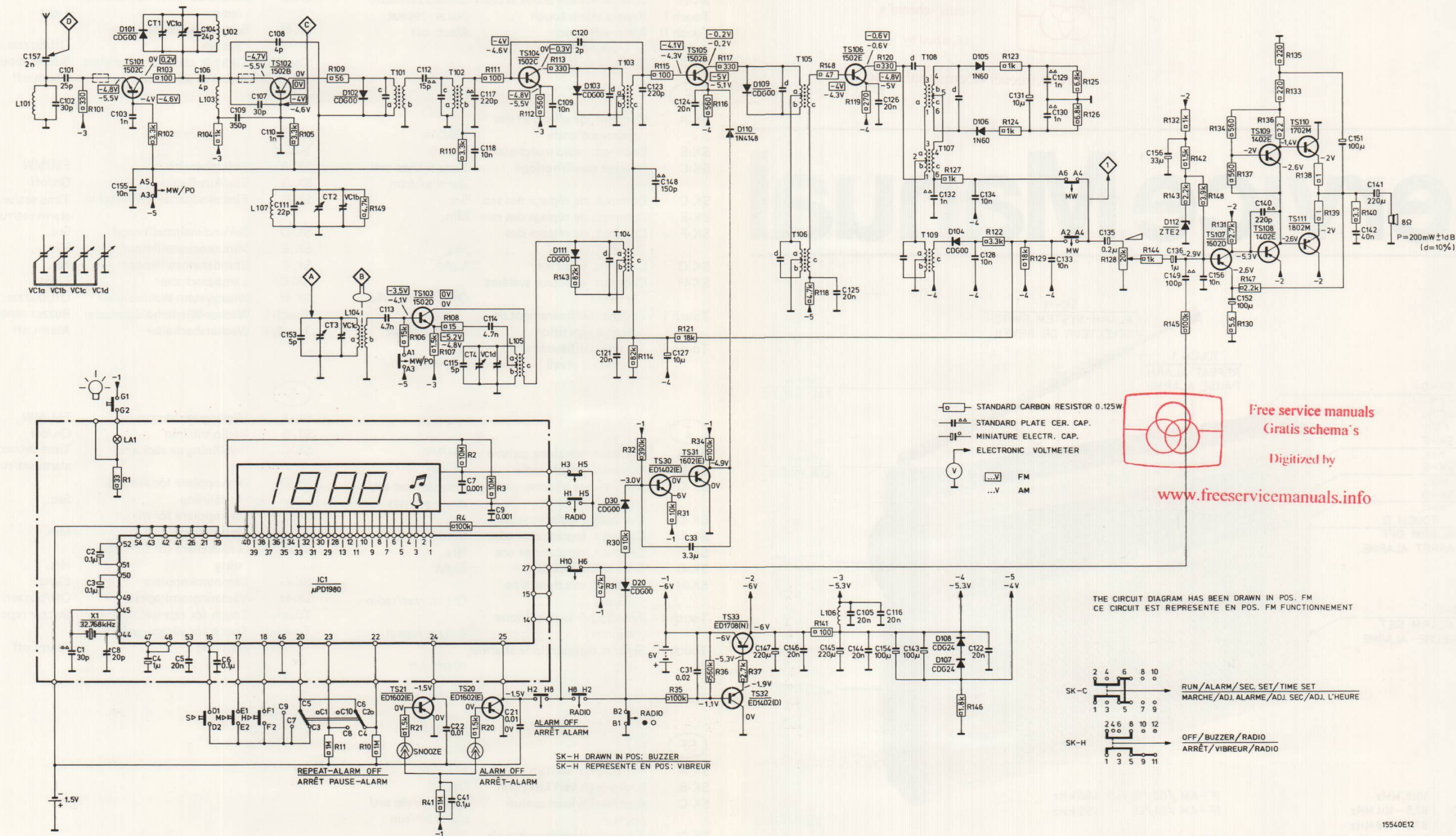
(D)

SK-A	Wellenbereich	FM/MW
SK-B	Ein/Aus-Radio	On/off
SK-C	Einstellschalter Uhr/Wecker	Time set/sec set/ alarm set/run
SK-D	Sekundeneinstellknopf	Sec.
SK-E	Minuteneinstellknopf	Min.
SK-F	Stundeneinstellknopf	Hrs.
SK-G	Lampenschalter	Light
SK-H	Wecksystem-Wahlschalter	Off/buzzer/radio
Touch I	Wecker-Wiederholungstaste	Buzzer repeat
Touch II	Weckerabschalter	Alarm off

