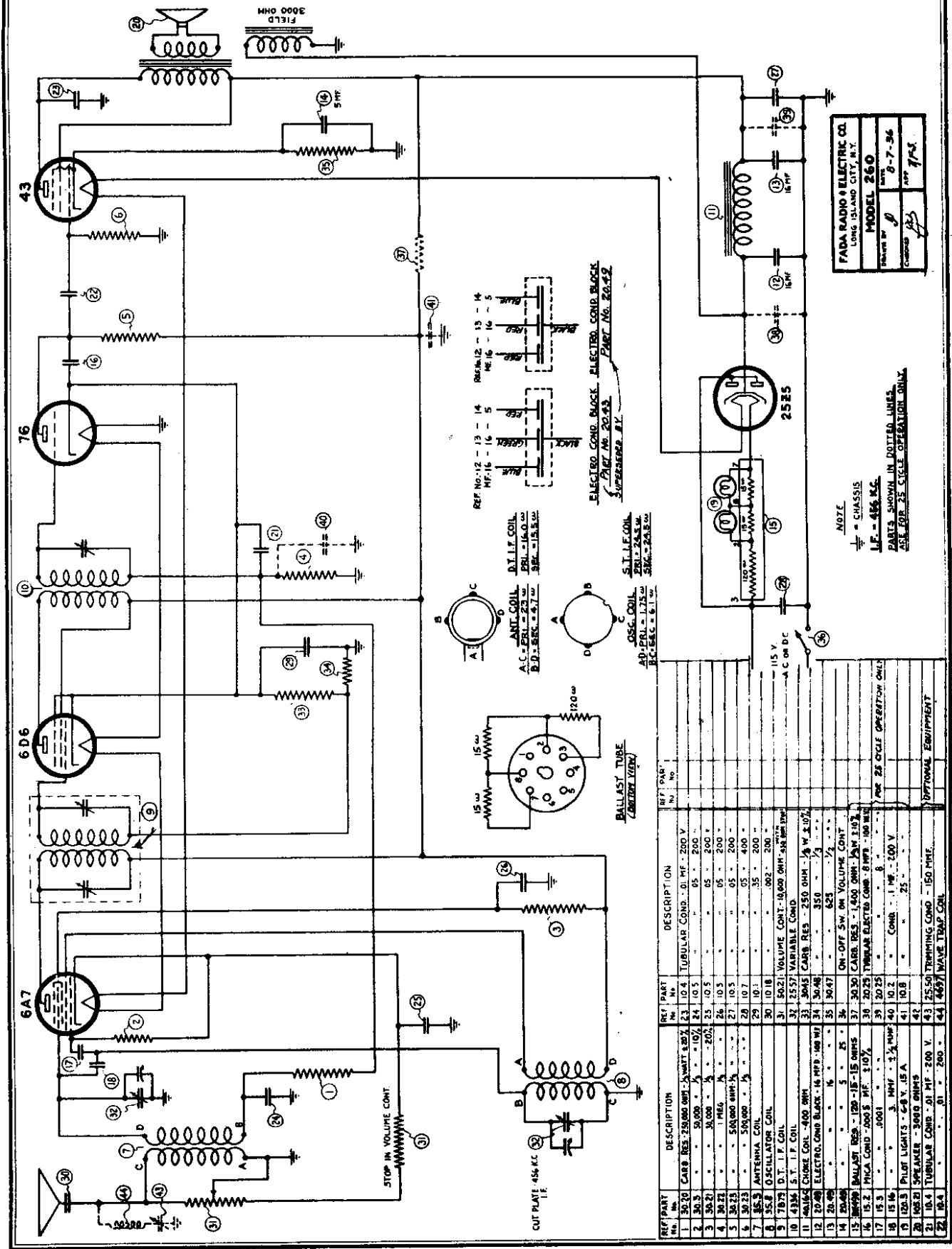
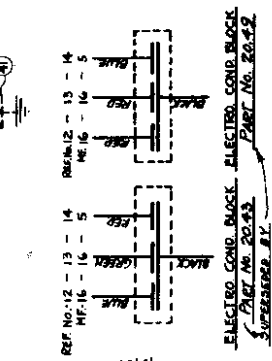


FADA RADIO & ELECTRIC CORP.

MODEL 260
Schematic
Parts

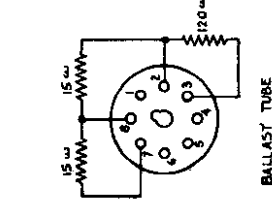


FADA RADIO & ELECTRIC CO.
LONG ISLAND CITY, N.Y.
MODEL 260
DRAWN BY J.P.
DATE 8-7-36
CHECKED BY J.P.



