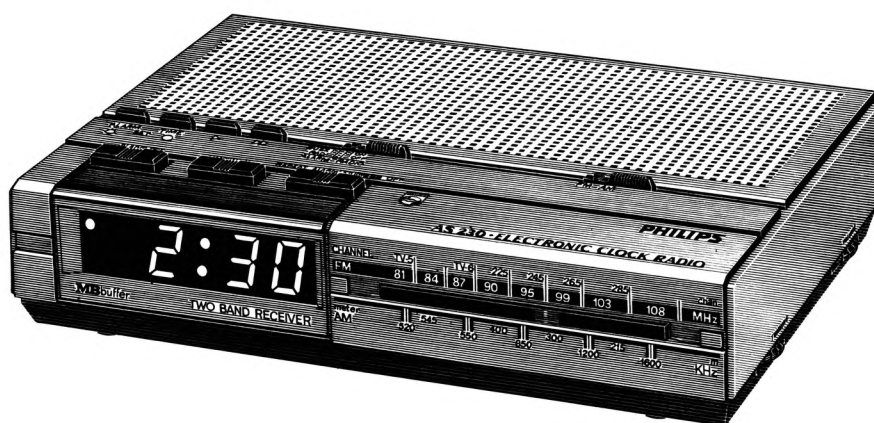


Service
Service
Service

Service Manual

Manual de Serviço
Manual de Servicio
Service Manual



OM/MW. : 520-1605kHz
FM : 81-108MHz
FI/IF AM. : 455kHz
FI/IF FM. : 10,7MHz
Alimentação/Mains : 110/220V - 50/60Hz
Bateria/Battery : 9 V dc
Potência/Power : 200mW $\pm$ 1dB (d=10%)
Relógio/Clock. : 12Hr.
Dimensões/Dimensions. : 210x45x155(mm)



