

**ALBA****Models CR30, CR32**

**General Description:** These models are fully transistorised battery or mains-operated cassette tape recorders with A.M./F.M. radio. A built-in microphone is fitted and sockets are provided for the connection of auxiliaries.

**Mains Supplies:** 220-240V, 50Hz.

**Batteries:** 6V. (4 × 1.5V).

**Wavebands:** L.W. 145-285kHz; M.W. 525-1,650kHz; F.M. 88-108MHz.

**Record Bias:** A.C.

**Erase Bias:** D.C.

**Alignment**

**Instruments Required:** Output Meter (V.T.V.M.); I.F. Sweep Generator (A.M./F.M.); Standard Signal Generator (A.M./F.M.); Audio Frequency Generator; Distortion Meter; Oscilloscope.

**L.W., Control Setting:** L.W.; Volume; Max.

<i>Circuit alignment</i>	<i>Instrument connection</i>	<i>Step</i>	<i>Gen. freq</i>	<i>Dial setting</i>	<i>Adjustment</i>
I.F.	A.M.Signal generator Radiated signal Output Meter (V.T.V.M.)	1.	465 KHz (Mod.)	Tuning gang fully open	A.F.M. 1 H8, H4, H7 Adjust for max. out- put.
		2.			Repeat until no further improvements can be made.
		3.	140KHz (Mod)	Tuning gang fully closed	L8 (L.W. Osc-coil) Adjust for max. out- put.
Oscillator		4.	300KHz (Mod.)	Tuning gang fully open	CT <sub>1</sub> (L.W. OSC Trimmer) Adjust for max. out- put.
		5.	—	—	Repeat steps 3 and 4
		6.	175KHz (Mod)	Tune to Signal	L6 (L.W. Ant. coil) Adjust coil on ferrite core. for max. output
R.F.		7.	250KHz (Mod)	Tune to Signal	CT <sub>2</sub> (L.W. Ant. trimmer) Adjust for max. out- put.
		8.	—	—	Repeat steps 6 and 7.

**M.W. Control Setting: M.W.; Volume; Max.**

<i>Circuit alignment</i>	<i>Instrument connection</i>	<i>Step</i>	<i>Gen. freq.</i>	<i>Dial Setting</i>	<i>Adjustment</i>
I.F.	A.M. Signal generator Radiated Signal Output Meter (V.T.V.M) Connect across speaker voice coil.	1.	465 KHz (Mod.)	Tuning gang fully open	A.M.I.F.T. H3 H4, & H7 Adjust for max. output. Repeat Until no further improvement can be made.
	Oscillator		2.		
		3.	525 KHz (Mod.)	Tuning gang fully closed	L7 (A.M. OSC Coil) Adjust for max. output.
		4.	1,650 KHz (Mod.)	Tuning gang fully open	A.M. OSC Trimmer Adjust for max. output.
		5.	—	—	Repeat steps 3 & 4
R.F. tracking		6.	600 KHz (Mod.)	Tune to Signal	L6 (A.M. Ant. Coil) Adjust Coil on ferrite core for max. output.
		7.	1,400 KHz (Mod.)	Tune to Signal	A.M. Antenna trimmer Adjust for max. Output
		8.	—	—	Repeat steps 6 & 7

