



*Stereophonic*

**THE FISHER**

**X-202**

**SERVICE**

**MANUAL**



MODEL X-202

**CHASSIS SERIAL NUMBERS  
10001-19999 INCLUSIVE**

PRICE: \$1.00

**FISHER RADIO CORPORATION · NEW YORK**



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# PARTS DESCRIPTION LIST

## CAPACITORS

10% tolerance for all fixed capacitors, unless otherwise noted or marked GMV (guaranteed minimum value.)

Symbol	Description	Part No.
C1, 2	Ceramic, 390uuf; 1000V	C50072-6
C3, 4	Ceramic, 180uuf; 1000V	C50072-23
C5, 6	Ceramic, 15uuf; N75; 1000V	C50070-18
C7, 8	Ceramic, .001uf; 1000V	C50072-3
C9, 12	Ceramic, 560uuf; 1000V	C50072-14
C10, 11	Ceramic, 1200uuf; 1000V	570072-4
C13, 15	Ceramic, 390uuf; 1000V	C50072-6
C14	Ceramic, 100uuf; N1500; 1000V	C50070-6
C16	Ceramic, 100uuf; N1500; 1000V	C50070-6
C17	Mylar, .01uf; 250V	C50197-48
C18, 19	Ceramic, .02uf; 20%, 500V	C50089-5
C20	Mylar, .01uf; 250V	C50197-48
C21, 22	Ceramic, .0033uf; 1000V	C50072-11
C23, 24	Ceramic, .02uf; 20%, 500V	C50089-5
C25	Ceramic, 24uuf; 5%, N150, 1000V	C50070-8
C26	Ceramic, 30uuf; N150, 1000V	C50070-3
C27, 28	Ceramic, .001uf; 1000V	C50072-3
C29, 30	Ceramic, .005uf; 20%, 500V	C50089-1
C31, 32	Mylar, .68uf; 250V	C50197-57
C33, 34	Mylar, .047uf; 250V	C50197-52
C35, 36	Ceramic, 330uuf; 1000V	C50072-1
C37, 38	Ceramic, .005uf; 20%, 500V	C50089-1
C39, 40	Mylar, .1uf; 250V	C50197-54
41, 42		
C43	Electrolytic, two section: A — 1000uf, 30V      B — 1000uf, 30V	C50180-7
C44, 45	Mylar, .01uf; 250V	C50197-48
C46	Electrolytic, 4 section: A — 40uf, 450V      C — 10uf, 450V B — 10uf, 450V      D — 40uf, 450V	C-50180-10
C47, 48	Electrolytic, 25uf; 6V	C639-114
C49, 50	Ceramic, 30uuf; N150, 1000V	C50070-3
C51, 52	Mylar, .047uf; 400V	C50197-30
C53	Electrolytic, 8uf; 50V	C629-138
C54	Mylar, .047uf; 400V	C50197-30
C55	Electrolytic, 4 section: A — 40uf, 450V      C — 20uf, 450V B — 20uf, 450V      D — 10uf, 450V	C50180-9
C56	Mylar, .047uf; 400V	C50197-30
C57	Ceramic, 10uuf; NPO, 1000V	C50070-11
C58	Ceramic, 15uuf; N75, 1000V	C50070-18
C59	Electrolytic, 8uf; 50V	C629-138
C60, 61	Ceramic, 820uuf; 1000V	C50072-7
C62, 63	Electrolytic, 25uf; 6V	C639-114

## RESISTORS AND POTENTIOMETERS

In ohms, 10% tolerance, 1/2 watt, unless otherwise noted. K = kilohm, M = megohm.

