

Heath Company

Model: FM-1

Chassis:

Year: Pre 1951

Power:

Circuit:

IF:

Tubes:

Bands:

Resources

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MODEL FM-1,
FM Tuner

This Heathkit Frequency Modulation Tuner operates on the super regenerative principle and covers the new FM Band 88-108 Megacycles. It is 110V 60 cy power transformer operated. The tuning coils are ready assembled to the tuning condenser and the IF transformer is assembled and aligned--the tuning condenser is also aligned and set for peak performance and the trimmers are soldered to prevent misalignment during assembly. The tuner incorporates the latest type vernier slide rule dial. The dial cable is special long wearing nylon for years of service. As this unit is power transformer operated, it can safely be attached to AC-DC type receivers for amplification without danger.

The newer types of insulated resistors have a higher wattage rating. The 1/4 watt size is now rated at 1/2 watt and these are used in this kit.

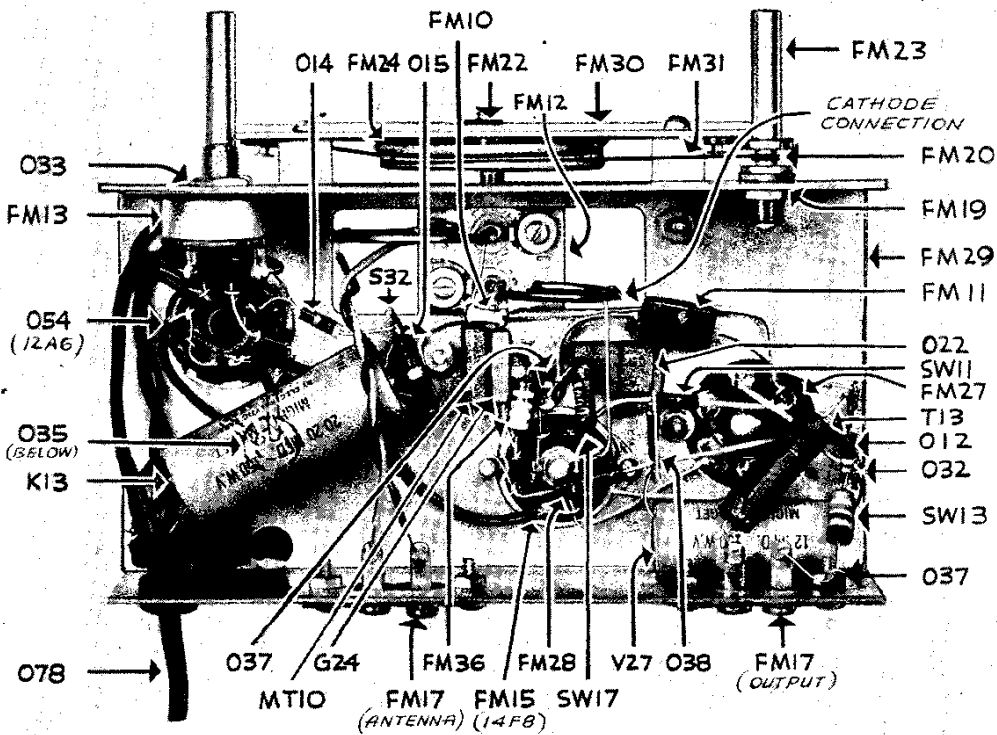
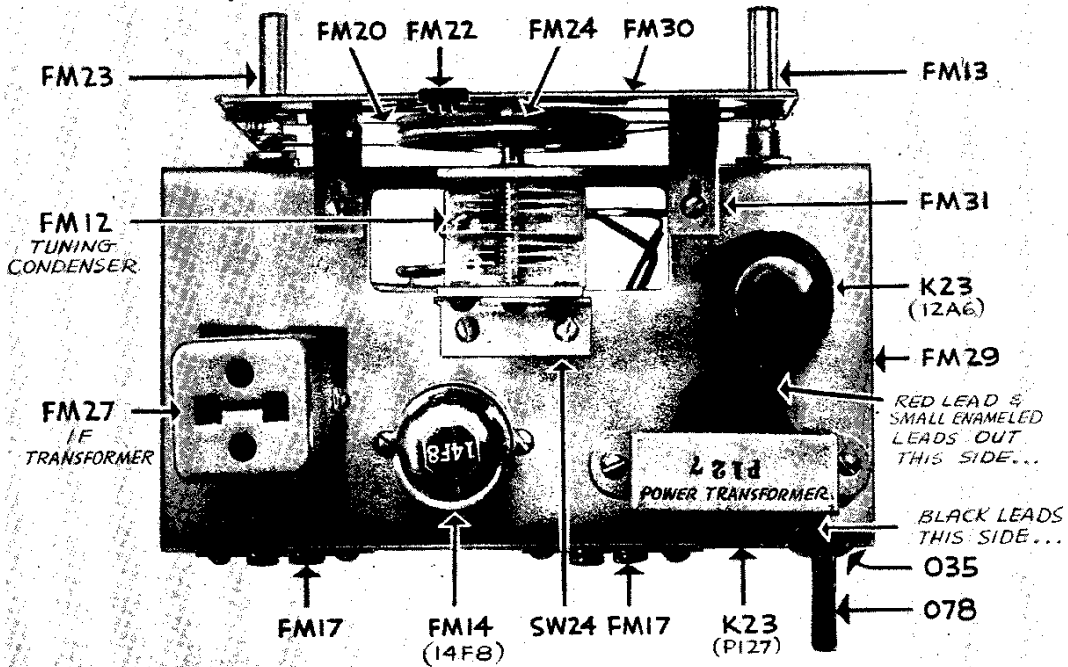
Resistors and potentiometers have a tolerance rating of plus or minus 20% unless otherwise stated. Therefore, a one megohm unit may test between 800,000 and 1,200,000 ohms. The Heathkit circuits are designed to accommodate these variations.