Subject to modification
4806 725 17108
Printed in Brazil

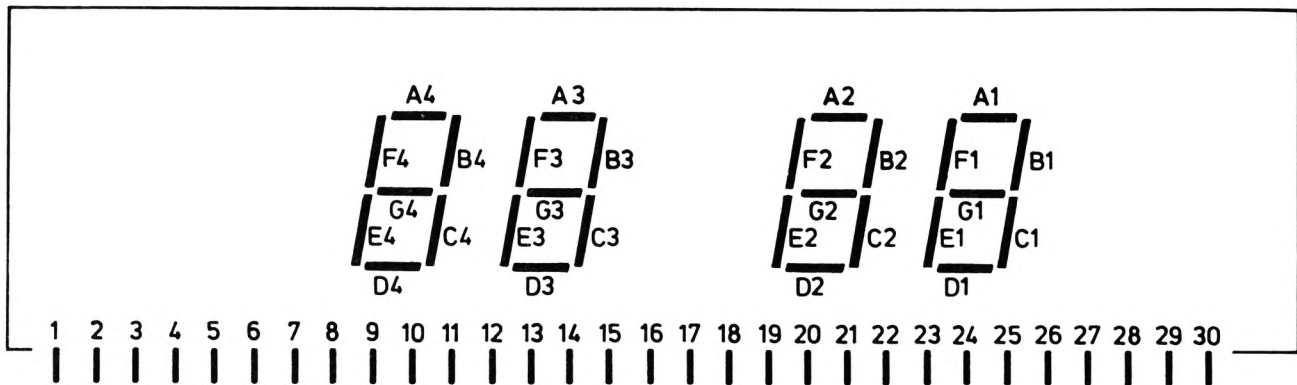
PHILIPS

10-HRS

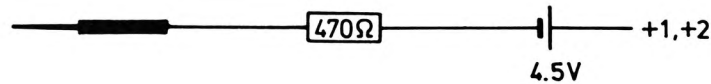
HRS

10-min

min



								A4	D4	E3	G3		D3	F3		A2	B2	C2	E1	G1	D1	F1										+1
								B4	G4	E4	C4	B3		C3	A3		F2	G2	D2	E2	B1	C1	A1									+2



B ₃ ,G ₃	1	22	B ₄ ,PM	
C ₃ ,D ₃	2	21	C ₄ ,E ₃	
A ₃ ,F ₃	3	20	Sleep out	
	4	MM5456	19	12/50 Hz,12/60 Hz
F ₂ ,A ₂	5	18	50/60 Hz input	
G ₂ ,B ₂	6	17	Alarm off, alarm on, sleep set	
D ₂ ,C ₂	7	16	Ext. R/C for alarm tone	
E ₂ ,E ₁	8	15	+1	
B ₁ ,G ₁	9	14	Time set, run, alarm set	
C ₁ ,D ₁	10	13	Fast set, run, slow set	
A ₁ ,F ₁	11	12	Alarm out	

VOLTAGES IC 009

PIN	VDC	FUNCTION
13	0	"SLOW SET"
13	10,5	"FAST SET"
13	10,5	"REPEAT ALARM"
14	0	"ALARM SET"
14	10,5	"TIME SET"
15	10,5	+ 3
17	10,5	"ALARM OFF"
17	10,5	"RÁDIO OFF"
18	—	50/60 HZ input (15Vpp)
19	—	disconnected = 60 Hz
19	—	connected = 50 Hz
20	10,5	"RÁDIO OFF" and "ALARM OFF"
20	10,5	"RÁDIO ON" and "SLUMBER OFF"

AM and FM Adjust (IF and RF)

SK ...							
	455 KHz		min. cap.	S005	 máx. ind.		
	515 KHz			máx. cap.			S004
							S003
		S002					
		1622 KHz					min. cap.
	550 KHz			S009			
1500 KHz		C001c					
	10,7 MHz			S009	 máx. ind.	Adjust for linearity and Symmetry of the "S" curve.	
	81 MHz			máx. cap.			S013
							S008
	81,5 MHz		min. cap.	S010			
	108,5 MHz			C001a			
	108 MHz					S007	
			C0016				

