



THE FISHER **FM-100**

SERVICE

MANUAL



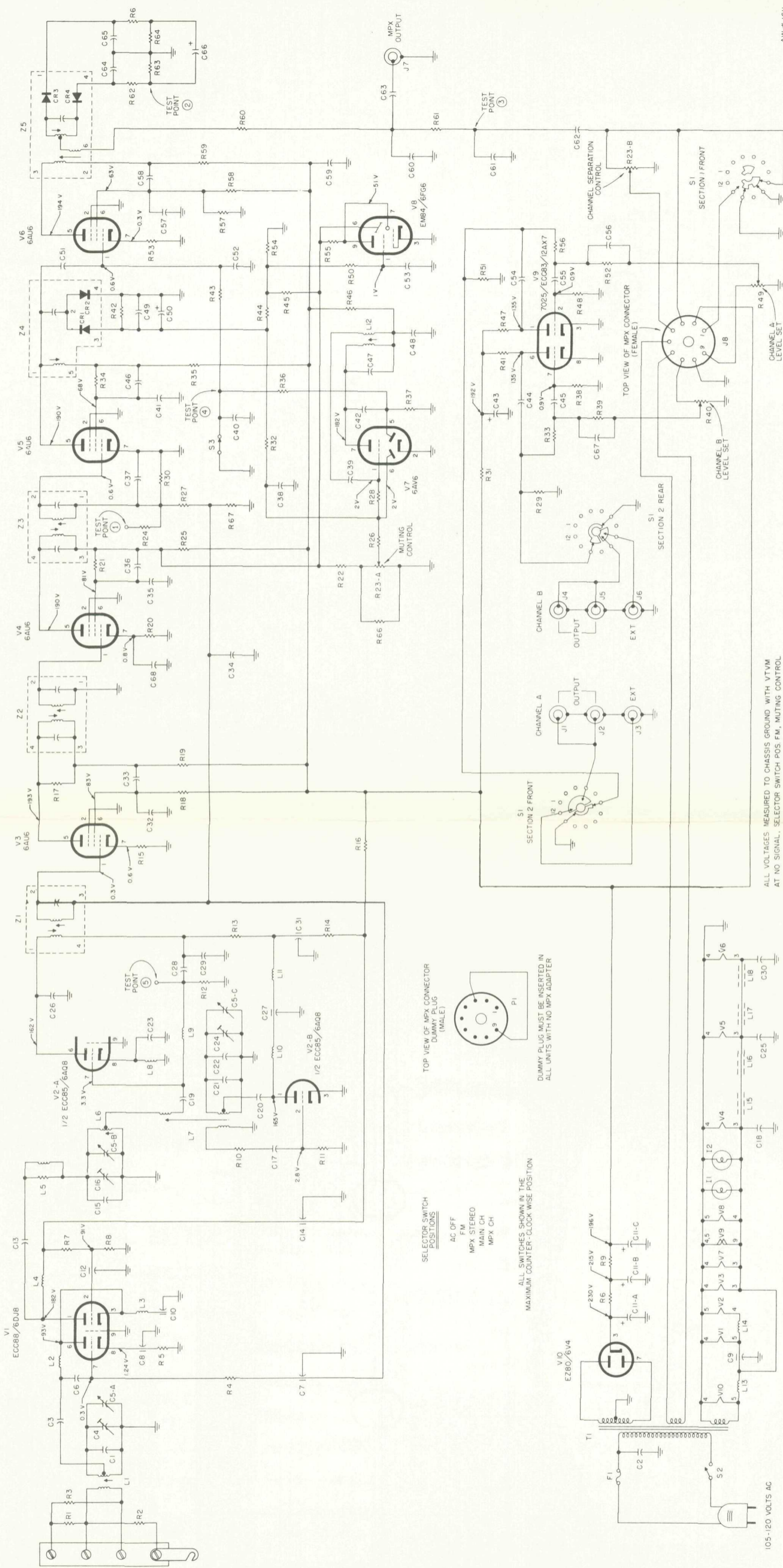
MODEL FM-100

CHASSIS SERIAL NUMBERS
FROM 20001 TO 29999 INCLUSIVE

PRICE: \$1.00

FISHER RADIO CORPORATION • NEW YORK

SCHEMATIC DIAGRAM



AW # 1611
P746 SCHEMATIC FM-100

ALL VOLTAGES MEASURED TO CHASSIS GROUND WITH VTVM AT NO SIGNAL. SELECTOR SWITCH POS. FM, MUTING CONTROL POS. OFF, DUMMY PLUG IN PLACE OF MPX ADAPTOR. LINE 117V AC, TOLERANCE ±10%.