In connecting the tuner to an amplifier, be certain that the grounded side of the tuner is connected to the grounded side of the amplifier. The usual connecting cable is a single shielded wire and the grounded side is the shield. The tuner may be connected to the phonograph or FM connection of any radio. The connecting plug depends on the type of radio and should be obtained from the radio dealer. For local stations, a single wire approximately 3 feet long can be connected to one of the antenna terminals but for distant reception an FM dipole antenna is recommended with connections. On single wire, try each post and use one with best results.

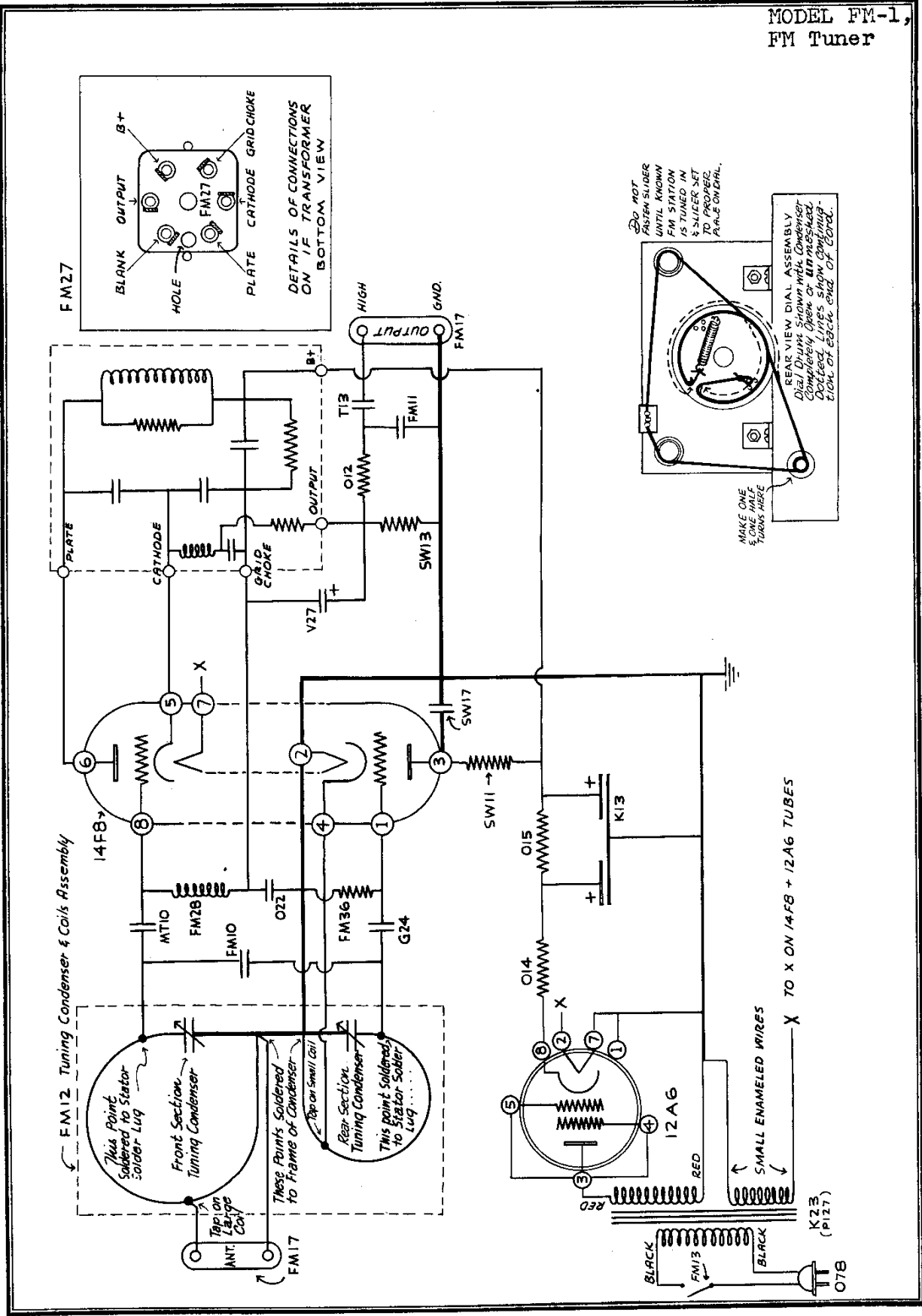
The table below lists the voltages measured between the chassis and tube socket contact. Measurements were taken with 1,000 ohms per volt voltmeter--normal variation of plus or minus 15% are to be expected due to line voltage variations.

