

General Description: A portable mains or battery-operated transistor radio covering Long, Medium, and V.H.F. wavebands. Alternative output circuit may be fitted as shown in the circuit diagram. A socket is provided for the connection of an earphone.

Mains Supplies: 110/220 V, 50 Hz.

Fuse: 250 mA (rectifier).

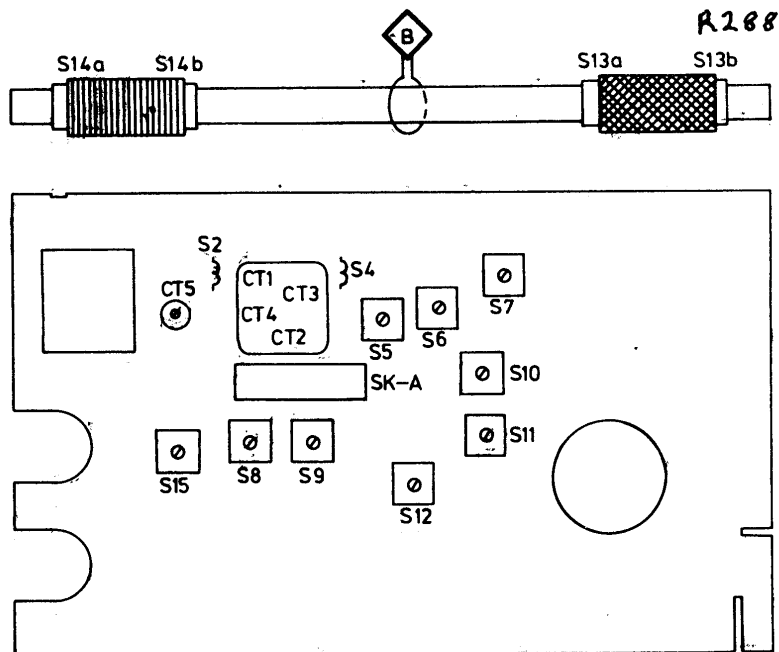
Batteries: 6 V (4×1.5 V).

Wavebands: L.W. 150–255 kHz; M.W. 520–1,605 kHz; F.M. 87.5–104 MHz.

Alternative Components:

	<i>With SV on Type No. label</i>	<i>With NR on Type No. label</i>
R47	68 Ω	180 Ω
R49	—	thermistor
R50	—	15 k
R37	50 k	20 k
C7	330 p	500 p
C48	10 n	5 n
C37	5 n	10 n
C38	5 n	10 n
C53	—	3 p
C51	40 n	—
S18	0.7 μ	—

Alignment (see Fig. R288)