RESISTORS	R1	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R22	R23-A	R23-B	R24	R25	R26	R27	R28	R29	R30	R31	R32	R33	R34	R35	R36	R37	R38	R39	R40	R41	R42	R43	R44	R45	R46	R47	R48	R49	R50	R51	R52	R53	R54	R55	R56	R57	R58	R59	R60	R61	R62	R63	R64	R65	R66	R67	R68	R69	R70	R71	R72	R73	R74	R75	R76	R77	R78	R79	R80	R81	R82	R83	R84	R85	R86	R87	R88	R89	R90	R91	R92	R93	R94	R95	R96	R97	R98	R99	R100				
CAPACITORS	C1	C2	C3	C4	C5-A	C5-B	C5-C	C6	C7	C8	C9	C10	C11-A	C11-B	C11-C	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C23	C24	C25	C26	C27	C28	C29	C30	C31	C32	C33	C34	C35	C36	C37	C38	C39	C40	C41	C42	C43	C44	C45	C46	C47	C48	C49	C50	C51	C52	C53	C54	C55	C56	C57	C58	C59	C60	C61	C62	C63	C64	C65	C66	C67	C68	C69	C70	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80	C81	C82	C83	C84	C85	C86	C87	C88	C89	C90	C91	C92	C93	C94	C95	C96	C97	C98	C99	C100

ALIGNMENT INSTRUCTIONS

Read These Instructions With Extreme Care Before Attempting Alignment.

TEST EQUIPMENT: FM Signal Generator, DC VTVM, Oscilloscope.

CHASSIS: 1 — For the entire alignment procedure, set the Selector Switch to FM position, the Muting Control to OFF position, the Channel A Level Set to MAXIMUM, and connect the oscilloscope to the Channel A output.

2 — Turn the Tuning knob maximum counterclockwise. (Dial pointer should line up with calibration mark at the beginning of the dial. Reset the dial pointer if necessary.)

3 — Allow the tuner and test equipment at least 15 minutes warm-up time. Adjust the line voltage for 117 volts AC 50-60 cps. Use fully insulated tools: a small screw-driver for trimmer capacitors C4, C16 and C24; a K-Tran tool for Z1, Z2 and Z3; a hex tool for all L1, L6, L7 and Z5.

STEP	DIAL	SIGNAL GENERATOR			DC VTVM	ADJUST	INDICATION
		GENERATOR COUPLING	FREQ.	MOD.			
1	{ Set dial pointer for extreme C.C.W. position. }	Pin 1, V4	10.7 MC	None	Test Point 2	Z4 Z5 top and bottom	Maximum negative voltage below 5 volts.
2		Pin 1, V4	10.7 MC	None	Test Point 3	Z5 top	Zero indication on zero center dial.
3		Ungrounded tube shield of V2	10.7 MC	None	Test Point 1	Z1, Z2, Z3 top and bottom	Maximum negative voltage below 2 volts.
4	90 MC	{ Two 120 ohm carbon resistors in series with generator leads to an- tenna terminals 2 and 3. }	90 MC	±22.5 KC deviation at 400 cps.	Test Point 1	L1, L6 and L7	{ Adjust for maximum negative voltages and check for sine wave-form. }
5	106 MC		106 MC	±22.5 KC deviation at 400 cps.	Test Point 1	C4, C16 and C24	

NOTE: (Steps 1 and 2): Decrease signal generator output while aligning IF transformers so that the VTVM indicates not more than specified voltages. Repeat steps 4 and 5 to obtain proper dial calibration and maximum sensitivity.



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