Symbol	Description	Part No.
R1, 2	Potentiometer, 250K	R50160-11
R3, 4, 5, 6	Composition, 100K	RC20BF104K
R7, 8	Composition, 470K	RC20BF474K
R9, 10	Composition, 10K	RC20BF103K
R11	Composition, 330K, 1W	RC30BF334K
R12	Composition, 2.7K, 1W	RC30BF272K
R13, 14	Composition, 15	RC20BF150K
R15	Composition, 2.7K, 1W	RC30BF272K
R16	Composition, 330K, 1W	RC30BF334K
R17, 18	Composition, 1.8M	RC20BF185K
R19, 22	Composition, 1.5M	RC20BF155K
R20, 21	Composition, 10M	RC20BF106K
R23, 24	Composition, 2.2M	RC20BF225K
R25	Composition, 270K	RC20BF274K
R26, 28	Composition, 120K	RC20BF124K
R27	Composition, 270K	RC20BF274K
R29	Composition, 47K, 1W	RC30BF473K
R30, 31	Composition, 470	RC20BF471K
R32	Composition, 47K, 1W	RC30BF473K
R33, 34	Composition, 330K	RC20BF334K
R35, 36	Potentiometer, 250K	R50160-11
R37, 38	Composition, 4.7M	RC20BF475K
R39	Composition, 330K	RC20BF334K
R40, 41	Composition, 220K	RC20BF224K
R42	Composition, 330K	RC20BF334K
R43, 44	Composition, 56K	RC20BF563K
R45, 46	Composition, 2.2M	RC20BF225K
R47, 48	Composition, 560K	RC20BF564K
R49, 50	Composition, 2.7M	RC20BF275K
R51, 52	Composition, 10M	RC20BF106K
R53, 54	Composition, 2.2M	RC20BF225K
R55, 56	Composition, 2.7K	RC20BF272K
R57	Composition, 220K	RC20BF224K
R58	Composition, 270	RC20BF271K
R59, 60	Composition, 18K, 1W	RC30BF183K