(R288) ALIGNMENT ADJUSTMENTS—MODEL 90RL301

Alignment Table

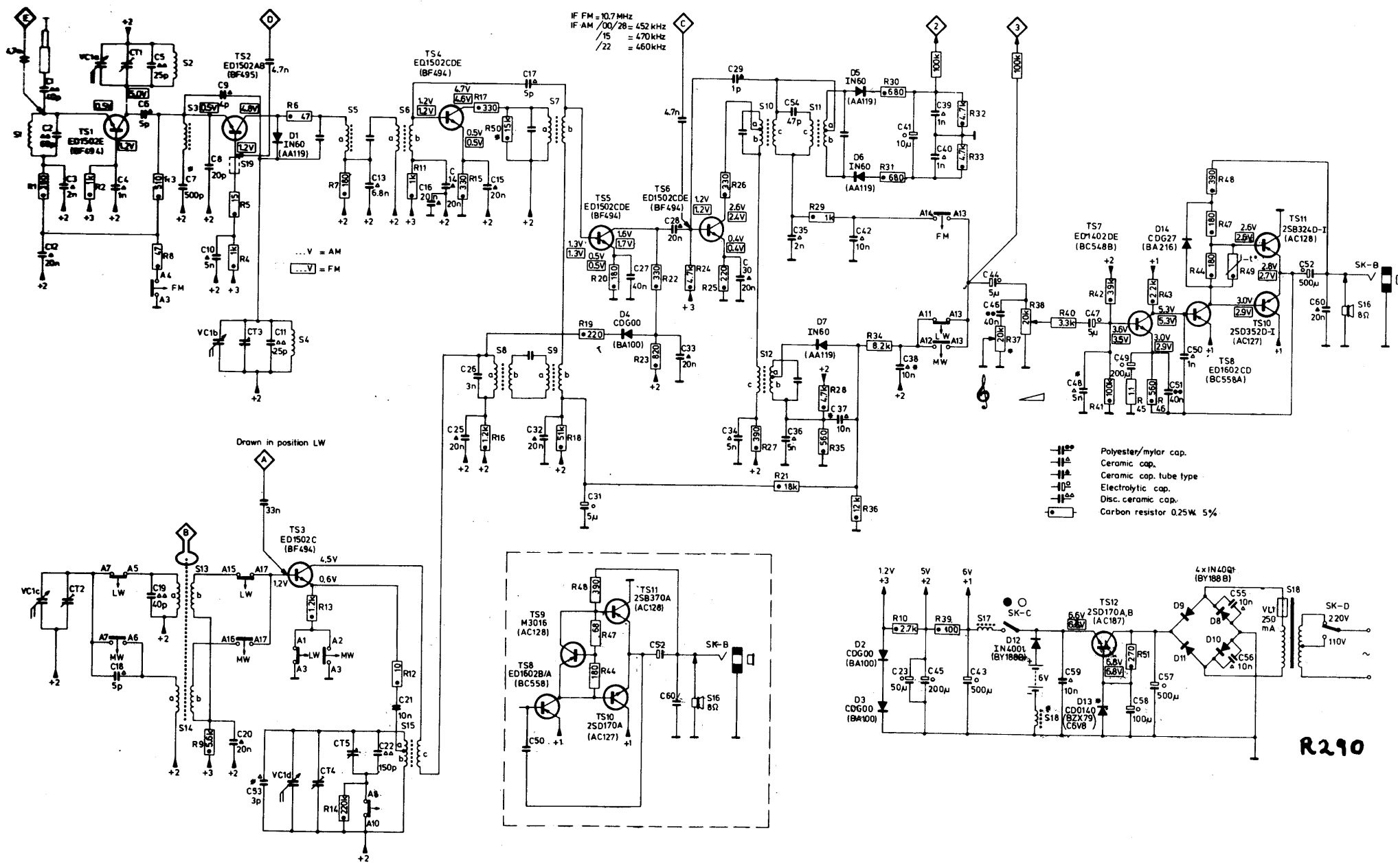
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SK- Wave range	Signal to		Tuning	Adjust	Indication	
MW (520-1605 kHz)	452 kHz /00 460 kHz /22 470 kHz /15 $\Delta F = 20$ kHz (50 Hz) via 33 nF	\diamond	Min. Cap.	S12, S9, S8		\diamond Vmax.
MW (520-1605 kHz)	515 kHz	\diamond	Max. cap.	S15		\diamond Vmax.
	1635 kHz		Min. cap.	CT4		
	600 kHz		Tune in	S14a,b		
	1400 kHz			CT2		
LW (150-255 kHz)	147 kHz	\diamond	Max. cap.	CT5		\diamond Vmax.
	200 kHz		Tune in	S13a,b		
FM (87.5-104 MHz)	I 10.7 MHz $\Delta F = 200$ kHz 50 Hz via 5 nF	\diamond	Min. cap.	S10	\diamond	
		\diamond		S7, S6, S5		
		\diamond		S11		
FM (87.5-104 MHz)	86.5 MHz	\diamond	Max. cap.	S4		\diamond Vmax.
	105 MHz		Min. cap.	CT3		
	89 MHz		Tune in	S2		
	103 MHz			CT1		

Indication: 1. Disconnect a connection of C4I. Adjust for maximum height and symmetry.

2. Restore the original connection. Adjust for maximum slope and symmetry of the 'S'-curve.

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(R290) CIRCUIT DIAGRAM—MODEL 90RL301.

PHILIPS

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