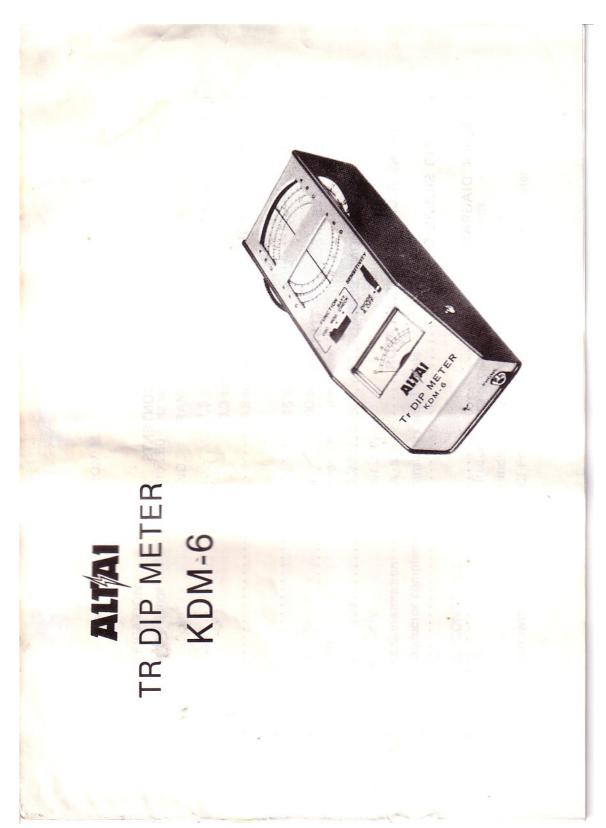
Operation Manual for Altai KDM-6 Dip Meter

Scanned by OZ1BXM Lars Petersen in October 2005.



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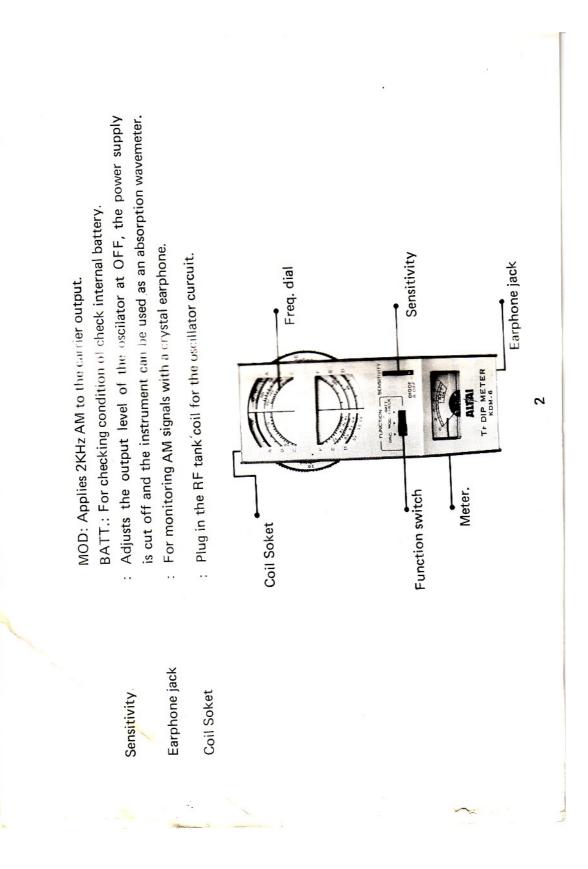
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. SPE(SPECIFICATION	~ -
2 PAN	PANEL CONTROLS	2
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SPECIFICATION		
uency Range	1.5 to 250	1.5 to 250 MHz with six plug-in coils.
	BAND	RANGE
	٩	1.5 to 4MHz
	В	3.3 to 8MHz
	U	6.8 to 18MHz
	D	18 to 47MHz
	ш	45 to 110MHz
	ш	100 to 250MHz
ulation	: Approx 2	Approx 2KHz, sine wave
tal Oscillator	: 1–15MHz	1-15MHz, crystal in FT-243 holder
er Supply	: 9 volt battery	tery
ent Consumption	: 2mA, Max.	
Semiconductor complement: 2	nt: 2 transisto	2 transistors and 1 diode
EL CONTROLS		
Freq. dial	: six freque	six frequency scales calibrate according to bands.
Ļ	: For indica	For indicating resonance and for battery check.
ction switch	: OSC: For	OSC: For use as a dip meter or absorption wavemeter



