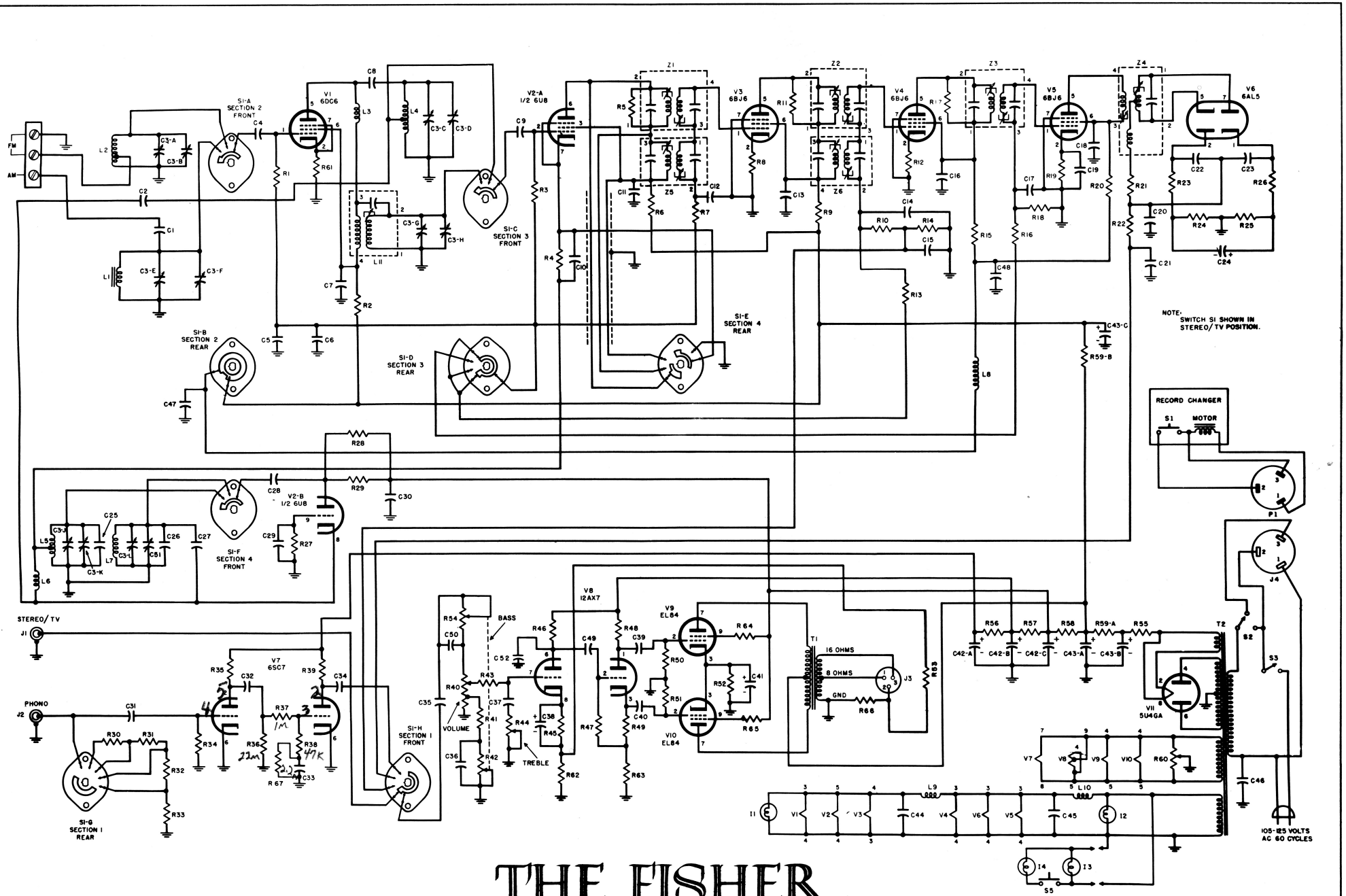

THE FISHER

RADIO-PHONOGRAPH

SERIES 61

Parts Description List

SYMBOL	DESCRIPTION	PART NUMBER
C-1, C-2	Capacitor: 2.2 mmfd; 500 V	C-3039
C-3	Capacitor, FM-AM Variable	C-556-116
C-4	Capacitor, Ceramic: 220 mmfd; 500 V	CC21GP221M5
C-5	Capacitor, Ceramic: .005 mfd; 600 V	CK62GP502V6
C-6	Capacitor: .047 mfd; 200 V	C68P473M2
C-7	Capacitor, Ceramic: .02 mfd; 600 V	C-556-122
C-8	Capacitor, Ceramic: 24 mmfd, 10%; 500 V	CC21GP240K5
C-9, C-52	Capacitor, Ceramic: 220 mmfd; 500 V	CC-21GP221M5
C-10, C-11, C-12, C-13	Capacitor, Ceramic: .02 mfd; 600 V	C-556-122
C-14, C-15	Capacitor, Ceramic: 100 mmfd; 500 V	CC21GP101M5
C-16	Capacitor, Ceramic: .005 mfd; 600 V	CK62GP502V6
C-17,	Capacitor, Ceramic: 100 mmfd; 500 V	CC-21GP101M5
C-18, C-19	Capacitor, Ceramic: .005 mfd; 600 V	CK62GP502V6
C-20	Capacitor, Ceramic: 300 mmfd, 10%; 500 V	CC21GP301K5
C-21, C-50	Capacitor, Ceramic: 1000 mmfd, 10%; 500 V	CC26GP102K5
C-22, C-23	Capacitor, Ceramic: 300 mmfd, 10%; 500 V	CC21GP301K5
C-24	Capacitor, Electrolytic: 8 mfd; 50 V	C-531-118
C-25, C-27	Capacitor, Ceramic: 5 mmfd, N1400; 500 V	CC20VK050G5
C-26	Capacitor, Ceramic: 2 mmfd, N750; 500 V	CC20UK020D5
C-28	Capacitor, Ceramic: 5000 mmfd; 500 V	C-3338
C-29	Capacitor, Ceramic: 47 mmfd; 500 V	C-3350
C-30	Capacitor, Ceramic: .005 mfd; 600 V	CK62GP502V6
C-31	Capacitor, Ceramic: .02 mfd; 600 V	C-556-122
C-32	Capacitor, Ceramic: .01 mfd; 600 V	CK62GP103V6
C-33	Capacitor: .0047 mfd, 10%; 200 V	C68P472K2
C-34	Capacitor: .047 mfd; 200 V	C68P473M2
C-35	Capacitor: .01 mfd; 400 V	C68P103M4
C-36	Capacitor: .022 mfd, 10%; 200 V	C68P223K2
C-37	Capacitor, Ceramic: 1000 mmfd, 10%; 500 V	CC26GP102K5
