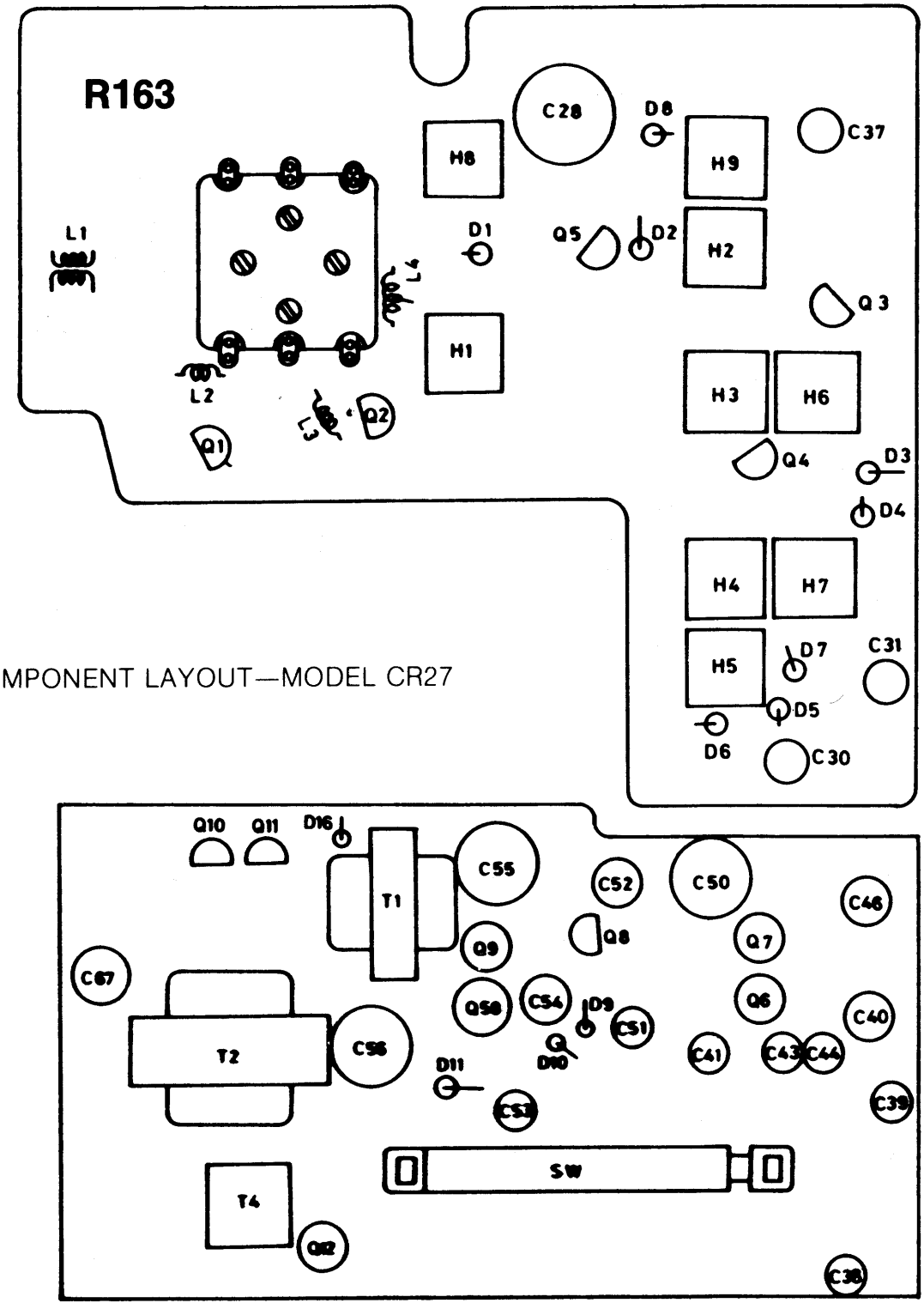
ALBA Model CR27

General Description: A mains or battery-operated A.M./F.M. radio with cassette tape-recorder. A built-in microphone is fitted and sockets are provided for auxiliary inputs and earphone.

