



THE FISHER FM-100 SERVICE MANIIAI

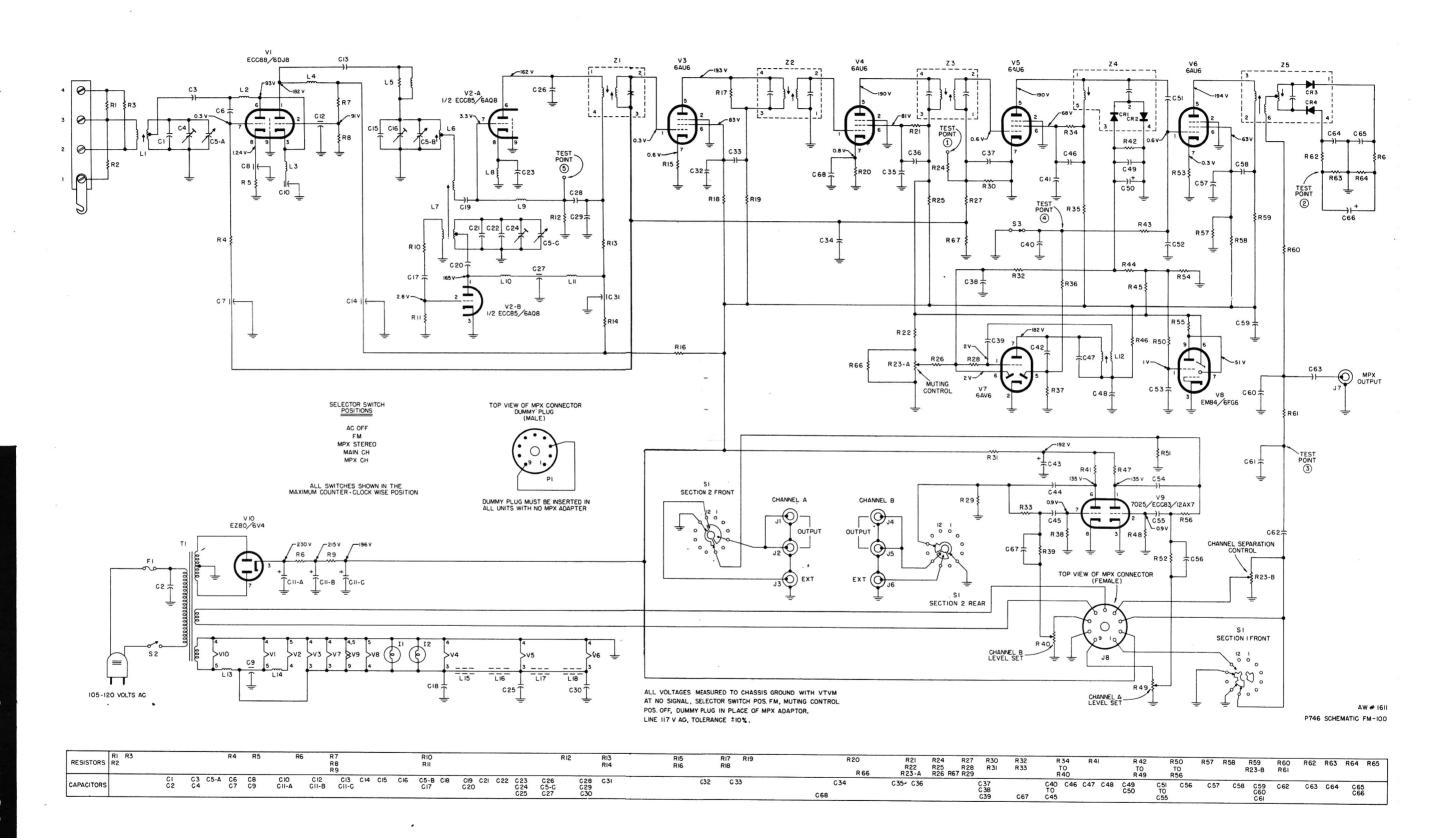


CHASSIS SERIAL NUMBERS FROM 20001 TO 29999 INCLUSIVE

PRICE: \$1.00

PARTS DESCRIPTION LIST

RC208F224K RC208F334K RC208F101K	RC20BF185K	RC20BF183K	RC20BF102K	RC20BF271K	RC20BF333K	RC20BF682K	RC20BF152K	RC20BF563K	RC20BF185K	-ORMERS	Order No.	1726-124	150066-7	1629-17	1726-126	L726-125	L50066-19	L50066-2	150066-3	L50210-21	150066-3		L592-189	T746-115	ZZ662-117	ZZ629-142 7750210-2	L551-121	ZZ592-170		Part No.	V-1N295	V-1N542	F684-143	P50181	5746-118	Part of SI	Part of R23		Part No.	A5746-114	A/40-143	E3287	E50154-1	E50154-2	E50152	E50153-1 E50182	H657-145	N746-113 X1036
Composition, 2.2M Composition, 220K Composition, 330K Composition, 100	Composition, 470K Composition, 1.8M	Composition, 18K	Composition 1K	Composition, 270	Composition, 33K	Composition, 1K	Composition, 1.5K	Composition, 56K	Composition, 1.8M	COILS, CHOKES AND TRANSFORMERS	Description	Coil, FM Antenna	Choke, I Micro Henry	Choke, .30 Micro nenries	Coil FM-RE	Coil, FM Oscillator	Choke, .56 Micro Henries	Choke, 1 Micro Henry	Choke, 1.2 Micro Henries	Coil, Muting Oscillator	Choke, Filament	Choke, 1.2 Micro herries	Choke, Filament Ferrite Bead	Transformer, Power	Transformer, FM-IF	Transformer, FM IF	Coil EM limiter	Transformer, FM Ratio Detector	MISCELLANEOLIS	Description	Crystal Diode, Type 1N295	Crystal Diodes, Matched Pair	Fuse, 1.5 Ampere, Slo-Blo	Lamp, Diai ranei pl.:: 0 biz	Switch Selector	Switch, Power	Switch, Muting	MECHANICAL PARTS	Description	Dress Panel Screened	Olai Pointer Shield Tube 7 Pin	Shield, Tube, 9 Pin	Knob Selector	Knob, Tuning	Knob, Dual Front	knob, Dual Kear Insulating Cap for Dummy Plua P1	Plastic Leg	Dial Glass Fuse Holder
R51 R52 R53	R55 R56	R57	8 5 6 6 7 6	R60	R61	R62 R63 64	R65	R66	R67		Symbol	5 :	2 2	13, 4	3 4	2 5	87	19, 10	-	112	13	115 16	17, 18	•	ιZ	2 22	7 7	72		Symbol	CR1, 2	CR3, 4	Ξ:	11, 2	: 5	\$2	23		Symbol	l	i i		1	I	I	I	I	11