 3. OPERATION Battery Check and Replacement 	
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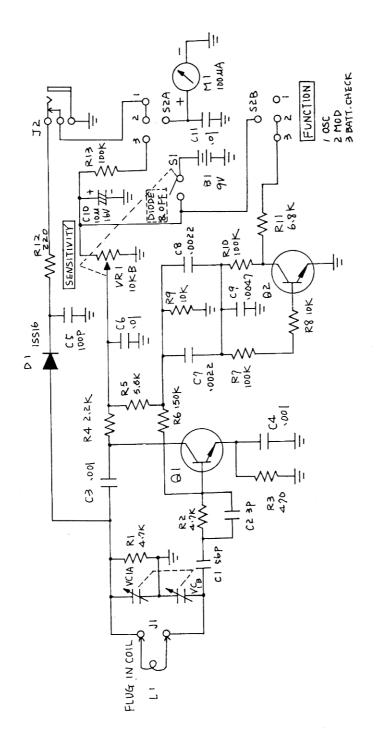
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f) 4. Sh	demends on the strength of the oscillations and/or counting distance
	f) Read the frequency.
	Short Wave Receiver Testing
<u>_</u>	In this application, the dip meter is used as a simple test oscillator, with or without amplitued
ĕ	modulation.
É	The test frequency is set with the suitable coil and frequency dial. The dip meter is placed near
ţ	the receiver, the "input signal strength" can be varied with the distance between the dip meter
an	and the receiver.
ΗC	For operation, set SENSITIVITY for RF output.
ပိ	Communications receivers with beat oscillators can be tested by setting FUNCTION at OSC
fo	for the CW signal.
M	When an AM signal is required, set FUNCTION at MOD A tone of approximately 2KHz will
be	be heard in the loudspeaker.
Ă	Adjustments, as required, can be made, with the respective signals, in the receiver circuits.
5. M	Monitoring Phone Signals
Ì	The wavemeter application, can be used for the monitoring AM phone signal
۷	A crystal earphone is connected to the earphone plug and the plug is inserted in the PHONE
jč	jcak. Turn to the RF test frequency using the proper coil.
Ĕ	For "remote" indication of the modulated output, a $100 \mu A$ DC meter can be connected to the
ea	earphone plug, the inner contact is the + side.

Re-

Use as a crystal Oscillator	Audio Signal Output
In place of the coil, a quartz crystal, 1–15 MHz in the FT_243 holder, inserted in the socket	Set up the instrument for dip meter operation, with coil E and F in the socket.
will produce output at the crystal frequency.	Set FUNCTION at MOD.
Set FUNCTION at OSC and SENSITIVITY as required for the output. The frequency dial is	Audio output at approximately 2KHz is available at the PHONE jack. The plug connections are
rotated until the most stable condition is obtained.	as following
Set the dip meter near the receiver for signal pickup. For modulated output, set FUNCTION	Inner contact for the "hot" side and the sleeve for ground.
at MOD.	This signal can be used for checking audio circuit.
Use as a Crystal Uscullator	Audio Signal Output
In place of the coil, a qu	Set up the instrument for
will produce output at the	Set FUNCTION at MOD,
Set FUNCTION at OSC	Audio output at approxi
rotated until the most stal	as following
Set the dip meter near t	Inner contact for th
at MOD.	This signal can be used fo



BLOCK DIAGRAM

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