SERVICE MANUAL AWA B105

AM/FM DIGITAL CLOCK RADIO

SPECIFICATIONS Circuit

10 transistors, 5 diodes, superheterodyne

 $\begin{array}{l} AM~540KHz-1600KHz\\ FM~88MHz-108MHz \end{array}$ Frequency

AM 300 micro v/M 50 mW Output Sensitivity

FM 10 micro v/M 500 mW Output

AM 455KHz FM 10.7MHz I.F.

Output Power

300 mW (max) 200 mW 10% THD.

3" 8 ohms Speaker 240 V AC 50Hz Power



ALIGNMENT INSTRUCTION

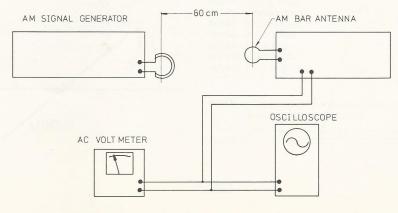
AM Alignment

NOTES: Set Band Switch to AM position.

Set Volume control to Maximum position.

Set Signal Generator for 1000 KHz (30% modulation)

STEP	SIG. GEN. COUPLING	SIG. GEN. FREQ.	DIAL SETTING	INDICATOR	ADJUST	REMARKS	
1.	Make a loop of several turns of wire and radiate signal into receiver	455 KHz (30% Mod)	0% Mod) fully open. o		Connect T-5 T-7 across speaker voice coil		
2.	As above.	1650 KHz	1650 KHz	As above.	CT-4	As above.	
3.	As above.	525 KHz	525 KHz	As above.	T-3	Adjust for maximum output. Repeat steps 2 and 3.	
4.	As above.	1400 KHz.	1400 KHz.	As above.	CT-3	Adjust for maximum output.	
5.	As above.	600 KHz.	600 KHz.	As above.	T-2	Adjust for max. output by sliding along ferrite rod. Repeat steps 4 and 5.	

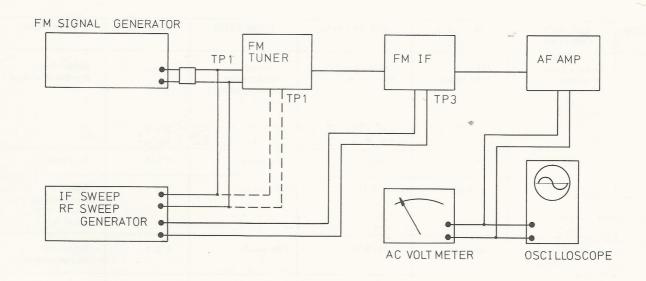


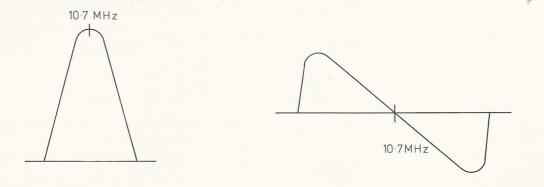
INSERT TO VIDEOTRONICS, OCT/NOV; 1975

FM I.F. Alignment

NOTES: Set Band Switch in FM position. Using Sweep Generator and Oscilloscope.

STEP	SIGNAL GEN. COUPLING	SIGNAL GEN. FREQ.	DIAL SETTING	INDICATOR	ADJUST.	REMARKS
1.	High side to TP-2 . Low side to chassis.	10.7 MHz (10.7 MHz marker).	Tuning gang fully open	Vert. amp. to TP-3 Low side to chassis.	T-1 T-4 T-6 T-8	Adjust for maximum gain.
2.	As above. As	As above.	above. As above.	As above.	T-9	Adjust to place marker at centre of 'S' curve as shown in fig A. Slightly readjust T-8 for maximum amplitude and symmetry of response curve. Repeat steps 6 and 7 for more accurate alignment.





FM RF Alignment

NOTES: Set Band Switch in FM position. Using FM Sweep Generator and Oscilloscope.

Step	SWEEP GEN. COUPLING	SWEEP GEN. FREQ.	DIAL SETTING	INDICATOR	ADJUST	REMARKS	
1.	High side to TP-1. Low side to chassis.	109 MHz (109 MHz marker).	109 MHz	Vert. amp. to TP-3 Low side to chassis.	CT-2	Adjust for maximum.	
2.	As above.	87 MHz (87 MHz marker).	87 MHz.	As above.	L-4	Adjust for maximum. Repeat steps 1 and 2.	
3.	As above.	106 MHz (106 MHz marker).	106 MHz.	As above.	CT-1	Adjust for maximum.	
4.	As above.	90 MHz	90 MHz.	As above.	L-2	Adjust for maximum. Repeat steps 3 and 4.	
5.	As above.	98 MHz	98 MHz	As above.	L-1	Adjust for maximum.	

PARTS LIST MODEL B105

REF. NO.	DESCRIPTION		REF. NO.	DESCRIPTION		
HD-2 HD-3 HD-4 HD-5 HD-6 HD-7 HD-10 HD-11 HD-12 HD-13 HD-14 HD-15 HD-16 HD-17 HD-18 HD-19	FM Antenna Coil DS-002 AM.RF Coil DS-001 FM.OSC.Coil DS-009 FM. Trap Coil DS-005 FM.IFT. Coil CA-001	- TR1/TR2/TR3 - TR4/TR5/TR6 - TR7/TR8 - TR10 - TR9 - D1 - D3/D4/D5 - D6	HD-21 HD-22 HD-23 HD-24 HD-76 HD-77 HD-81 HD-86 HD-93 HD-95 HD-97 HD-98 HD-99 HD-99	AM.OSC. Coil DJ-001 AM.IFT. Coil AM.IFT. Coil AM.IFT. Coil Rotary Switch	BW-004 BW-005 BW-006 WR-001 SA-001 AP-006 DT-40B57	- T2 - T3 - T5 - T7 - T10 - 80hm - w/AC cord

NOTE: Always quote the model number and the part number when ordering replacement parts.

The manufacturers reserve the right to vary specifications and/or materials as may be deemed necessary or desirable at any time.