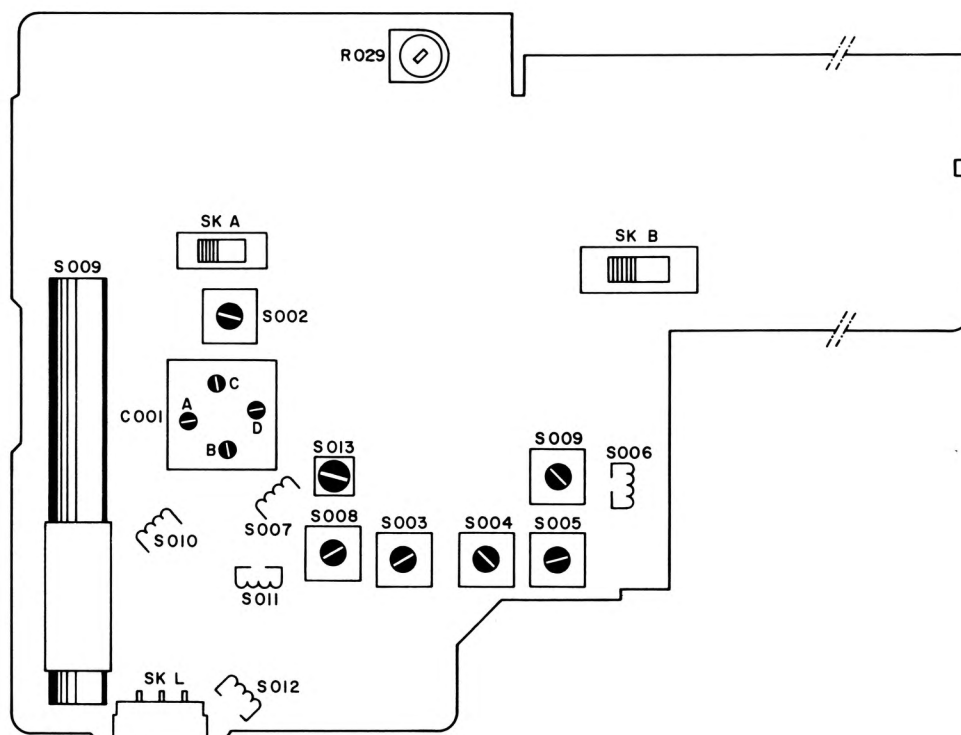
Clock Adjust

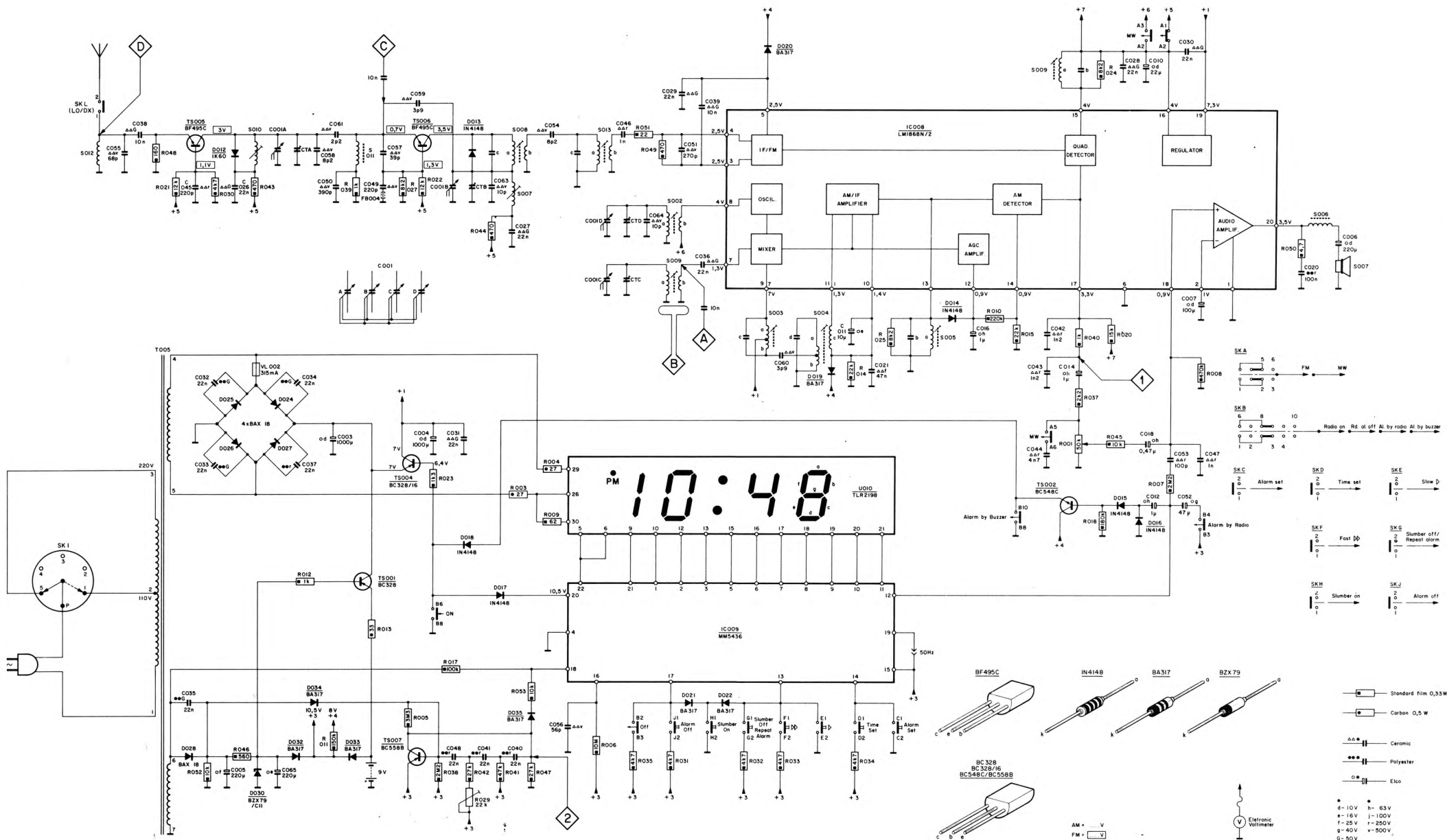
Clock frequency AC = 0V, DC = 9V				R 029		Frequency counter 50/60 Hz
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OBS: Para funcionamento em 50 Hz, conectar "jump" no pino 19 do IC 009.