ELECTRO COND. BLOCK PART No. 20-42
SUPERSEDES E.T.
ELECTRO COND. BLOCK PART No. 20-42
SUPERSEDES E.T.
ANT. COIL
A.C. - PRL = 23 Ω
D.D. - RES. = 4.7 Ω
D.T. I.F. COIL
PRL = 16.0 Ω
RES. = 15.5 Ω
OSC. COIL
PRL = 24.5 Ω
RES. = 24.5 Ω
S.T. I.F. COIL
PRL = 1.75 Ω
RES. = 24.5 Ω

NOTE
⊥ = CHASSIS
L.F. = 455 KC.
PARTS SHOWN IN DOTTED LINES
ARE FOR 25 CYCLE OPERATION ONLY.



REF. PART NO.	DESCRIPTION	REF. PART NO.	DESCRIPTION
1	30-30 CARB. RES. 3000 OHMS - 1/2 WATT - 5% TOL.	23	10-4 TUBULAR COND. - 0.1 MF. - 200 V.
2	30-30 CARB. RES. 3000 OHMS - 1/2 WATT - 5% TOL.	24	10-5 TUBULAR COND. - 0.1 MF. - 200 V.
3	30-30 CARB. RES. 3000 OHMS - 1/2 WATT - 5% TOL.	25	10-5 TUBULAR COND. - 0.1 MF. - 200 V.
4	30-30 CARB. RES. 3000 OHMS - 1/2 WATT - 5% TOL.	26	10-5 TUBULAR COND. - 0.1 MF. - 200 V.
5	30-30 CARB. RES. 3000 OHMS - 1/2 WATT - 5% TOL.	27	10-5 TUBULAR COND. - 0.1 MF. - 200 V.
6	30-30 CARB. RES. 3000 OHMS - 1/2 WATT - 5% TOL.	28	10-5 TUBULAR COND. - 0.1 MF. - 200 V.
7	15-15 CARB. RES. 15000 OHMS - 1/2 WATT - 5% TOL.	29	10-1 ANTENNA COIL
8	15-15 CARB. RES. 15000 OHMS - 1/2 WATT - 5% TOL.	30	10-18 OSCILLATOR COIL
9	15-15 CARB. RES. 15000 OHMS - 1/2 WATT - 5% TOL.	31	2557 VARIABLE COND.
10	400 OHM VARIABLE CAP.	32	2557 VARIABLE COND.
11	400 OHM VARIABLE CAP.	33	30-45 CARB. RES. - 250 OHMS - 1/2 W. - 5% TOL.
12	20-40 ELECTRO. COND. BLACK - 14 MF. - 100 V.	34	30-48 CARB. RES. - 350 OHMS - 1/2 W. - 5% TOL.
13	20-40 ELECTRO. COND. BLACK - 14 MF. - 100 V.	35	30-47 CARB. RES. - 625 OHMS - 1/2 W. - 5% TOL.
14	20-40 ELECTRO. COND. BLACK - 14 MF. - 100 V.	36	ON-OFF SW. ON VOLUME CONT.
15	20-40 ELECTRO. COND. BLACK - 14 MF. - 100 V.	37	30-30 CARB. RES. - 1400 OHMS - 1/2 W. - 5% TOL.
16	15-15 CARB. RES. 15000 OHMS - 1/2 WATT - 5% TOL.	38	2557 VARIABLE COND.
17	15-15 CARB. RES. 15000 OHMS - 1/2 WATT - 5% TOL.	39	2557 VARIABLE COND.
18	15-15 CARB. RES. 15000 OHMS - 1/2 WATT - 5% TOL.	40	10-2 TUBULAR COND. - 0.1 MF. - 200 V.
19	15-15 CARB. RES. 15000 OHMS - 1/2 WATT - 5% TOL.	41	10-2 TUBULAR COND. - 0.1 MF. - 200 V.
20	3000 OHM SPEAKER - 6.8 V. - 0.5 A.	42	2557 VARIABLE COND.
21	10-4 TUBULAR COND. - 0.1 MF. - 200 V.	43	2550 TRIMMING COND. - 150 MME.
22	10-4 TUBULAR COND. - 0.1 MF. - 200 V.	44	4697 WAVE TRAP COIL

MODEL 260

**Alignment, Voltage
Socket, Trimmers**

FADA RADIO & ELECTRIC CORP.

ALIGNING INSTRUCTIONS FOR

MODEL 260 SERIES

In order to adjust accurately the various trimmer condensers of the receiver in accordance with the following instructions, it is essential to use a shielded signal generator capable of giving a modulated carrier which can be attenuated at 456 KC and 1500 KC.

This receiver is equipped with an automatic overload control which necessitates setting the manual volume control of the receiver to the maximum position, to assure accuracy in alignment. To control the signal output of the receiver it will be necessary to use the attenuator control of the signal generator.

