

92-2

A PHOTOFACT STANDARD NOTATION SCHEMATIC  
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VOLTAGE READINGS						
Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 7
V 1 12BE6	4-28VDC	0V	24VAC	12VAC	85VDC	85VDC
V 2 12BA6	1-5VDC	0V	24VAC	38VAC	85VDC	85VDC
V 3 12AT6	1-5VDC	0V	24VAC	0V	85VDC	85VDC
V 4 50B5	1-5VDC	0V	24VAC	38VAC	85VDC	85VDC
V 5 35W4	1-5VDC	0V	24VAC	38VAC	85VDC	85VDC

1 TAKEN WITH VACUUM TUBE VOLTMETER

THE COOPERATION OF THE MANUFACTURER OF THIS  
RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

RESISTANCE READINGS

Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 7
V 1 12BE6	22KΩ	12Ω	11.5KΩ	1.5KΩ	1.5KΩ	2 Meg.
V 2 12BA6	2 Meg.	0Ω	24Ω	11.5KΩ	1.5KΩ	100Ω
V 3 12AT6	4.7 Meg.	0Ω	12Ω	0Ω	1 Meg.	2 Meg.
V 4 50B5	470KΩ	150Ω	38Ω	85Ω	100Ω	11.5KΩ
V 5 35W4	150Ω	150Ω	100Ω	100Ω	100Ω	500KΩ

† MEASURED FROM PIN 7 OF V5

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of 10% in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

## FADA MODEL 855



VOLUME CONTROL  
ON-OFF SWITCH

TUNING CONTROL

### FADA MODEL 855

TRADE NAME	Fada, Model 855					
MANUFACTURER	Fada Radio and Electric Co., Inc., 525 Main St., Belleville, New Jersey					
TYPE SET	AC-DC Operated Superheterodyne Receiver with Loop Antenna					
TUBES(FIVE)	Types 12BE6 Converter, 12BA6 IF Amp., 12AT6 DET-AVC-AF, 50B5 Power Output, 35W4 Rectifier					
POWER SUPPLY	105-125 Volts AC-DC		RATING .24 Amp. at 117 Volts AC			
TUNING RANGE—BROADCAST	530-1680KC					
ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT						
To set dial pointer turn tuning gang fully closed and set the pointer even with the left hand vertical edge of the backplate cutout.						
Use isolation transformer if available. If not connect a .1MFD capacitor in series with low side of signal generator and chassis.						
Loop should be maintained in same relative position to chassis as when receiver is in cabinet.						
Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.						
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.1MFD	High side to stator on rear section of tuning gang. Low side to chassis.	456KC (400 1/2 Mod.)	Tuning gang fully open	Across voice coil	A1, A2, A3, A4	Adjust for maximum output. If isolation transformer is not used, reduce dummy antenna to .001MFD to reduce hum modulation.
	Loop	1680KC	"	"	A5	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
	Loop	1500KC	Tune for max. output	"	A6	"

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DATE 4 - 50

SET 92

FOLDER 2

FADA  
MODEL 855

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		PMA BASE TYPE	INSTALLATION NOTES
		FADA PART No.	STANDARD REPLACEMENT		
V1	Converter	12BE6	12BE6	7CH	
V2	1F Amp.	12BA6	12BA6	7BK	
V3	DET.-AVC-AF	12AT6	12AT6	7BT	
V4	Power Output	50B5	50B5	7B2	
V5	Rectifier	35W4	35W4	5BQ	

CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING CAP. VOLT	REPLACEMENT DATA		SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
		FADA PART No.	AEROVOX PART No.		
C1A	30 150	22.45	P18A150/70-30	TA-330	Filter-Blue
B	30 150		P288-05	TM-15	Filter-Red
C2	0.05 200	12.11	CP220M	CP2K-220	AVC Filter
C3	220 220	17.22	P488-05	CP2K-220	Diode RF Filter
C4	0.005 400	12.19	P488-05	CP2K-220	Audio Coupling
C5	220 220	17.22	P488-05	CP2K-220	AF Amp. Plate Bypass
C6	0.01 400	12.6	P488-05	CP2K-220	Audio Coupling
C7	0.03 400	12.9	P488-05	CP2K-220	Output Plate Bypass
C8	0.05 400	12.12	P488-05	CP2K-220	Line Filter