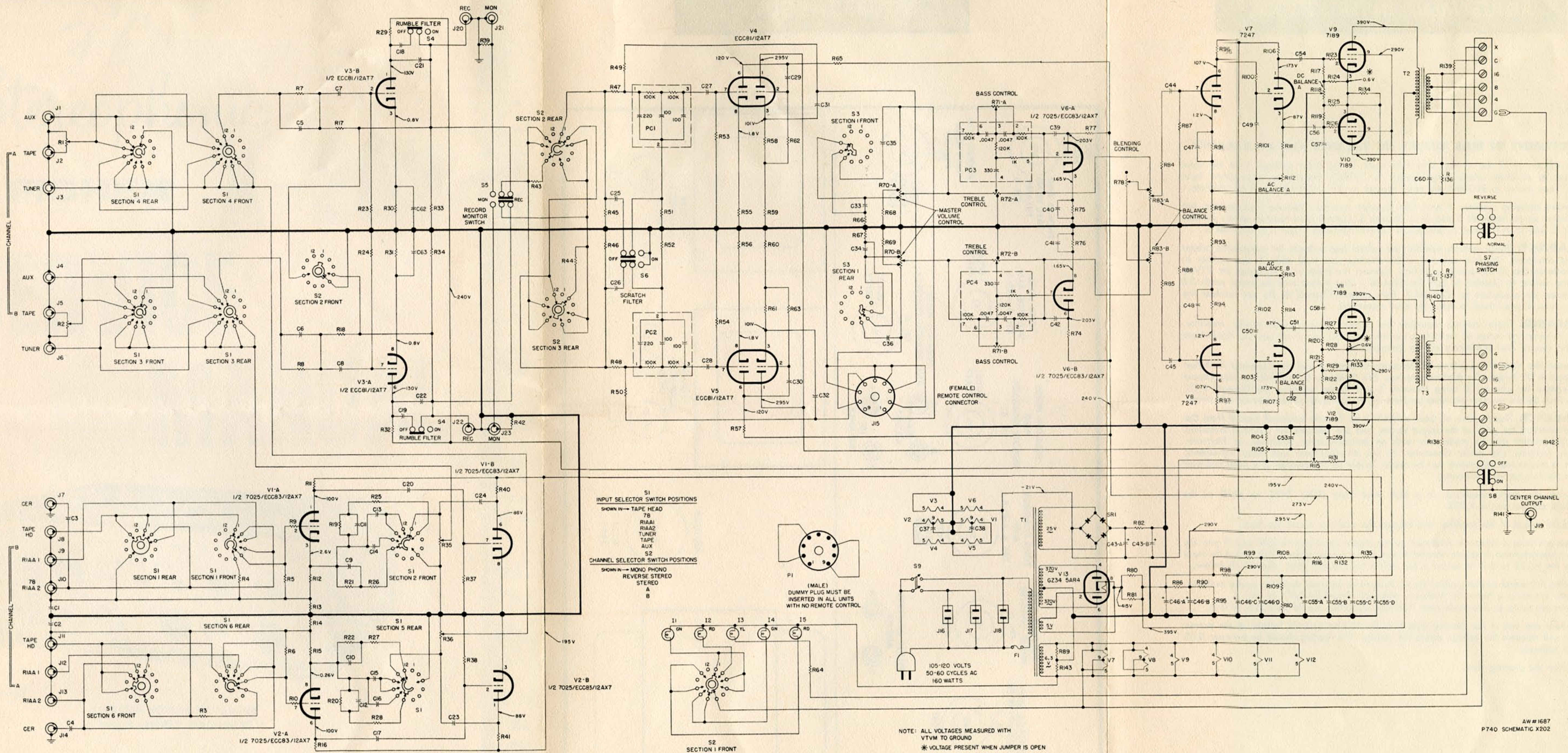
R61	Composition, 270	RC20BF271K
R62, 63	Composition, 1M	RC20BF105K
R64	Composition, 12	RC20BF120K
R65	Composition, 220K	RC20BF224K
R66, 67	Composition, 10K	RC20BF103K
R68, 69	Composition, 22K	RC20BF223K
R70	Potentiometer, 100K, dual volume	R740-128
R71	Potentiometer, 1M, dual base	R50160-25
R72	Potentiometer, 500K, dual treble	R50160-39
R73	not used	
R74	Composition, 100K, 1W	RC30BF104K
R75, 76	Composition, 2.2K	RC20BF222K
R77	Composition, 100K, 1W	RC30BF104K
R78	Potentiometer, 1M dimension	R50160-38
R79	Composition, 100K	RC20BF104K
R80, 81	Wirewound, 250, 7W	R539-121
R82	Wirewound, 15, 5W	R719-106
R83	Potentiometer, 500K; dual balance	R50160-37
R84, 85	Composition, 47K	RC20BF473K
R86	Wirewound, 4K, 5W	R692-130
R87, 88	Composition, 820K	RC20BF824K
R89	Composition, 220	RC20BF221K
R90	Wirewound, 7.5K, 7W	R740-138
R91	Composition, 3.9K	RC20BF392K
R92, 93	Composition, 220	RC20BF221K
R94	Composition, 3.9K	RC20BF392K
R95	Wirewound, 7.5K, 7W	R740-138
R96, 97	Composition, 680K	RC20BF684K
R98	Wirewound, 4K, 5W	R692-130
R99	Wirewound, 2.2K, 5W	R740-143
R100	Composition, 68K	RC20BF683K
R101, 102	Composition, 22K	RC20BF223K
R103	Composition, 68K	RC20BF683K
R104	Composition, 4.7K	RC20BF472K
R105	Potentiometer, 5K	R50103-4
R106, 107	Composition, 68K, 1W	RC30BF683K
R108	Wirewound, 2.2K, 5W	R740-143
R109, 110	Wirewound, 7.5K, 7W	R740-138
R111	Composition, 39K	RC20BF393K
R112, 113	Potentiometer, 50K	R50103-3
R114	Composition, 39K	RC20BF393K
R115	Potentiometer, 5K	R50103-4
R116	Composition, 2.2K, 1W	RC30BF222K
R117	Composition, 220K	RC20BF224K
R118	Potentiometer, 25K	R50103-2
R119, 120	Composition, 220K	RC20BF224K
R121	Potentiometer, 25K	R50103-2
R122	Composition, 220K	RC20BF224K
R123	Composition, 2.2K	RC20BF222K
R124, 125	Composition, 47K	RC20BF473K
R126, 127	Composition, 2.2K	RC20BF222K
R128, 129	Composition, 47K	RC20BF473K
R130	Composition, 2.2K	RC20BF222K
R131	Composition, 4.7K	RC20BF472K
R132	Composition, 4.7K	RC20BF472K
R133, 134	Wirewound, 10, 5%; 2W	R782-120
R135	Composition, 27K	RC20BF273K
R136, 137	Composition, 3.9K	RC20BF392K
R138	Composition, 5.6K	RC20BF562K
R139, 140	Wirewound, .47; 5W	R729-146
R141	Potentiometer, 1K, Center ch. volume	R50160-36
R142	Composition, 5.6K	RC20BF562K
R143	Composition, 220	RC20BF221K