C-38	Capacitor, Electrolytic: 25 mfd; 6 V	C-556-137
C-39, C-40	Capacitor: .01 mfd; 400 V	C68P103M4
C-41	Capacitor, Electrolytic: 50 mfd; 25 V	C-556-128
C-42, C-43	Capacitor, Electrolytic: 40/40/20 mfd; 450 V	C-50028-1
C-44, C-45	Capacitor, Ceramic: .005 mfd; 600 V	CK62GP502V6
C-46	Capacitor, Molded Tubular: .01 mfd; 600 V	C-2747
C-47, C-48	Capacitor, Ceramic: .005 mfd; 600 V	CK62GP502V6
C-49	Capacitor, Ceramic: .02 mfd; 600 V	C-556-122
C-51	Capacitor, Ceramic Trimmer: 1-6 mmfd, NPO	C-520-159
I-1, I-2, I-3	Lamp, Pilot Light #47	I-50009-1
I-4	Lamp, 3 Watts	I-558-117
J-1	Jack: 1 Female Contact	J-3143
J-2	Jack: 1 Female Contact Insulated	J-1030
J-3	Jack: Speaker	J-1589
J-4	Receptacle, 3 Prong	J-539-123
L-1	Coil; AM Loopstick	L-576-123
L-2	Coil: FM Antenna	L-556-131
L-3	Choke, RF: 2.2 microhenrys	L-3352
L-4	Coil: FM RF	L-556-132
L-5	Coil: AM Oscillator	L-556-123
L-6	Choke: RF	L-509-147
L-7	Coil: FM Oscillator	L-556-133
L-8	Choke, RF: 2.2 microhenrys	L-3352
L-9, L-10	Choke, Filament	L-520-156
L-11	Coil: AM RF	L-556-125
R-1	Resistor, Composition: 1 megohm, 10%; ½ W	RC20BF105K
R-2	Resistor, Composition: 1000 ohms, 10%; ½ W	RC20BF102K
R-3	Resistor, Composition: 2.2 megohms, 10%; ½ W	RC20BF225K
R-4, R-53	Resistor, Composition: 680 ohms, 10%; ½ W	RC-20BF681K
R-5	Resistor, Composition: 68,000 ohms, 10%; ½ W	RC20BF683K
R-6	Resistor, Composition: 1000 ohms, 10%; ½ W	RC20BF102K
R-7	Resistor, Composition: 470,000 ohms, 10%; ½ W	RC20BF474K
R-8	Resistor, Composition: 68 ohms, 10%; ½ W	RC20BF680K
R-9	Resistor, Composition: 1000 ohms, 10%; ½ W	RC20BF102K
R-10	Resistor, Composition: 100,000 ohms, 10%; ½ W	RC208F104K