(S)

SK-A	Våglängdsomkopplare	FM/MW
SK-B	Radio till/från	On/off
SK-C	Inställning av väckning	Time set/sec set/ alarm set/run
SK-D	Omkopplare för sekund- inställning	Sec.
SK-E	Omkopplare för minut- inställning	Min.
SK-F	Omkopplare för timinställ- ning	Hrs.
SK-G	Lampomkopplare	Light
SK-H	Väckningsomkopplare	Off/buzzer/repeat
Touch I	Touch för reprisväckning	Buzzer repeat
Touch II	Touch för väckningsfrån- koppling	Alarm off

MISC.	L-T	TS101 D101	L102 L103	L107	TS102	IC1 D102	TS103 TS21	TS20	TS104	D103 D111	D30 D20	TS30	TS31 TS105	D110 D109	TS32 TS33	TS106	D104-D108	D112	TS107-TS101	MISC.
L-T	L101					L104	T101	T102	L105	T103 T104	T105 T106	L106	T108 T107 T109							L-T
C1+160	157 101 102	103.155 1+6 8	104	106+111	153	109.10.11.149	106+108.21.41.2.110.20.4.111.3 112	113	143	114 115 30+37 121 116 117	118	148 141 119 120	127 146.125 145	105.126.144.116.154.132.143	134.128 122.131	129 130 133 135	156 136 149 156 152	140	151.142.141	1+160 C
R1+150	1	101+105															144	142 143 145 148	130+140 147	1+150 R