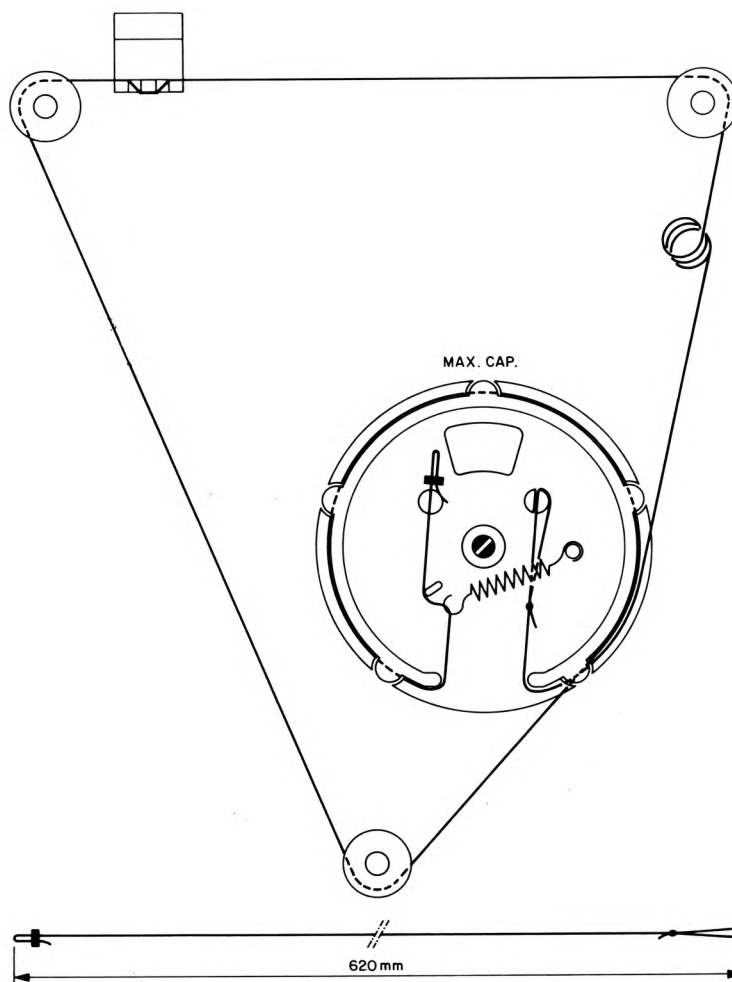
OBS: Para funcionamiento en 50 Hz, conectar "jump" en el pino 19 del IC 009.

OBS: Connect the "jump" 19 pin of the IC 009, to operation in 50 Hz.