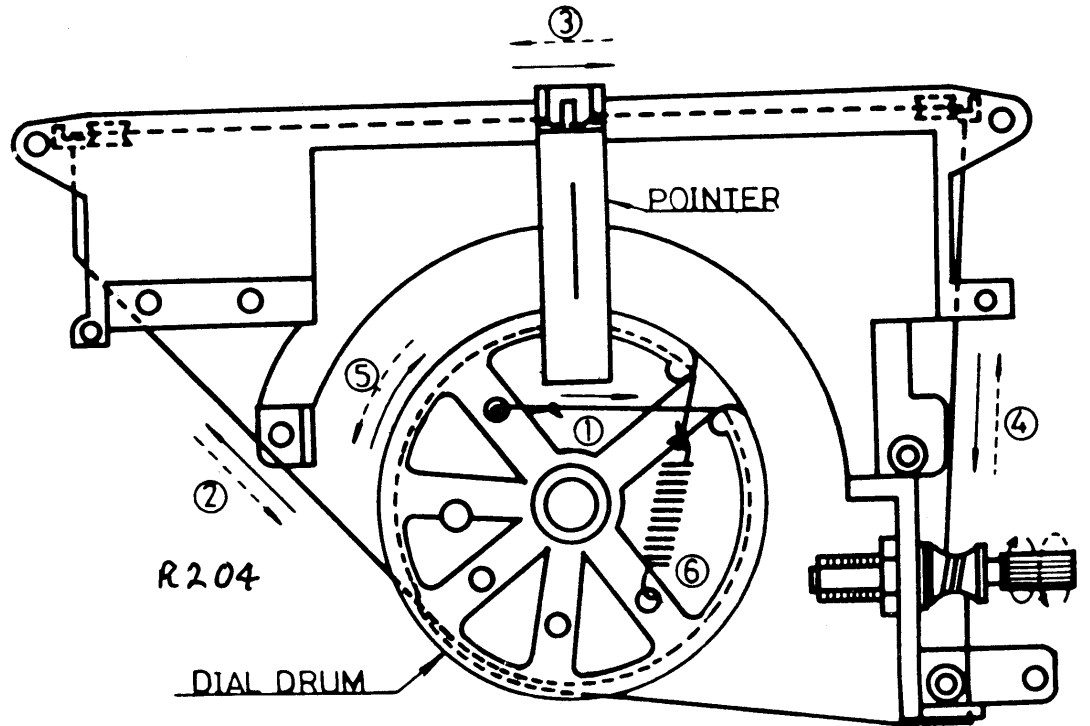
**F.M. Control Setting: L.W./M.W./F.M.; F.M.; Volume; Max.**

<i>Circuit alignment</i>	<i>Instrument connection</i>	<i>Step</i>	<i>Gen. freq.</i>	<i>Dial setting</i>	<i>Adjustment</i>
I.F.	F.M. I.F. Sweep Gen- erator Connect across test point TP - 1	1.	10·7 MHz (Mod.)	Tuning gang fully open	F.M. I.F.T. H.1, H2, H3, and H5. Adjust for max. symmet- rical response
	Oscilloscope Connect across test point TP - 2				
Ratio Det.	Oscilloscope Connect across TP - 3 and ground	2.	—		Repeat step 1
		3.	10·7 MHz (Mod.)	Tuning gang fully open	F.M. I.F.T. H6 Adjust for symmetrical S curve entered 10·7 MHz
Oscillator	F.M. Generator Connect L1	4.	86·5 MHz (Mod.)	Tuning gang fully closed	L4 (F.M. OSC Coil) Adjust for max. output.
	Output Meter (V.T.V.M.) Connect across speaker voice coil.	5.	110 MHz (Mod.)	Tuning gang fully open	F.M. OSC trimmer Adjust for max. output
		6.	—	—	Repeat step 4 & 5
R.F. tracking		7.	90 MHz (Mod.)	Tune to signal	L2 (F.M. R.F. Coil) Adjust for max. output.
		8.	106 MHz (Mod.)	Tune to signal	F.M. R.F. trimmer Adjust for max. output
		9.	—	—	Repeat steps 7 & 8