12A6		14F8	
Pin 1	0	Pin 1	0
2	9-12VAC	2	0
3	110-150VAC	3	110-140V
4	110-150VAC	4	0
5	110-150VAC	5	40-50V
6	(used as tie point)	6	110-140V
7	0	7	9-12VAC
8	120-150V	8	3-20V

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FM 1 FM TUNER PARTS LIST

Part No.	No. Parts	Description	Part No.	No. Parts	Description
SW11	1	100 Ohm Resistor	S22	16	6-32 x 1/4 Nuts
014	1	470 Ohm Resistor	FM18	1	#8-32 Set Screw for pulley
015	1	2000 Ohm Resistor	033	1	Control Nut
SW13	1	22000 Ohm Resistor	FM19	1	Drive Shaft Nut
FM36	1	27000 Ohm Resistor	035	2	3/8" Grommet
012	1	100000 Ohm Resistor	037	3	Soldering Lugs
FM10	1	3 MMF Ceramic Condenser	FM20	1	Pc. Dial Cable (28")
G24	1	47 MMF Mica Condenser	FM21	1	Dial Cable Spring
MT10	1	470 MMF Mica Condenser	FM22	1	Slide Pointer
FM11	1	1000 MMF Mica Condenser	FM23	1	Drive Shaft
SW17	1	1000 MMF Ceramic Condenser	FM24	1	Pulley
022	1	.005 MFD Condenser	FM25	1	Length Hookup Wire (2 ft.)
T13	1	.01 MFD 300V Condenser	FM26	1	Length Spaghetti (4 in.)
V27	1	12 MFD 150V Electrolytic Condenser	078	1	Line Cord
K13	1	20-20 MFD 150V Electrolytic Cond.	FM27	1	IF Transformer
FM12	1	Tuning Condenser with Coils	FM28	1	RF Choke
FM13	1	Rotary Switch SPST	K25	1	Power transformer (P127)
FM14	1	14F8 Tube	FM29	1	Chassis
K23	1	12A6 Tube	SW24	1	Condenser Mounting Bracket
FM15	1	Loctal Tube Socket	K16	3	6-32 x 3/16 Screws
054	1	Octal Tube Socket	FM30	1	Dial Plate Assembly
043	1	Octal Socket Ring	FM31	2	Dial Mounting Brackets
FM16	2	Brown Acorn Knobs	FM32	1	Set of Instructions
FM17	2	Screw Type Dual Terminal Strips	FM33	1	Parts List
038	1	Single Terminal Strip	FM34	1	Schematic
S32	2	Dual Terminal Strips	FM35	1	Pictorial
0101	1	3/8" Lock washer	FM44	L	Photo Print
031	14	6-32 x 3/8 Screws			