

Fada Radio & Electric Co., Inc.

Model: 365

Chassis:

Year: Pre October 1938

Power:

Circuit:

IF:

Tubes:

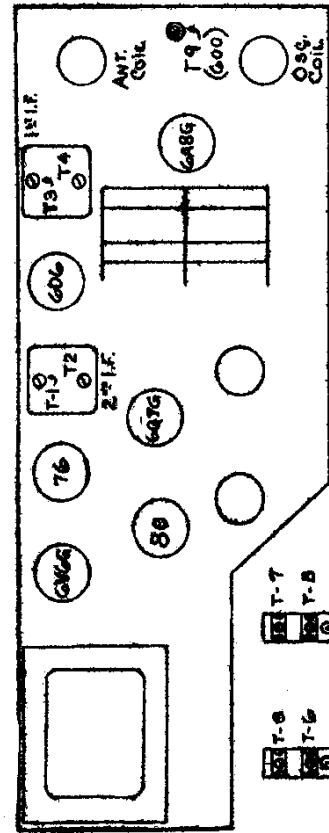
Bands:

Resources

Riders Volume 9 - FADA 9-6

Riders Volume 10 - FADA 10-15

MODEL 365
 MODELS 366, 366PT
 Alignment, Voltage
 Socket, Trimmers



ALIGNMENT LAYOUT

CONTINUITY AND VOLTAGE READINGS ON

SEE INDEX FOR MODEL 365 SCHEMATIC
 Line voltage 115 A.C. - Input watts - 56

WAVE BAND	DIAL FREQUENCY	GENERATOR FREQUENCY	IMAGE FREQUENCY	HUMBY ANTENNA	GENERATOR CONNECTED TO	ADJUST TRIMMER
B.C.	1000 KC	456 KC	---	.001 mfd., 50,000 ohms	Control grid of 6D6 tube	T-1, T-2
B.C.	1000 KC	456 KC	---	.001 mfd., 50,000 ohms	Control grid of 6A8G tube	T-3, T-4
S.W.	15.0 MC	15.0 MC	15.9 MC	400 ohm resistor	Yellow antenna lead	T-5, T-6
S.W.	6.0 MC	6.0 MC	---	400 ohm resistor	Yellow antenna lead	Check Tracking
M.O.	1500 KC	1500 KC	---	200 mfd. condenser	Yellow antenna lead	T-7, T-8
B.B.	400 KC	600 KC	---	200 mfd. condenser	Yellow antenna lead	T-9

*To insure perfect alignment it is necessary to "rock" the ganged variable condenser in order to follow the maximum signal output.

VOLTAGE ACROSS ELECTROLYTIC CONDENSERS

1st Section	2nd Section	3rd Section
312	240	105

Voltage across speaker field ----- 73 volts

- VOLUME CONTROL MAXIMUM.
- ATTENUATE SIGNAL TO CONTROL SIGNAL OUTPUT.
- CONNECT PROPER DUMMY ANTENNA, FOR EACH ADJUSTMENT, IN SERIES WITH HIGH POTENTIAL SIDE OF SIGNAL GENERATOR. FOR .001 MFD. CONDENSER, USE PAPER TUBULAR TYPE (400V); FOR 200 MFD., MICA; 400 and 50,000 ohm resistors, CARBON 1/3 WATT.
- GROUND LOW POTENTIAL SIDE OF SIGNAL GENERATOR.
- FOR ADJUSTING THE I.F. TRIMMER CONDENSERS, THE CONTROL GRID SHOULD BE REMOVED AND A 50,000 OHM RESISTOR INSERTED IN SERIES WITH SAME. THEN CONNECT THE HIGH POTENTIAL LEAD OF THE SIGNAL GENERATOR THROUGH THE .001 MFD. CONDENSER DIRECTLY TO THE CONTROL GRID CAP OF THE TUBE.
- REPEAT ALL ADJUSTMENTS.
- TO DETERMINE THAT THE SHORT WAVE BAND SHUNT TRIMMER HAS NOT BEEN ADJUSTED TO THE IMAGE FREQUENCY, TURN THE DIAL TO THE FREQUENCY LISTED UNDER IMAGE FREQUENCY WHERE A SIGNAL WEAKER THAN THE FUNDAMENTAL SHOULD BE NOTED. HOWEVER, IF NO SIGNAL CAN BE HEARD AT THIS SETTING EVEN WITH GREATER SIGNAL GENERATOR OUTPUT, THE TRIMMER HAS BEEN IMPROPERLY ADJUSTED AND IT WILL BE NECESSARY TO READJUST TO THE PROPER PEAK.

ALIGNMENT TABLE

TYPE TUBE	POSITION OF TUBE	PLATE MA	CATHODE	SCREEN	VOLTS GRID VOLTAGE
6A8G	1st Detector	235	1.9	---	1.3
6D6	Oscillator	86	2.2	---	---
76	Int. Freq.	235	9.4	---	3.0
6X7G	2nd Detector	127	1	---	13.0
6V6G	A.V.C.	---	---	---	---
80	1st Audio	67	1	---	1.3
	Pwr. Pentode Rectifier	220	41.0	---	10.5
		---	55.0 TOTAL	---	---

These readings were taken with a 1,000 ohm per volt meter and are not indicative of effective voltages. Above readings taken with a 105.89 speaker in circuit.

SPEAKER D.C. RESISTANCE VALUES

PAPER NO.	FIELD COIL	AUDIO TRANS.	PRI.	AUDIO TRANS.	SEC.	V.C.
105.89	1,100*	210*	---	---	.5**	3.0
105.91A	1,100*	220*	---	---	.8**	3.0

* These are cold D.C. resistance values.

** This reading includes resistance of hum bucking coil.