SYMBOL	DESCRIPTION	PART NUMBER
R-11	Resistor, Composition: 330,000 ohms, 10%; ½ W	RC20BF334K
R-12	Resistor, Composition: 100 ohms, 10%; ½ W	RC20BF101K
R-13	Resistor, Composition: 2.2 megohms, 10%; ½ W	RC20BF225K
R-14	Resistor, Composition: 33,000 ohms, 10%, ½ W	RC20BF333K
R-15, R-16	Resistor, Composition: 1000 ohms, 10%; ½ W	RC20BF102K
R-17	Resistor, Composition: 330,000 ohms, 10%; ½ W	RC20BF334K
R-18	Resistor, Composition: 100,000 ohms, 10%; ½ W	RC20BF104K
R-19	Resistor, Composition: 100 ohms, 10%; ½ W	RC20BF101K
R-20	Resistor, Composition: 1000 ohms, 10%; ½ W	RC20BF102K
R-21	Resistor, Composition: 68 ohms, 10%; ½ W	RC20BF680K
R-22	Resistor, Composition: 68,000 ohms, 10%; ½ W	RC20BF683K
R-23	Resistor, Composition: 1500 ohms, 10%; ½ W	RC20BF152K
R-24, R-25	Resistor, Composition: 6800 ohms, 10%; ½ W	RC20BF682K
R-26	Resistor, Composition: 1000 ohms, 10%; ½ W	RC20BF102K
R-27	Resistor, Composition: 15,000 ohms, 10%; ½ W	RC-20BF153K
R-28	Resistor, Composition: 68,000 ohms, 10%; 1 W	RC30BF683K
R-29	Resistor, Composition: 33,000 ohms, 10%; 2 W	RC40BF333K
R-30, R-31	Resistor, Composition: 8200 ohms, 10%; ½ W	RC20BF822K
R-32	Resistor, Composition: 2700 ohms, 10%; ½ W	RC20BF272K
R-33	Resistor, Composition: 3900 ohms, 10%; ½ W	RC20BF392K
R-34	Resistor, Composition: 22 megohms, 10%; ½ W	RC20BF226K
R-35	Resistor, Composition: 100,000 ohms, 10%; ½ W	RC20BF104K
R-36	Resistor, Composition: 22 megohms, 10%; ½ W	RC20BF226K
R-37	Resistor, Composition: 1 Megohm, 10%; ½ W	RC20BF105K
R-38	Resistor, Composition: 47,000 ohms, 10%; ½ W	RC20BF473K
R-39	Resistor, Composition: 100,000 ohms, 10%; ½ W	RC20BF104K
R-40	Potentiometer, Composition: 500,000 ohms	R-50000-16
R-41	Resistor, Composition: 10,000 ohms, 10%; ½ W	RC20BF103K
R-42, R-54	Potentiometer, Dual, Composition	R-576-118
R-43	Resistor, Composition: 220,000 ohms, 10%; ½ W	RC20BF224K
R-44	Potentiometer, Composition: 1 Megohm	R-556-140
R-45	Resistor, Composition: 4700 ohms, 10%; ½ W	RC20BF472K
R-46	Resistor, Composition: 470,000 ohms, 10%; ½ W	RC20BF474K
R-47	Resistor, Composition: 1 megohm, 10%; ½ W	RC20BF105K
R-48	Resistor, Composition: 100,000 ohms, 10%; ½ W	RC20BF104K
R-49	Resistor, Composition: 2200 ohms; 10%; ½ W	RC20BF222K
R-50, R-51	Resistor, Composition: 470,000 ohms, 10%; ½ W	RC20BF474K
R-52	Resistor, Wirewound: 125 ohms, 10%; 7 W	R-556-124
R-55, R-59A, R-59B	Resistor, Wirewound: 5650 ohms, tapped at 50 and 150 ohms	R-556-147
R-56	Resistor, Composition: 22,000 ohms, 10%; ½ W	RC20BF223K
R-57	Resistor, Composition: 4700 ohms, 10%; ½ W	RC20BF472K
R-58	Resistor, Composition: 2200 ohms, 10%; 2 W	RC-40BF222K
R-60	Potentiometer, Wirewound: 500 ohms	R-516-128
R-61	Resistor, Composition: 68 ohms, 10%; ½ W	RC20BF680K
R-62	Resistor, Composition: 220 ohms, 10%; ½ W	RC20BF221K
R-63	Resistor, Composition: 100,000 ohms, 10%; ½ W	RC20BF104K
R-64, R-65	Resistor, Composition: 68 ohms, 10%; ½ W	RC-20BF680K
R-66	Resistor, Wirewound: 2 ohms, 2 W	R-539-108
R-67	Resistor, Composition: 2.2 megohms, 10%; ½ W	RC-20BF225K
S-1	Switch, Band Selector	S-556-119
S-2	Switch, Automatic Turn Off	Part of R-44
S-3	Switch, Power	Part of R-42, R-54
T-1	Transformer, Output	T-539-117
T-2	Transformer, Power	T-556-115
Z-1	Transformer: FM IF	ZZ-2987
Z-2, Z-3	Transformer: FM IF	ZZ-509-130
Z-4	Transformer: FM Detector	ZZ-2986
Z-5	Transformer: AM IF	ZZ-2985
Z-6	Transformer: AM IF	ZZ-2984