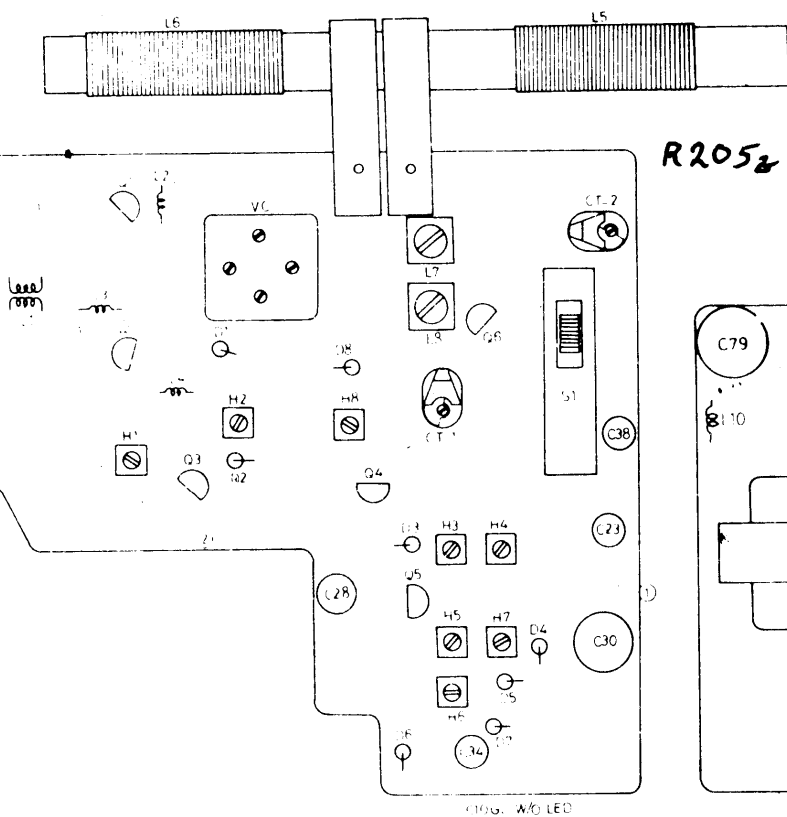
# RADIO SERVICING

**Tape Section: Control Setting; Tape/Radio Tape; Volume; Min.;  
Tape Condition; Recording.**

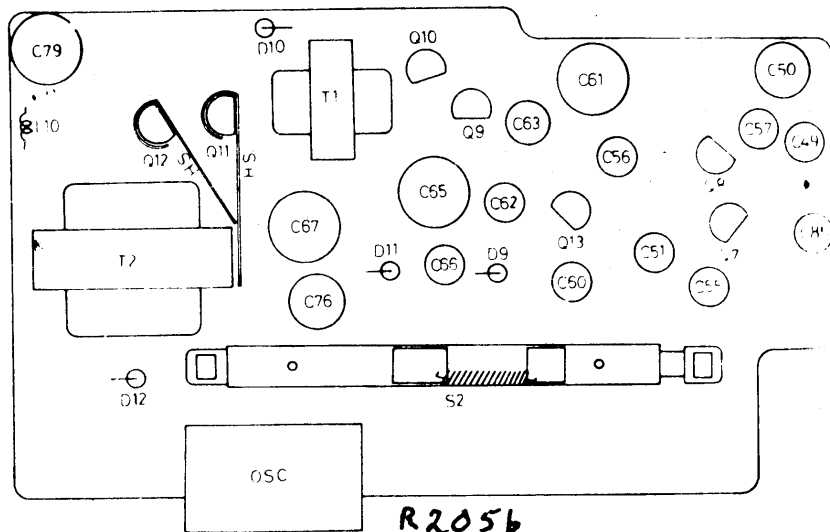
<i>Circuit alignment</i>	<i>Instrument Connection</i>	<i>Adjustment</i>
Oscillator	Digital counter	Adjust T3 for frequency 43 KHz