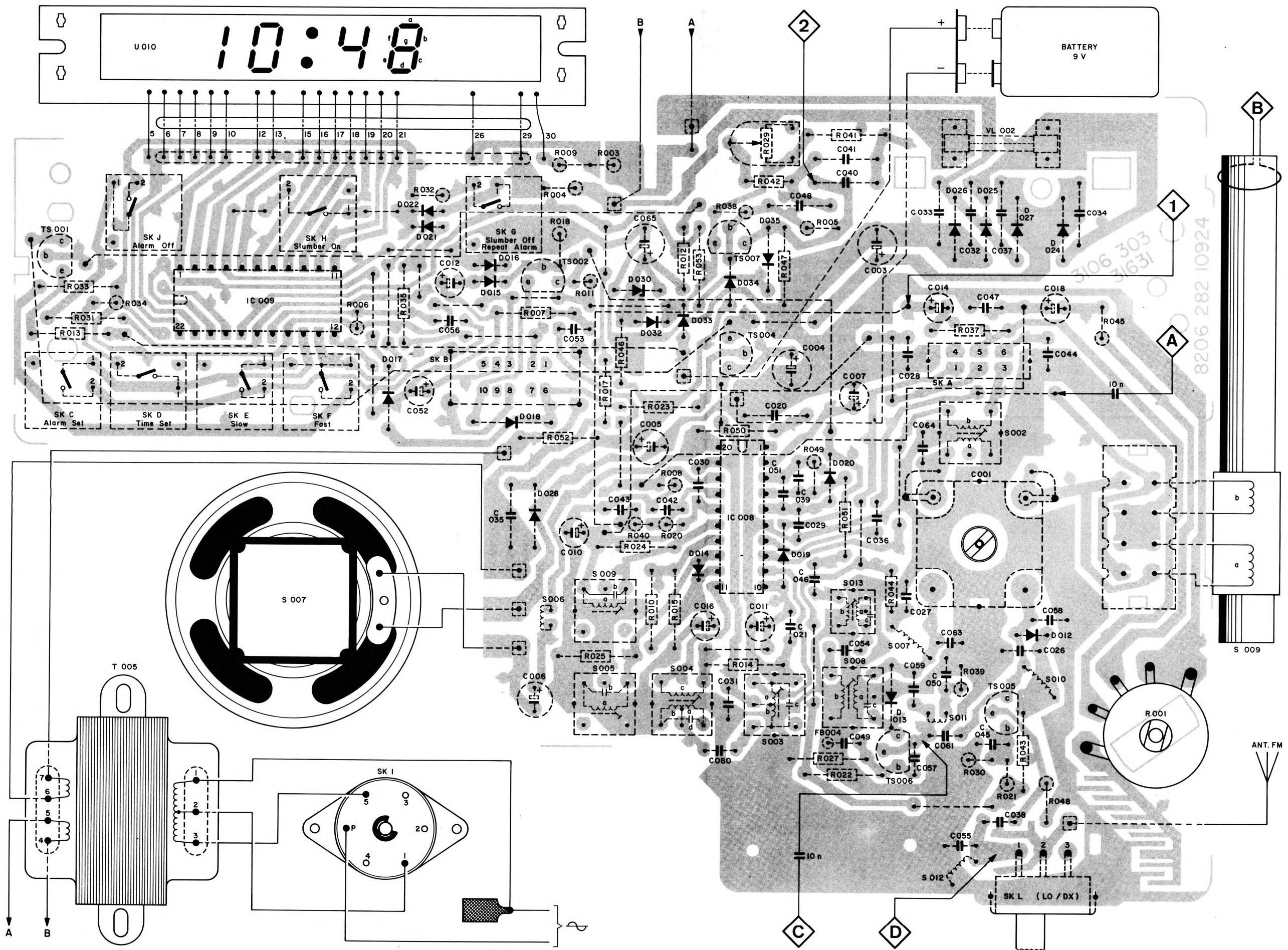




					
IC 008	LM 1868-N2	4806 209 87169	C001	Varco	4806 125 27030
IC 009	MM 5456	4806 209 87090	C003/4	Elco 1000 μ F x 40V	4806 124 27261
			C005	Elco 220 μ F x 25V	4806 124 27251
	TS 001/4	BC 328	C010	Elco 22 μ F x 10V	4806 124 27139
	TS 002	BC 548C	C011	Elco 10 μ F x 16V	4806 124 27246
	TS 005/6	BF 495C	C012/14/15	Elco 1 μ F x 63V	4806 124 27209
	TS 007	BC 558B	C018	Elco 0,47 μ F x 63V	4806 124 27241
			C021	Cer 47 nF x 25V	4806 120 17207
			C042/43	Cer 1,2 nF x 250V	4806 120 17060
D012	1K60	4806 130 37182	C046/47	Cer 1 nF x 250V	4806 120 17001
D013...018	1N4148	4806 130 37078	C059/60	Cer 3,9 nF x 250V	4806 120 17149
D019...022/032...035	BA317	4806 130 37017	C063/64	Cer 10 pF x 500V	4806 120 17048
D023/25...28	BAX18A	4806 130 37107			
D030	BZX79C11	4806 130 37180	R001	Potmeter 50 K Ω	4806 100 27018
			R029	Trimpot	4806 100 17030
			VARIOUS		
S002		4806 157 57060	VL002	Fuse 315mA	4806 253 27026
S003		4806 153 17045	SKA	Wave switch	4806 277 67011
S004		4806 157 57062	SKB	Function switch	4806 277 27050
S005		4806 156 17023	SKC...SKJ	Function switch	4806 277 27033
S007		4806 156 37029	SKL	LO/DX switch	4806 277 27034
S008		4806 153 57027	SK1	Voltage selector	4806 272 17031
S009		4806 157 57061	T006	Mains transformer	4806 145 37036
S010		4806 157 57066	S007	Loudspeaker	4806 240 37005
S011		4806 153 17044	S009	AM aerial coil	4806 526 17028
S012		4806 157 57059	U010	Display LED TLR 2198	4806 130 37181
S013		4806 153 57029			