CONTROLS

ITEM No.	RATING RESIST. WATTS	REPLACEMENT DATA		PART No.	INSTALLATION NOTES
		FADA PART No.	IRC PART No.		
R1A	1 Meg.	52.33	Q13-137	M-63-Z	Volume control
B	Switch		70-1	SW-A	Attach to R1A per instructions

RESISTORS

ITEM No.	RATING RESISTANCE WATTS	REPLACEMENT DATA		PART No.	IDENTIFICATION CODES
		FADA PART No.	IRC PART No.		
R2	220K	32.2	BTS-22K		Osc. Grid
R3	100K	32.33	BTS-1-100		1F Cathode
R4	1 Meg.	32.98	BTS-1 Meg.		AVC Network
R5	4.7 Meg.	32.98	BTS-4.7 Meg.		AF Grid
R6	220K	32.98	BTS-22K		AF Plate
R7	470K	32.98	BTS-470K		Output Grid
R8	150K	32.4	BW-1-150		Output Cathode
R9	1500K	32.47	BW-1-1500		Filter
R10	22K	32.123			Line Dropping Wire Wound

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING IMPEDANCE DC RES.	REPLACEMENT DATA		PART No.	INSTALLATION NOTES
		FADA PART No.	STANCOR PART No.		
T1	2-45K 3.40 1680 .50		A-3976	A-2928	† Blend mounting tabs down, file slots and remount on original bracket.

PARTS LIST AND DESCRIPTIONS (Continued)

SPEAKER

ITEM No.	RATINGS FIELD SW CONE DIA. V.C. DIA. 9/16"	REPLACEMENT DATA		PART No.	INSTALLATION NOTES
		FADA PART No.	JENSEN PART No.		
SP1	100	107.35	ST-113	MOD. P4-X	* Remount output transformer. Use universal mounting bracket provided.
SP2	100	107.35	ST-113	MOD. P4-X	

R F COILS

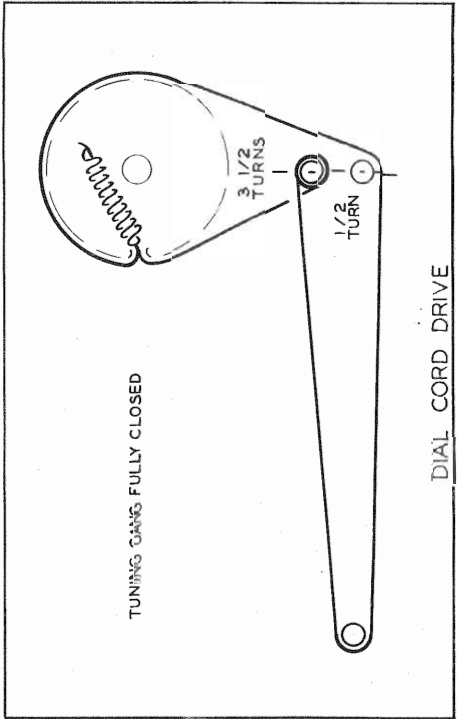
ITEM No.	USE	REPLACEMENT DATA		PART No.	INSTALLATION NOTES
		FADA PART No.	MEISSNER PART No.		
L1	Loop Ant.	107.35	37.146	14-1073	
L2	Osc. Coil	107.35	37.153	16-6678	
L3	1st IF	280	37.80	16-6678	
L4	2nd IF	280	37.80	16-6678	

DIAL LIGHTS

ITEM No.	BASE TYPE	VOLTS	AMPS.	REPLACEMENT DATA		NOTES
				FADA PART No.	BEAD COLOR	
M1	Bayonet	8-8	.15	122.1	Brown	Type #47

MISCELLANEOUS

ITEM No.	PART NAME	FADA PART No.	NOTES
M2	2 Gang Var. Cap.	97.43	
	Dial Pointer	97.151	(35-44 (MMF, 37-212MMF)
	Cabinet	97.151W	Walnut
	Cabinet	97.151V	Walnut
	Cabinet	97.151M	Walnut
	Knob	142-25V	Walnut
	Knob	142-25V	Walnut
	Knob	142-25M	Walnut



CHASSIS—BOTTOM VIEW