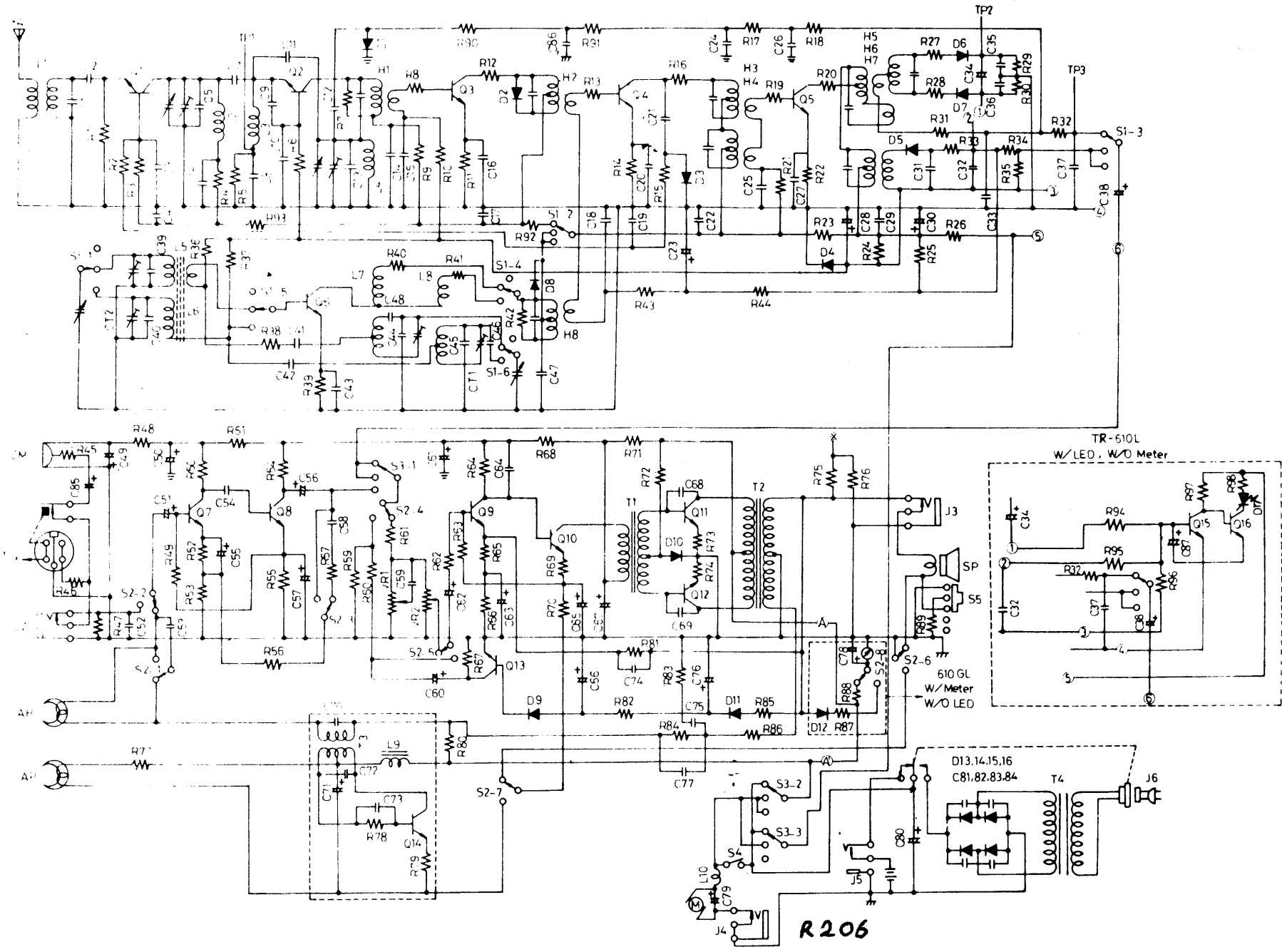
**(R204) DRIVE CORD — MODELS CR30, CR32**



**(R205a) COMPONENT LAYOUT (TUNER)  
— MODELS CR30, CR32.**



**(R205b) COMPONENT LAYOUT (A.F. STAGES)  
— MODELS CR30, CR32,**



(R206) CIRCUIT DIAGRAM — MODELS CR30, CR32