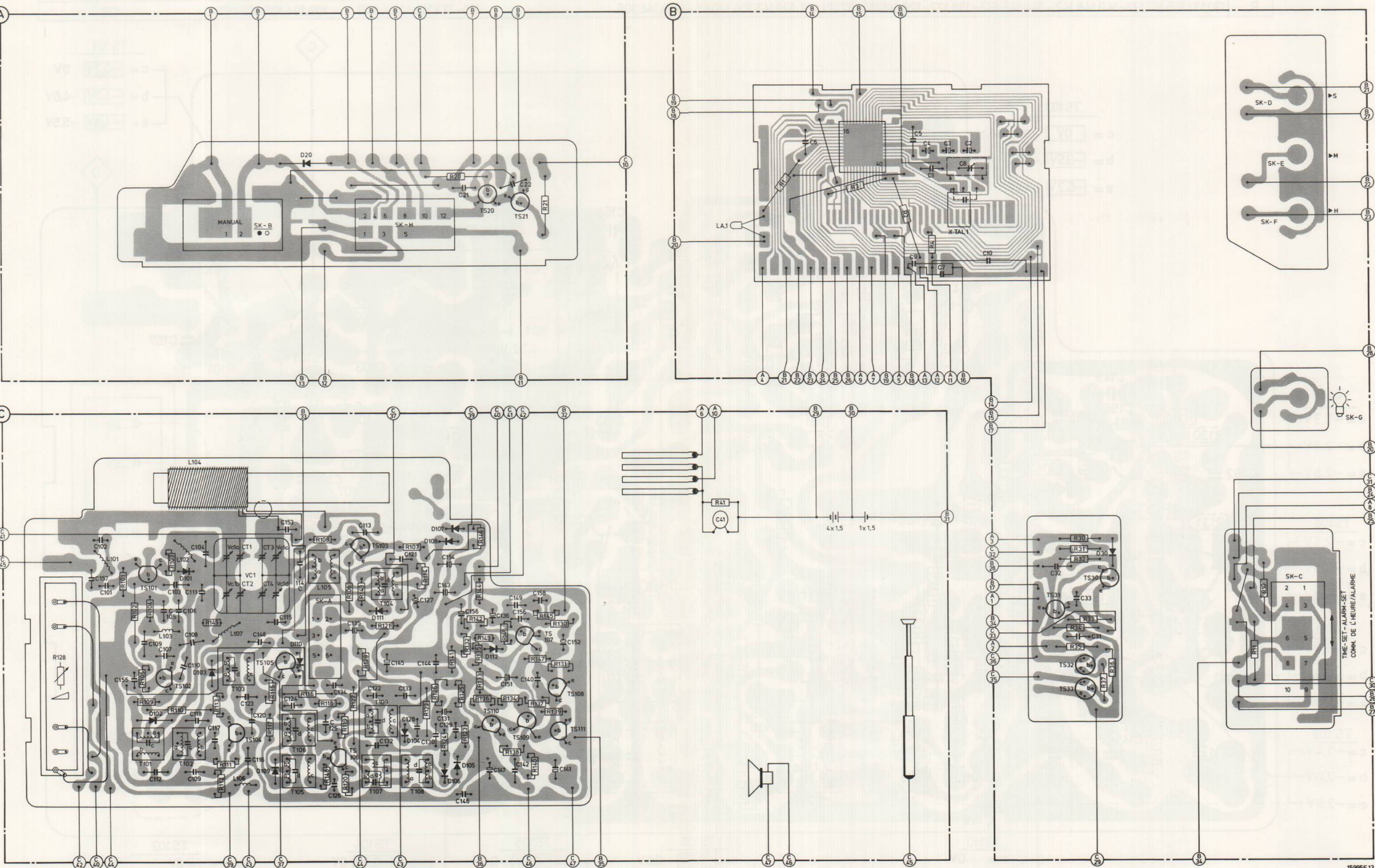


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R	R128	101...105	109...113	149	115...120	148,108,106,143,127,129,	121	107	114,122...126,20,141,132,146,144,142,143,135,133,136,148,21,134,137...140,147,145,130,131	41	1	3	2	4	30...37	11 10
C	157,101,102	155	109,103...112,118,117,123,148,Vc1a...Vc1d,CT1	CT4,114...116,120,153,124,	126,132	135,113,122,145,121,128	131,127,144,154,21,143,146,156,136,147,22,149,156,151,142,158,140,141,152	41	6	1...5	7...10	31...33	TS30...TS33	O30		
MISC.	L101,T101,T102,TS101,TS102,L102,L104	D103	T103	L106	TS105	D20	TS106,TS103	T107...T109	TS20	TS21						
	D102,L103,D101	L107,SK-B,TS104	D109,	T106,T105,L105,D110,SK-A,D111,T104,D104...D108,SKH	D112	TS107...TS111			LA1	X-TAL1					SK-D,SK-E,SK-F,SK-G,SK-C	



TS103

c = 0V 0V

b = -3.5V -4.1V

e = -5.2V -4.8V

TS101

c = -0.2V 0V

b = -4.0V -4.6V

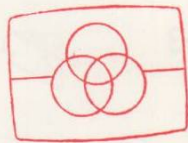
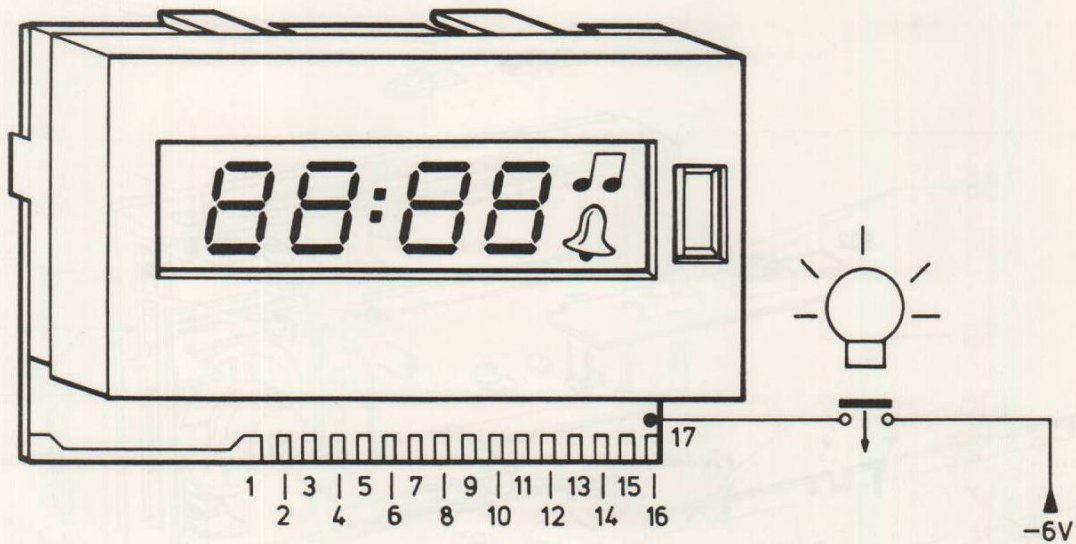
e = -4.8V -5.5V

C

D



CHECK CLOCKUNIT

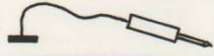
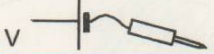