ALIGNMENT INSTRUCTIONS: READ WITH EXTREME CARE BEFORE ATTEMPTING ALIGNMENT. To set pointer, turn the tuning capacitor fully closed and set pointer to last reference mark at low frequency end of dial. Use an insulated screwdriver for alignment adjustment.

STEPS	DUMMY ANTENNA	COUPLING	FREQUENCY	MODULATION	BAND SWITCH SETTING	DIAL POINTER SETTING	INDICATING METER	ADJUST	REMARKS
1	.01 mfd	C-3-G (AM Converter Section of Variable Capacitor)	455 KC	400 CPS AM	AM	1000 KC (approx.)	AC Voltmeter to speaker output terminals and 16-ohm load	Z-5, Z-6 Top & Bottom	Adjust for maximum deflection.
2	"	External Antenna	1400 KC	"	"	1400 KC	"	C-3H, C-3K C-3F	"
3	"	"	600 KC	"	"	600 KC	"	L-5, L-11	"
4	Repeat Steps 2 & 3								
5	—	To shield of V-2 (6U8) Unground shield	10.7 MC	None	FM	Point of no interference	DC VTVM to negative side of C-24 (8 mfd)	Z-1, Z-2, Z-3, Top & Bottom & Bottom of Z-4	Adjust for maximum deflection (negative voltage reading).
6	—	"	"	"	"		DC VTVM to Junction of C-21 and R-22	Z-4 Top	Adjust for zero between positive and negative readings.
7	A 270 ohm carbon resistor	FM Terminals on Antenna strip	106 MC	400 CPS FM FM (22.5 KC deviation)	"	106 MC	DC VTVM to negative side of C-24 (8 mfd)	C-51	Adjust for maximum deflection (negative voltage reading).
8	"	"	90 MC	"	"	90 MC	"	L-7	Expand or compress for maximum deflection.
9	"	"	106 MC	"	"	106 MC	"	C 3-B C 3-D	Adjust for maximum deflection (negative voltage reading).
10	A 270 ohm carbon resistor	"	90 MC	400 CPS FM	"	90 MC	"	L-2 L-4	Expand or compress for maximum deflection.
11	Repeat Steps 9 & 10								

Voltage Reference Chart

TUBE		SOCKET PINS 1	2	3	4	5	6	7	8	9
V1	6DC6	–.7	.5	6.3AC	0	100	100	0	—	—
V2	6U8	125	–2.4	100	0	6.3AC	100	0	0	–4.4
V3	6BJ6	–.65	.75	0	6.3AC	95	95	0	—	—
V4	6BJ6	0	1	6.3AC	0	95	95	0	—	—
V5	6BJ6	–.1	1	6.3AC	0	95	95	0	—	—
V6	6AL5	2.4	–2.15	0	6.3AC	.2	0	.3	—	—
V7	6SC7	0	110	–.9	–1.1	110	0	AC Fil.*	AC Fil.*	—
V8	12AX7	225	25	65	AC Fil.*	AC Fil.*	140	0	1.5	AC Fil.*
V9	EL84	—	0	11	AC Fil.*	AC Fil.*	—	340	—	300
V10	EL84	—	0	11	AC Fil.*	AC Fil.*	—	340	—	300
V11	5U4GA	—	360	—	335 AC	—	335AC	—	360	—

* This voltage will vary with the setting of R-60 from 6.3AC to zero.

Notes: Line voltage set at 117 V., 60 cycles. Voltage readings may vary ± 10% under normal operating conditions. All voltages read with a vacuum tube voltmeter under no-signal conditions. Band switch set at FM. Volume control at minimum, bass control at minimum, treble control at maximum. All voltages read with respect to chassis. Readings are in positive volts, DC, unless otherwise specified.