TS-S :	TS001	-	007	-	006-TS002-009-005	-	004	-	TS007-TS004-003	-	013-008-007-TS006-012-011	-	TS005-002-010	-	009											
D :				017 - 021-022	-	015-016-018-028	-	030-032	-	014-033-034-035	-	019	-	020	-	013	-	026-025-027-024-012	-							
C :				052	-		-	010	-	005	-	030-031	-	048-029	-	041-049	-	059-028-050-014-032-047-037	-	026-034						
C :						056	-	006	-	043	-	042	-	060	-	020-039-004	-	007-054-036-064-057-061	-	045	-	018-044				
C :						012	-	035	-	053	-	065	-	016	-	011-051-046-021	-	040-003	-	027-033-063-055-001	-	038	-	058		
R :		033	-	034	-		-	035	-	052-004-011-003-046-040-023-020-015	-	053	-	050	-	029-047	-	005-022-041	-		-	037-030	-	043	-	045
R :		013-031	-		-		-	006	-	032	-		-	007-018-009-025-017-024-010-008-012	-	038-014-042	-	049-027-051	-	044	-	039-021	-	048	-	001



P

Caixa Superior
Caixa Inferior
Tampa da Bateria
Ponteiro
Mostrador do Display

Conector para Bateria
Grampo (fix. falante)
Pé
Botão de Volume
Botão de Sintonia

Botão para Chave AM/FM
Botão para Chave de Funções
Teclas de Funções do Relógio
Eixo para Polia
Polia (Branca)

Polia (Preta)
Tambor de Sintonia
Mola de Tração
Eixo de Sintonia
Cabo de Rede

E

Caja Superior
Caja Inferior
Tapa de la Bateria
Aguja del Dial
Placa Ornamental del Display

Enchufe para Bateria
Traba (fij. alta voz)
Pata
Botón de Volumen
Botón de Sintonia

Botón para Llave AM/FM
Botón para Llave de Funciones
Teclas de Funciones del Reloj
Eje para Polea
Polea (Blanca)

Polea (Negra)
Tambor de Sintonia
Resorte de Tracción
Eje de Sintonia
Cable de Red

GB

Top Cabinet 4806 426 97028
Lower Cabinet 4806 426 97029
Battery Cover 4806 426 67004
Pointer 4806 450 87086
Ornamental Plate for Display 4806 450 67031

Battery Connector 4806 290 87061
Clamp (fix. loudspeaker) 4806 492 67180
Foot 4806 462 77066
Volume Button 4806 413 47064
Tuning Button 4806 413 47065

Button for AM/FM Switch 4806 411 67100
Button for Functions Switch 4806 411 67101
Clock Functions Key 4806 411 67099
Pulley Spindle 4806 535 77045
Pulley (White) 4806 528 87075

Pulley (Black) 4806 528 87073
Tuning Drum 4806 528 87089
Traction Spring 4806 492 67237
Tuning Spindle 4806 535 77046
Mains Flex 4806 321 17018