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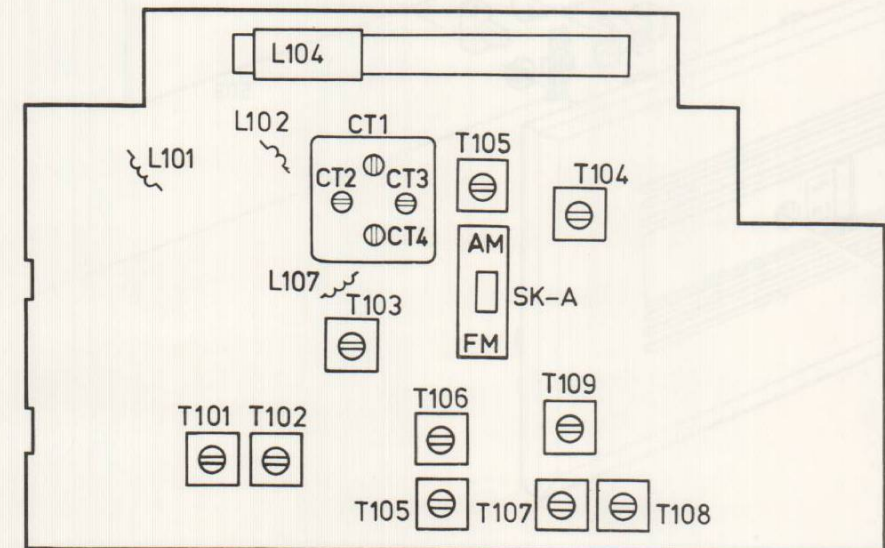
P	Symb.	* 
1	Vdd	
2	col.	connected
3		* symb. buzzer/vibreux
4		* symb. radio
5	ALM	alarm (2 kHz)
6	SC1	
7	ACS	* alarm off/arrêt alarme
8	SNZ	snooze/semi-veille
9	SEC	* sec. display
10	ALS	* alarm set/adj. alarme
11	Vss	-1.5 V
12	FH	* hrs set/adj. hrs.
13	FM	* min. set/adj. min.
14	FS	* sec. set/adj. sec.
15	SLP	
16	CNT	
17	LA1	-6 V 

Wave range	Signal to		Var.cap.	Adjust	Indication
SK-A					
MW (PO) 520-1605 kHz	[1] via 10 KpF		Min.cap.	T109	 Max.
				T106	
				T104	
			Max.cap.	L105	 Max.
			Min.cap.	CT4	
			Tune in	L104 CT3	
FM	10.7 MHz via 10 KpF		Min.cap.	T107	 Max.
				T105	
				T103	
				T102	
				T101	
	[2] /00/15/40			T108	 Min.
	/01/45				
	86.5 MHz			Max.cap. L107	
	105 MHz			Min.cap. CT2	
	90 MHz				
	103 MHz		Tune in	L102	 Max.
	106 MHz			CT1	

Repeat - Herhalen - Répéter - Wiederholen - Ricominciare - Repetera - Gentage - Gjentagelse - Toista