## MISCELLANEOUS

Symbol	Description	Part No.
F1	Fuse, 3.2 ampere, slo-blo	F3319
I1, 2, 3, 4, 5	Lamp, #47	I50009-1
P1	Plug, 9 pin	P50181
PC1, PC2	Printed circuit, scratch filters	PC50187-2
PC3, PC4	Printed circuit, tone controls	PC657-140
S1	Switch-selector	S740-130
S2	Switch mono-stereo	S740-129
S3	Switch loudness	Part of R70
S4, 5, 6, 7, 8	Switch slide	S50200-2
S9	Switch power	Part of R70
SR1	Selenium, bridge rectifier	SR740-137
T1	Transformer, power	T740-115
T2, 3	Transformer, output	T740-116
_____	Knob	E50133-2
_____	Knob, dual rear	E50153-1
_____	Knob, dual front	E50152
_____	Knob, selector	E50154-1
_____	Jewel, blue-green	I50162-4
_____	Jewel, yellow	I50162-2
_____	Jewel, red	I50162-1



# SCHEMATIC DIAGRAM



RESISTORS	R1 R2	R3	R4	R5 R6 R7	R8 R9 R10	R11 R12 R13 R16	R14 R15 R18 R19	R17 R20 R21 R24 R27 R30 R34	R22 R23 R25 R28 R31	R29 R32	R33 R36 R37 R38 R40 R41	R42 R43	R44	R45 R46 R48 R50	R49	R51	R52	R53 R54	R55 R56 R57	R58 R59 R60	R61 R62 R63	R64	R65	R66 R67	R68 R69 R70-B	R70-A	R71-A R72-A R72-B	R74 R75 R76 R77	R78	R81 R82 R83-A R85 R88	R83-B R86 R87 R89	R90 R91 R92 R93	R94 R95 R96 R99	R97 R100 R103 R106 R109 R112 R115 R118 R121 R124 R127 R130 R133	R101 R104 R107 R110 R113 R116 R119 R122 R125 R128 R131 R134 R137 R140	R102 R105 R108 R111 R114 R117 R120 R123 R126 R129 R132 R135	R103 R106 R109 R112 R115 R118 R121 R124 R127 R130 R133	R104 R105 R108 R111 R114 R117 R120 R123 R126 R129 R132 R135	R109 R112 R115 R118 R121 R124 R127 R130 R133	R112 R115 R118 R121 R124 R127 R130 R133	R115 R118 R121 R124 R127 R130 R133	R118 R121 R124 R127 R130 R133	R121 R124 R127 R130 R133	R124 R127 R130 R133	R127 R130 R133	R130 R133	R133	R136 R139 R141	R142
CAPACITORS	C1 C2 C3 C4	C5 C6	C7 C8 C9	C10 C11 C12 C13 C14 C17 C18 C19 C20	C15 C16 C18 C21 C22 C23 C24	C25 C26	C27 C28	C29 C30 C32	C31 C32	C33 C34	C35 C36	C37 C38	C39 C40 C41	C42 C43-A C43-B	C44 C45 C46-A C46-B C46-C C46-D C47 C48	C49 C50	C51 C52 C53 C54 C55-A C55-B C55-C C55-D	C56 C57 C58	C59 C60 C61																														