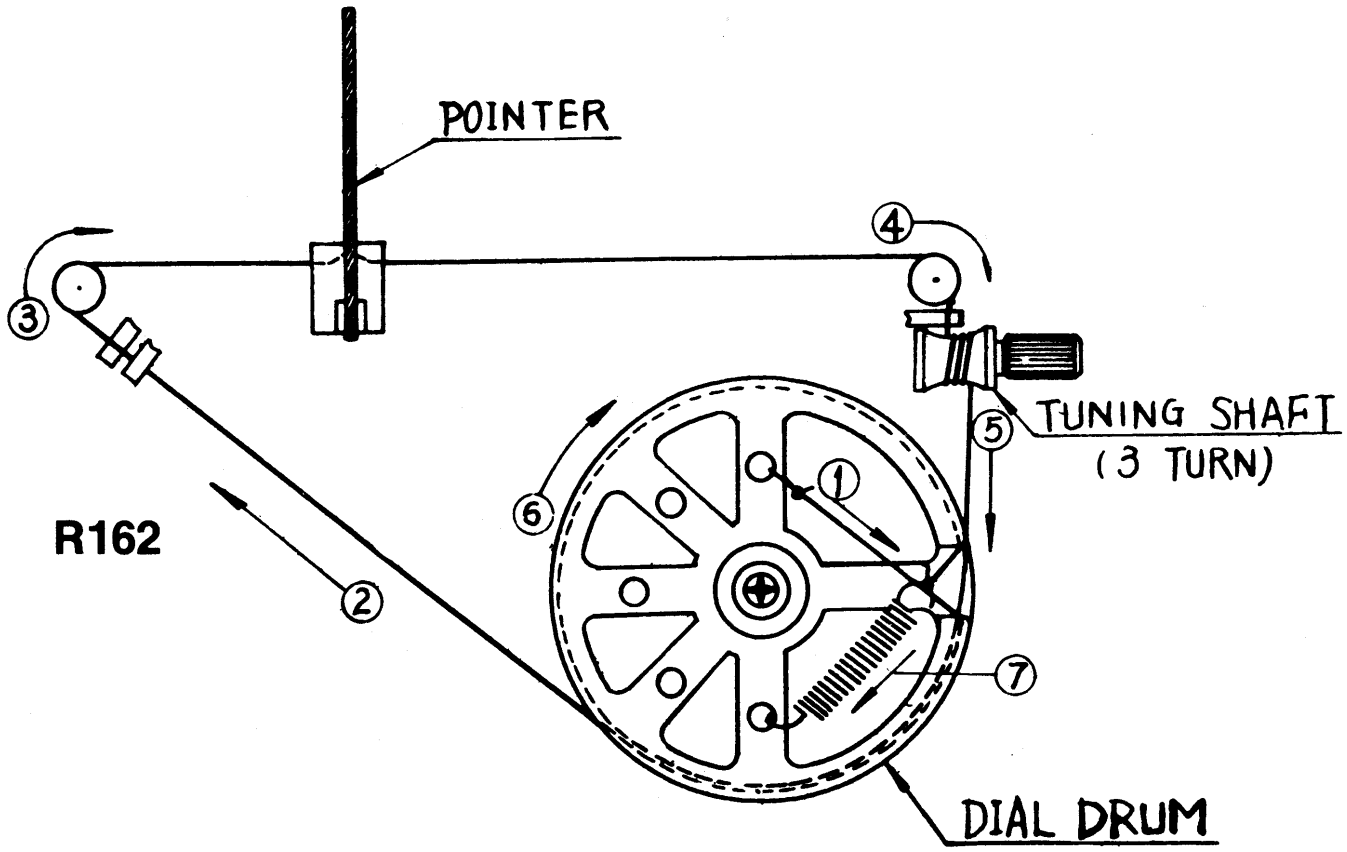
Mains Supply: 240 volts, 50Hz.

Batteries: 6 volts (4×HP11).

Wavebands: M.W. 505-1650kHz; F.M. 87.5-110MHz.



