DATE 11-12-58 SH OF		TMC	SPECIFICATION	NO.	S-400	
COMPILED BY	TITLE: 17 KC REJECTION NETWORK				JOB	A
APPROVED 6						

PURPOSE:

For a given resonate frequency, fr, and for a given capacitance there is only one value of inductance that will provide resonance. The method outlined serves this very purpose of precise adjustment of toroidal inductances.

INSTRUMENTS USED:

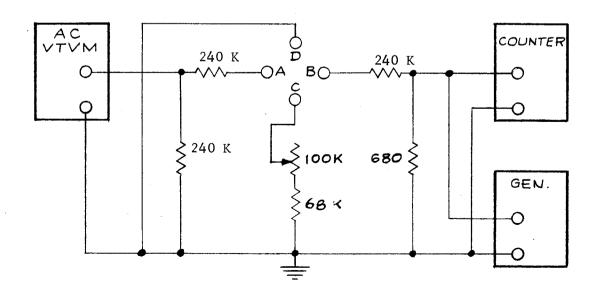
1. Audio Oscillator

Hewlett Packard HP-2000

AC V.T.V.M.

Daven or Heathkit

- Resistors
- (3) $240 \text{ K} \frac{1}{2} \text{ watt}$ (1) $680 \Omega \frac{1}{2} \text{ watt}$
- 4. Berkeley Frequency Counter Model 5500 or 5558



DATE 11-12-58 SH. 3 OF 4		T	МС	SPECIFICATION	NO.	S=400	
T.F.G.	TITLE:	17 Kc	REJECTION	N NETWORK		JOB	A
APPROVED (G							

PROCEDURE:

- 1. Connect the inductance in parallel with the capacitance of given value.
- 2. Adjust the Audio Generator Output connected directly to read 0 DBM (.78.V) on the A.C. meter.
- 3. Set the 7-45 uuf trimmer to approx. mid range.
- 4. Connect this resonant circuit across points A,B and C of the test set up. Refer to Schematic Diagram.
- 5. Adjust the frequency control of the Audio Oscillator (to 17KC+2 >>) and Potentiometer on test set up for minimum output on A.C. Meter (55 db or better down from null).
- 6. Note frequency at this point on frequency counter;

 (f_r = 17000± 2 cycles). Proceed only if noted frequency is lower than specified.f_r. (If f_r is higher than specified, the inductance has to be replaced. Begin with new inductance at Step 1.
- 7. Proceed to remove turns from inductance, rechecking f_r carefully after each operation as in Step 6. (One turn approximately 15 cycles.
- 8. Continue to remove turns, fewer at a time, as f_r approaches the specified value.
- 9. Terminate the operation as soon as fr of the inductance under test has been brought to within specified tolerance as stated in Step 6.

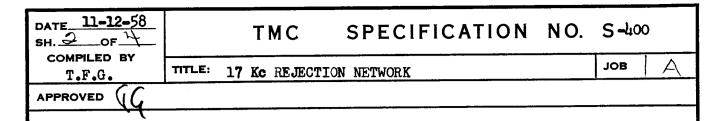
10. In the case that the inductance and capacitance under test are to be used as a unit, mark both clearly as being a set and tag them securely together. DO NOT separate inductance and capacitance hereafter.

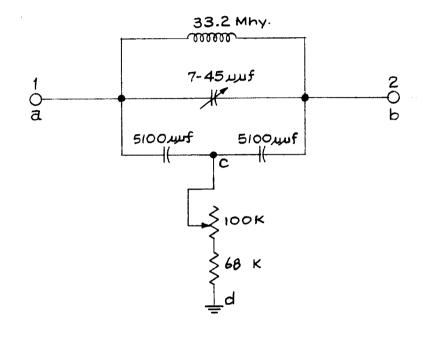
NOTE:

- A. Capacitance and additional items are listed in assembly drawings where reference is made to this specification.
- B. Note that both trimmer cap. and potiometer are not at max and null to resonant freq of 17KC+2 \sim .
- B and d to D. Repeat the foregoing test using

 Potentiometer in unit. The frequency counter

 should read 17000 + 22 ...





REVIS	HOI	SHEET		THE TECHNICAL MATERIEL CORP. MAMARONECK NEW YORK LIST NO.	
DATE	REV.	SHEET	EMN #	DESCRIPTION	APP.
2/ 7 /66	A	1,3,4	 	Revised per EMN	28
					_
		1			_
		1			
		1			
		+	—		_
		-			
		+			
	 				
	—				
	 				
	 				
	 				
			<u> </u>		
	<u> </u>				
	<u> </u>	-	<u> </u>		
	 				
	<u> </u>	 	 		+
 	+	+	+		
	 	 	 		
	 	+	 		
<u> </u>	+	+	1		
	 	1	1		
	t				
	1				
			1		
•	1	1			