NOTE: Do not remove knobs, screws or chassis from the cabinet before removing the line cord plug from the power line socket. If the above precaution is not followed a severe electric shock, or damage to the receiver, may result.

ADJUSTMENT OF I.F. CONDENSERS

The three (3) intermediate frequency (I.F.) condensers are located as shown in the sketch.

- 1st - Turn the rotor plates of the ganged variable condenser to a position where no broadcast station carrier is heard. If this is not possible, connect a .1 mfd. tubular condenser from the oscillator stator section (see sketch) of the ganged variable condenser to chassis.
- 2nd - Disconnect the control grid lead from the 6A7 oscillator-modulator tube.
- 3rd - Connect the high potential lead of the signal generator to the control grid of the 6A7 oscillator-modulator tube, and the low potential lead to the receiver chassis.
- 4th - Place an output meter (copper oxide type) across the speaker voice coil terminals so that variations in signal output can be noted.
- 5th - Place the signal generator in operation and adjust the carrier frequency to 456 KC. Regulate the attenuator control of the signal generator so that the output signal is low enough to insure accuracy in adjusting the I.F. condensers.
- 6th - With the aid of a bakelite type screw driver, adjust the three (3) I.F. condensers to resonance as indicated by the greatest swing of the needle on the output meter.

ADJUSTMENT OF THE GANGED VARIABLE CONDENSER

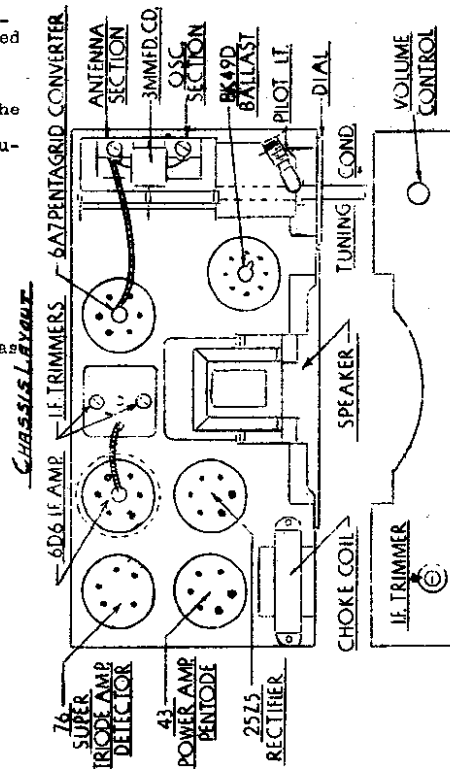
The compensators are located at the top of their respective tuning condenser section and can be adjusted with the aid of a screw drive

- 1st - Remove signal generator connection from control grid of 6A7 oscillator-modulator tube and replace control grid lead.
- 2nd - Connect the antenna wire of the receiver to the high potential lead of the signal generator through a 250 mmfd. condenser.
- 3rd - Adjust the carrier frequency of the signal generator to 1500 KC.
- 4th - Set the dial pointer directly at "E" in the word "POLICE" with the ganged variable condenser rotor plates open.
- 5th - Rotate the receiver dial to read 1500 KC.
- 6th - Starting with the compensator nearest the front of the receiver, adjust each compensator (as indicated on sketch) for maximum signal output. Do not disturb the setting of the gang condenser during these operations.

Voltage across 3,000 ohm speaker field 128 volts
 " " 300 " filter choke 15.5 "

DC RESISTANCE VALUES

	PRIMARY	SECONDARY
35.3 Antenna coil	23.0 ohms	4.7 ohms
35.8 Oscillator coil	1.75 "	6.1 "
7B79 1st I.F. trans.	15.0 "	15.0 "
4336 2nd I.F. trans.	25.0 "	25.0 "
40.16C Filter choke	400.0 "	"
105.21 Speaker input audio trans.	340.0 "	.5 "
105.21 Speaker field	3000.0 "	"
105.21 Speaker voice coil	3.0 "	"



CONTINUITY AND VOLTAGE READINGS ON

MODEL 260 SERIES

Line Voltage - 119 v. A.C. Input watts - 48

TYPE OF TUBE	POSITION OF TUBE	PLATE VOLTS	PLATE MA	CONTROL GRID VOLTS	SCREEN GRID VOLTS
6A7	1st Det. Osc.	108	1.4	2.6**	54
6D6	I.F. Amp.	108	8.4	2.6	108
76	2nd Det.	364	.08	5.2**	--
43	Pwr. Pentode	90	20.0	15.0**	97
25Z5	Rectifier	--	78. TOTAL	---	--

* These readings were taken with a 1,000 ohm per volt meter and are not indicative of effective voltages.

** Correct readings cannot be obtained at control grid due to series resistors. To be measured across each respective bias resistor.

VOLTAGES ACROSS ELECTROLYTIC CONDENSER (part #20.49)

1st section 128
 112