C50072-17 C50089-1 C50089-4 C50072-1	C50072-11 C50074-28	C50089-1	C620-138	C50070-13	C50089-1	IETERS	1/2 watt. unless otherwise		Order No.	RC20BF331K	RC20BF272K	RC20BF104K	P744-146	RC20BF225K	R746-146	RC20BF220K	RC20BF222K	RC20BF474K	RC20BF102K	RC20BF121K	RC20BF473K	RC20BF823K	RC20BF102K	RC20BF121K	RC20BF823K	KC20BF2/4N		R50160-10	RC20BF104K	RC20BF102K	RCZUBFZZ4K	RC20BF104K	RC20BF224K	RC20BF473K	RC20BF472K	RC20BF185K	RC20BF823K	RC20BF102K	RC20BF224K	RC20BF104K	RC20BF334K	R50103-6	RC20BF104K	RC20BF153K	RC20BF224K	RC20BF683K	RC20BF104K	RC20BF226K R50103-6
Ceramic, 2002/04, 1000V Ceramic, 2003/120%, 500V Ceramic, 2020f +80—20%, 500V Ceramic, 330vuf, 1000V	Ceramic, .0033uf, 1000V Molded1uf. 250V	Ceramic, .005uf 20%, 500V	Ceramic, 330001, 1000V	Ceramic, 18uuf N470, 1000V	Ceramic, .005uf, 20 %, 500V	RESISTORS AND POTENTIOMETERS	tolerance.	red: K = kilohm, M =	- 5	Composition, 330	Composition, 2.7K	Composition, 100K	Composition, 120	Composition 2.3M	Wirewound, 330 5W	Composition, 22	Composition, 2.2K	Composition, 470K	Composition, 1K	Composition, 120	Composition, 470	Composition: 82K	Composition, 1K	Composition, 120	Composition, 82K	Composition, 2708 Potentiometer, Dual, 1008 Muting	Control and 100K	Channel Separation	Composition, 100K	Composition, 1K	Composition, 220K	Composition, 100K	Composition, 220K	Composition, 47K	Composition, 4.7K	Composition 1 8M	Composition, 82K	Composition, 1K	Composition, 220K	Composition, 100K	Composition 330K	Potentiometer, 500K Level Set	Composition, 100K	Composition, 15K	Composition, 220K	Composition, 68K	Composition, 100K	Composition, 22M Potentiometer, 500K Level Set
C59 C59 C69	C61 C62		C64, 63	267 C67	C68		_		Symbol	R1, 2	R3	2	5 2	RO D7 8	0 2	R10	R11	R12	R13, 14	R15	K10	818	R19	R20	R21	R22 R23	V.		R24	R25	R26	R28	R29	R30	R31	K32	R34	R35	R36	R37	K38	R40	R41		R43, 44	R45	R47	R48 R49
unless other- eed minimum	Order No.	CC20CJ080D5 C2747	C50070-6	C662-123	C/26-116 C50070-6		C592-187	C670-125			C592-187	C50072-3	C592-187	CC20C3080D5	C50070-6	C50089-1	CC20UJ680K5	C50070-6		CC20PJ050D5	200000000	C50070-4	C662-123	C50089-1	C50070-8	C592-187	C50072-3	C50089-1	C592-187	C50072-17	C50089-1	C50072-17	C50089-1	C50070-4	C50089-2	C50070-6	C50072-17	C50070-6	C746-145	C50074-28	C50089-4	CC20C1050D5	C50089-1	C50089-2	C721-142	C50070-2	C50074-28	C50089-4 C50070-13