(R163) COMPONENT LAYOUT—MODEL CR27



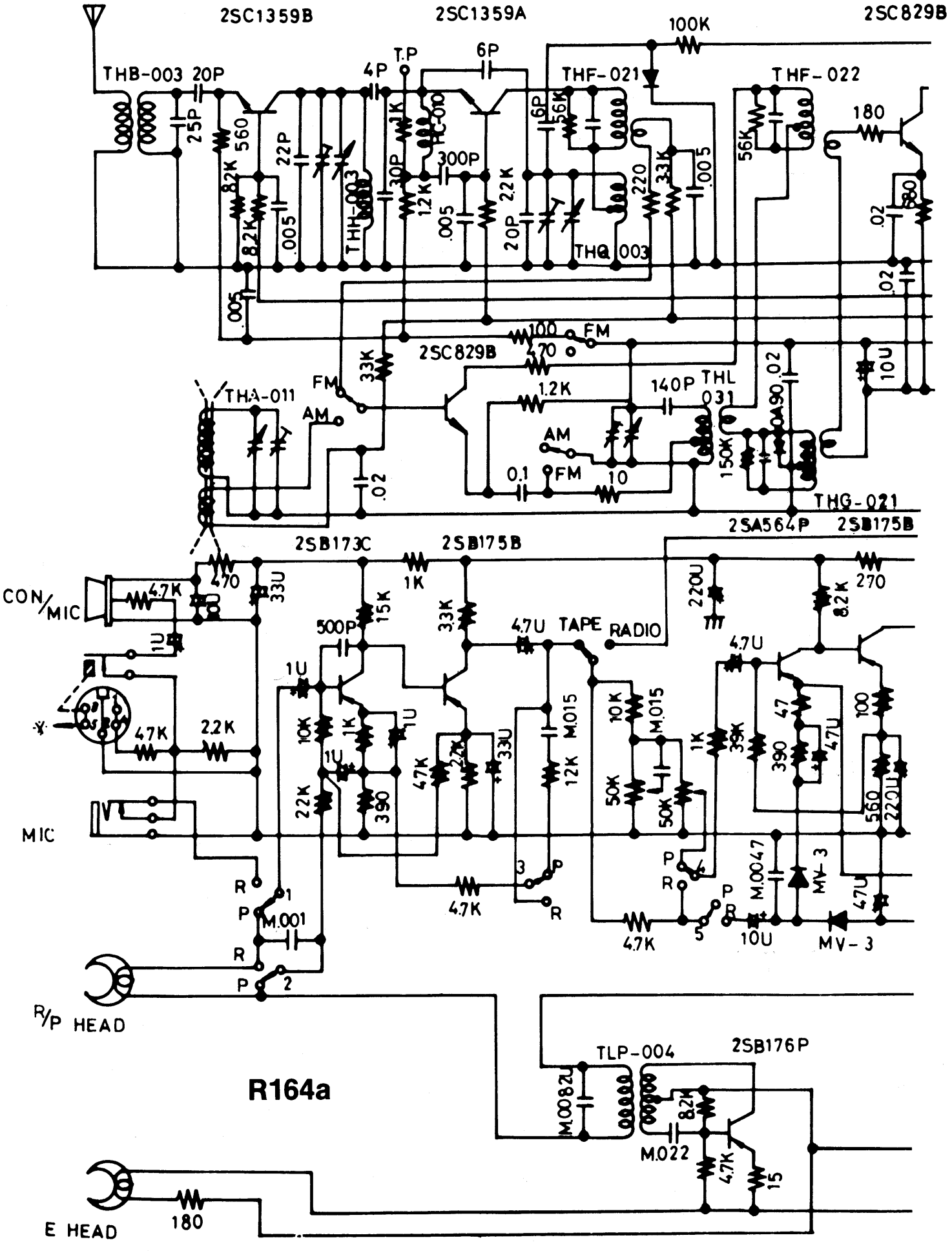
(R162) DRIVE CORD—MODEL CR27

Alignment

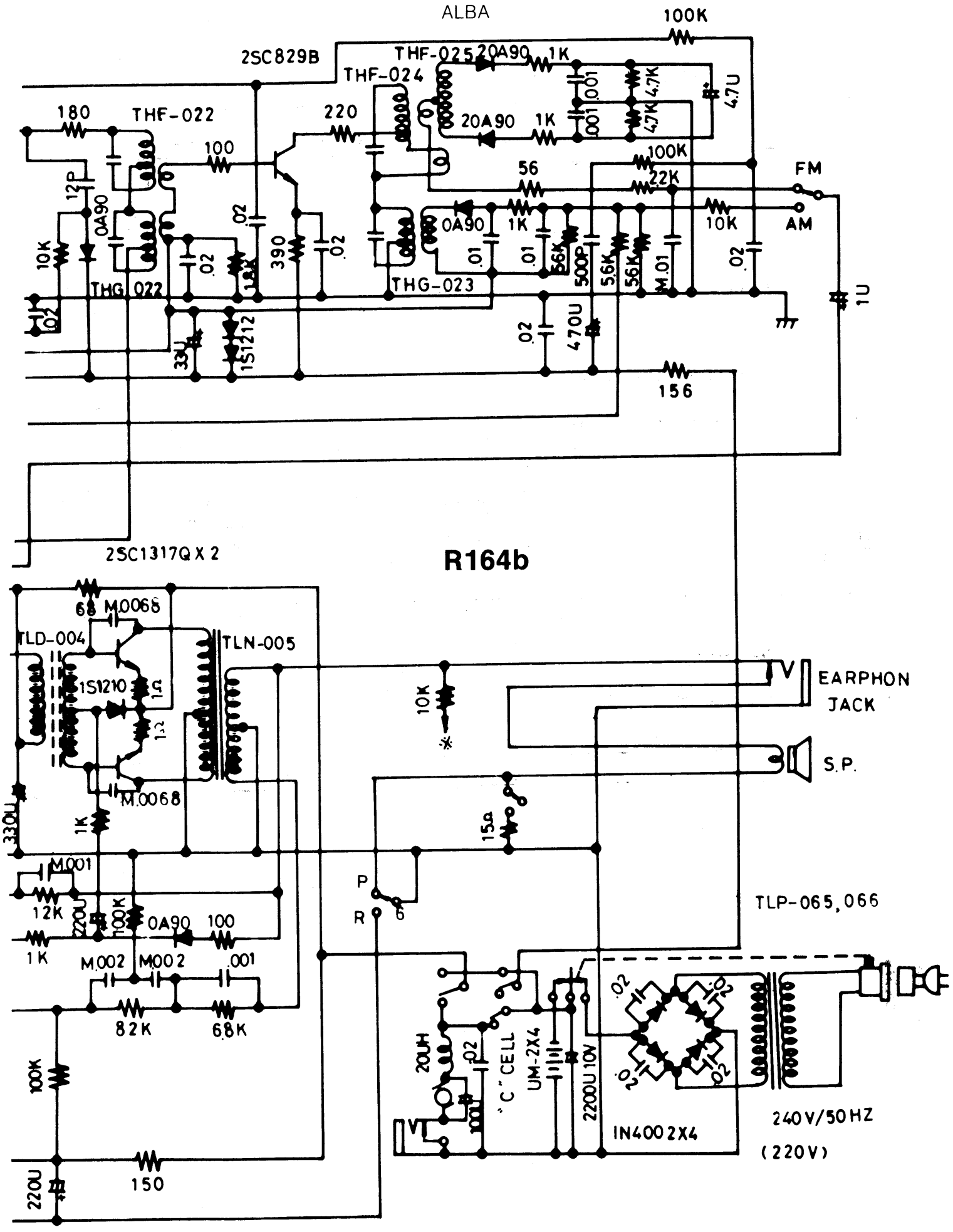
A.M. Section:

Control Setting A.M./F.M. Selector Switch . . . . . A.M. Volume . . . . . Max.

Circuit Alignment	*Instrument connection*	*Step*	*Gen. freq.*	*Dial setting*	*Adjustment*
	A.M. Signal Generator Radiated Signal	1	470kHz (Mod.)	Tuning gang fully open	A.M. I.F.T. H6, H7 & H9 Adjust for max. output
I.F.	**Output Meter (V.T.V.M.)** Connect across speaker voice coil.	2			Repeat until no further improvement can be made.
		3	600kHz (Mod.)	Tuning gang fully open	H8: (A.M. Osc. coil) Adjust for max. output
Oscillator		4	1500kHz (Mod.)	Tuning gang fully open	A.M. Osc. trimmer Adjust for max. output
		5	—	—	Repeat steps 3 & 4
		6	600kHz (Mod.)	Tune to Signal	L5 (A.M. Ant. coil) Adjust coil on ferrite core for max. output
R.F. Tracking		7	1400kHz (Mod.)	Tune to Signal	A.M. Antenna trimmer Adjust for max. output
		8	—	—	Repeat steps 6 & 7



(R164a) CIRCUIT DIAGRAM—MODEL CR27 *(PART)*



(R164b) CIRCUIT DIAGRAM—MODEL CR27 *(CONTINUED)*

F.M. Section:

Control Setting A.M./F.M. Selector Switch . . . . . F.M. Volume . . . . . Max.

Circuit Alignment	*Instrument connection*	*Step*	*Gen. freq.*	*Dial setting*	*Adjustment*
	F.M. I.F. Sweep Generator Connect across test point TP—1	1	10.7MHz (Mod.)	Tuning gang fully open	F.M. I.F.T. H1, H2, H3 & H4 Adjust for max. symmetrical response
I.F.	**Oscilloscope** Connect across test point TP—2	2	—	—	Repeat step 1
Ratio det.	**Oscilloscope** Connect across TP—3 and ground	3	10.7MHz (Mod.)	Tuning gang fully open	F.M. I.F.T. H5 Adjust for symmetrical 'S' curve entered 10.7MHz
	F.M. Signal Generator Connect L1	4	86.5MHz (Mod.)	Tuning gang fully closed	L4 (F.M. Osc. coil) Adjust for max. output
Oscillator	**Output meter (V.T.V.M.)** Connect across speaker voice coil	5	110MHz (Mod.)	Tuning gang fully open	F.M. Osc. trimmer Adjust for max. output
		6	—	—	Repeat step 4 & 5
		7	90MHz (Mod.)	Tune to signal	L2 (F.M. R.F. coil) Adjust for max. output
R.F. Tracking		8	106MHz (Mod.)	Tune to signal	F.M. R.F. trimmer Adjust for max. output
		9	—	—	Repeat steps 7 & 8

Tape Section:

Control Setting Tape/Radio Selector Switch Tape Volume . . . Min. Tape Condition Recording

Circuit alignment	*Instrument connection*	*Adjustment*
Oscillator	Digital counter	Adjust T4 for frequency 40KHz