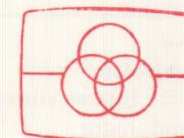
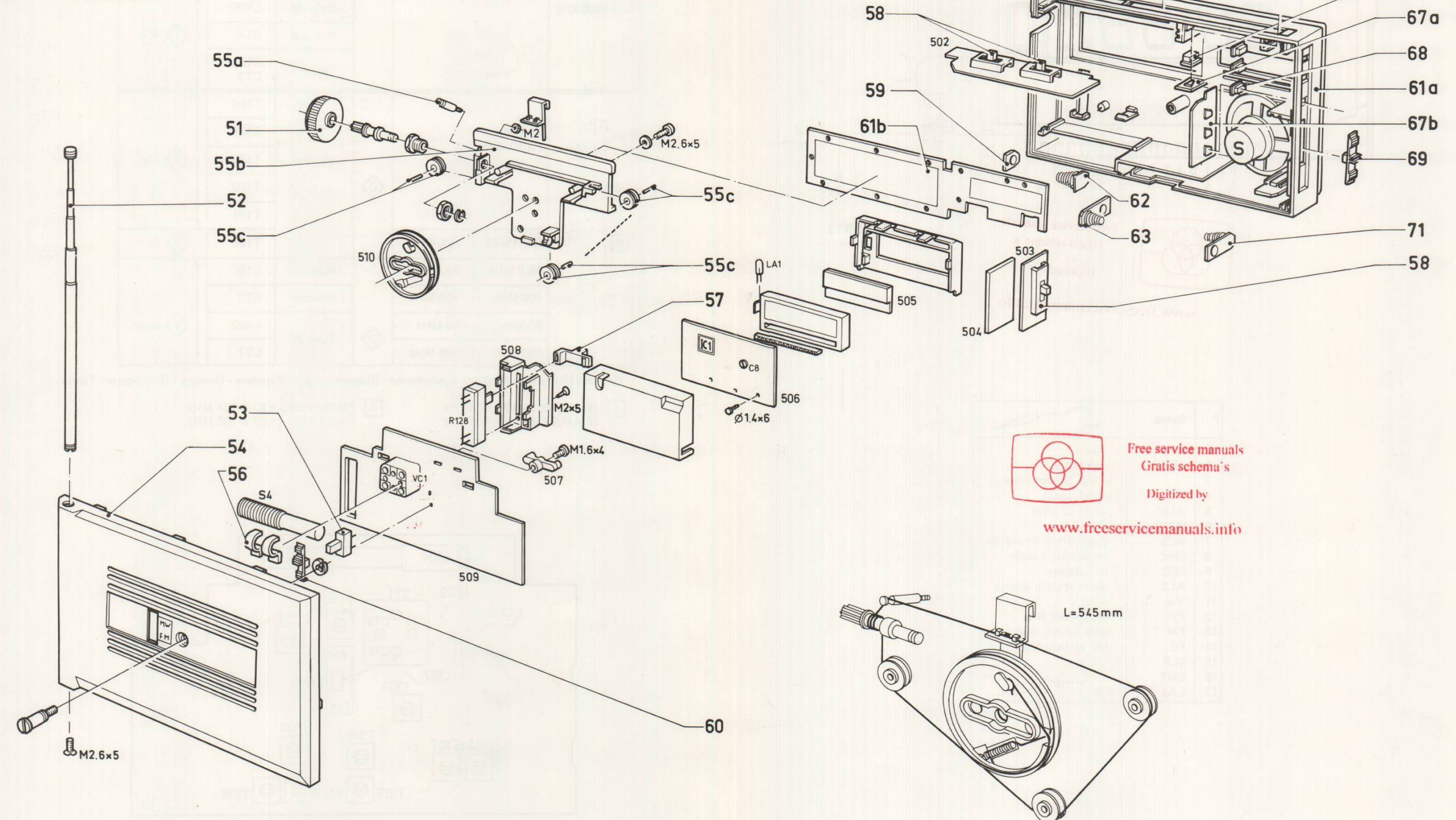
[1] IF-AM/00/15/40 = 468 kHz
IF-AM/01/45 = 455 kHz

[2] FM/00/15/40 = 87.5-104 MHz
FM/01/45 = 87.5-108 MHz



15255A12

51	4822 277 20567	61a,b	4822 423 50397
52	4822 303 30211	62	4822 290 80339
53	4822 277 20287	63	4822 290 80343
54	4822 422 20046	65	4822 411 60631
55a,b,c	4822 404 10499	66	4822 410 22088
56	4822 256 90251	67a,b	4822 256 90249
57	4822 411 60629	68	4822 410 22087
58	4822 413 40808	69	4822 411 60632
59	4822 290 80341	71	4822 290 80342
60	4822 410 22086		



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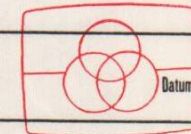
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PHILIPS NEDERLAND B.V. - EINDHOVEN
TECHNISCHE SERVICE

Ref. 151 PH

Type 90 AS 100



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PORTABLE KLOKRADIO

Onderstaande wijzigingen zijn ingevoerd:

D 111 is gewijzigd in 1N60 (4822 130 40229) ter verbetering van de MW weer-
gave. Voor verbetering van de MW gelijkloop is C 115 gewijzigd in 8 pF
(4822 122 40097) C 117 is gewijzigd in 30 pF (4822 122 40099) ter verbete-
ring van de FM-ontvangst.

Tevens is de achterkant gewijzigd in een achterdeksel met batterijklep.

Bestelnummers: deksel: 4822 423 40525

batterijklep: 4822 423 40526

U gelieve de documentatie als volgt te wijzigen:

pos. 51: 4822 413 40808

pos. 58: 4822 277 20567 (bestelnummers verwisseld).

A 79-312



PHILIPS