CAPACITORS 10% tolerance for all fixed capacitors, unless otherwise noted or marked GMV (guaranteed minimum	cription	Ceramic, 8uuf ± .5uuf, NPO, 500V C	Ceramic, 100uuf N1500, 1000V	Ceramic, Trimmer	FM Variable		Ceramic, Feedthru, .001 of GMV	<u></u>	A — 4001, 300V		Ceramic, Feedthru, .001 of GMV	Ceramic, .001 of, 1000V		Sout NPO, 500V	Ceramic, Infilmed	Ceramic, 100001 141300, 1000v		000			$uot \pm .5uot N220$,	500V 500V 70001 027f N750 1000V	Ceramic, Trimmer	Ceramic, .005uf 20 %, 500V	Ceramic, 24uuf 5 % N150, 1000V	Ceramic, Feedthru, .001 of GMV	Ceramic, 100001 5 % N1500, 1000 v	Ceramic, :00101, 1000V	Ceramic, Feedthru, .001 of GMV	Ceramic, .0027 uf, 1000V	Ceramic, .005uf 20 %, , 500V	Ceramic, .02ut + 80—20 %, 500V	Ceramic, .005uf 20 %, 500V	Ceramic, 47 uuf N750, 1000V	Ceramic, .001 of GMV, 500V	Ceramic, 1000ut N1500, 1000V	Molded, 101, 230V Ceramic: 0027 of 1000V	Ceramic, 100uuf N1500, 1000V	Electrolytic, 20uf, 250V	Molded, .1 of, 250V	Ceramic, .02ut +80—20%, 500V		۸٥	Ceramic, .001 of GMV, 500V	Electrolytic, 2uf, 70V	Ceramic, 12uut NPO, 1000V	Molded1 of, 250V	Ceramic, .02uf +80—20 %, 500V Ceramic, 18uuf N470, 1000V
	Symbol	58	; ខ	2	5 5	C7, 8,	9, 10	C11			C12	C13	C14	C15	9 5) č	9 5	C20	C21		C22	3	C24	C25	C26	C27	228	C23	C3	C32	C33	C34 C35	C36	C37	C38	633	C40	C42	C43	C44	C45	649	C48	C49	C50	C51, 52	C54 C54	C55 C56



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	ENERATOR		DC VTVM	ADJUST	INDICATION
		GENERATOR COUPLING	FREQ.	чор.		7 -	
F	Set dial	Pin 1, V4	10.7 MC	None	Test Point 2	24 Z5 top and bottom	Maximum negative valtage below 5 volts.
2	pointer for extreme C.C.W. position.	Pin 1, V4	10.7 MC	None	Test Point 3	Z5 top	Zero indication on zero center dial.
က		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 WC	Two 120 ohm carbon resistors in series with	90 MC	±22.5 KC deviation at 400 cps.	Test Point 1	11, 16 and 17	Adjust for maximum negative
S	106 MC	generator leads to an- tenna terminals 2 and 3.	106 MC	±22.5 KC deviation at 400 cps.	Test Point 1	C4, C16 and C24	(voltages and check for sine) Wave-form.

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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