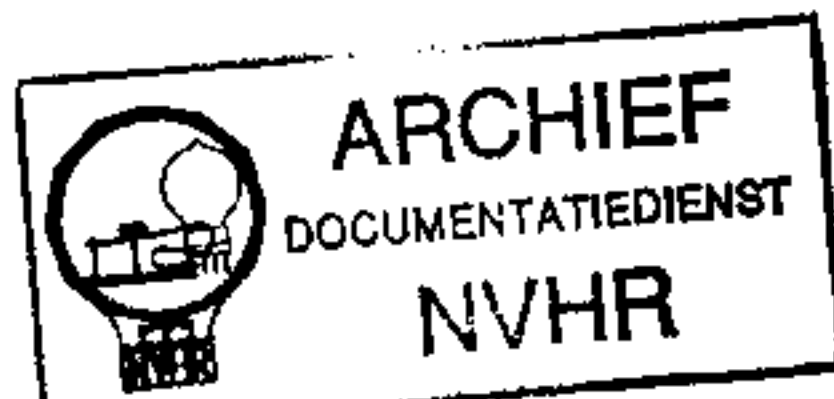


POWER CONTROL

VOLUME CONTROL

FADA MODEL 609W

Ned. Ver. v. Historie v/d



ARCHIEF
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NVHR

TRADE NAME Fada, Models 609, 610 Series
MANUFACTURER Fada Radio & Electric Co. Inc. - 30-20 Thomson Ave. - Long Island City, New York
TYPE SET AC - DC Superheterodyne - Self Contained Loop Antenna
TUBES (FIVE) Types 12SA7GT/G Mixer, 12SK7GT/G IF Amp., 12SQ7GT/G Det.-AVC-AF, 50L6GT Power Output, 35Z5GT Rectifier

POWER SUPPLY 117 Volts AC-DC Rating .245 Amp., @ 117 Volts AC
TUNING RANGE-BROADCAST 528-1680 KC
SHORT WAVE

ALIGNMENT INSTRUCTIONS

| DUMMY ANTENNA * | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | RADIO DIAL SETTING | OUTPUT METER | ADJUST | REMARKS |
|--|--|----------------------------|---------------------------------|-------------------|--------------|---------------------------------------|
| .001 | High side to signal grid of 12SA7. Low side to chassis | 456KC | Quiet point at high end of dial | Across voice coil | A1, A2 A3 | Adjust for maximum output. See Note A |
| | Loop | 1680KC | Full C.C.W. (min. cap.) | | A4 | Adjust for maximum output. See Note B |
| | | 1400KC | Tune to signal | | A5 | Adjust for maximum output. See Note B |
| <p>Note A - Use isolation transformer if available. If not, isolating capacitor must be connected between receiver chassis and signal generator ground lead.</p> <p>Note B - Connect signal generator to loop of few turns of wire and couple loosely to receiver loop by spacing.</p> | | | | | | |

Volume control at maximum volume and output from signal generator as low as possible for all adjustments. Use insulated alignment screwdriver.

PARTS LIST AND DESCRIPTIONS

TUBES

| ITEM No. | USE | REPLACEMENT DATA | | RMA BASE TYPE | INSTALLATION NOTES |
|----------|--------------|------------------|----------------------|---------------|--------------------|
| | | FADA PART No. | STANDARD REPLACEMENT | | |
| 1 | Mixer | 12SA7GT/G | 12SA7GT/G | 8AD | |
| 2 | IF Amp. | 12SK7GT/G | 12SK7GT/G | 8N | |
| 3 | Det.-AVC-AF | 12SQ7GT/G | 12SQ7GT/G | 8Q | |
| 4 | Power Output | 50L6GT/G | 50L6GT/G | 7AC | |
| 5 | Rectifier | 35Z5GT/G | 35Z5GT/G | 6AD | |

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 | | REPLACEMENT DATA | | | | | IDENTIFICATION CODES AND INSTALLATION NOTES | |
|----------|--------|------|------------------|------------------|----------------|------------------|------------------|---|---------------------------|
| | CAP. | VOLT | FADA PART No. | MALLORY PART No. | SOLAR PART No. | SPRAGUE PART No. | AEROVOX PART No. | | CORNELL-DUBILIER PART No. |
| 6 (A) | 40 | 150 | 22.1 | FP357 | DY-3X40-150 | EL-340 | AF844D | UP6CJ44 | ■ Filter |
| (B) | 30 | 150 | | | | | | | ▲ " " |
| (C) | 20 | 150 | | | | | | | - " " |
| 7 | .05 | 400 | 12.12 | TP426 | S-4-05 | TC-15 | 484-.05 | DT4S5 | Line Bypass |
| 8 | .03 | 400 | 12.9 | TP424 | S-6-03 | TC-13 | 484-.03 | DT4S3 | 50L6 Plate Bypass |
| 9 | .02 | 400 | 12.8 | TP423 | S-4-02 | TC-12 | 484-.02 | DT4S2 | Audio Coupling |
| 10 | .005 | 600 | 12.4 | TP408 | S-6-005 | TC-25 | 684-.005 | DT6D5 | " |
| 11 | .05 | 200 | 12.11 | TP426 | S-4-05 | TC-15 | 484-.05 | DT4S5 | 12SK7 Cath. Bypass |
| 12 | .05 | 200 | 12.11 | TP426 | S-4-05 | TC-15 | 484-.05 | DT4S5 | AVC Filter |
| 13 | 250 | 500 | 17.8 | MC240 | MO.5-325 | 1FM-325 | 1468-.00025 | 5W5T25 | 12SQ7 Plate Bypass |
| 14 | 100 | 500 | 17.5 | MCB235 | MOS.5-31 | MS-31 | 1469-.0001 | 5R5T1 | Osc. Grid Cond. |

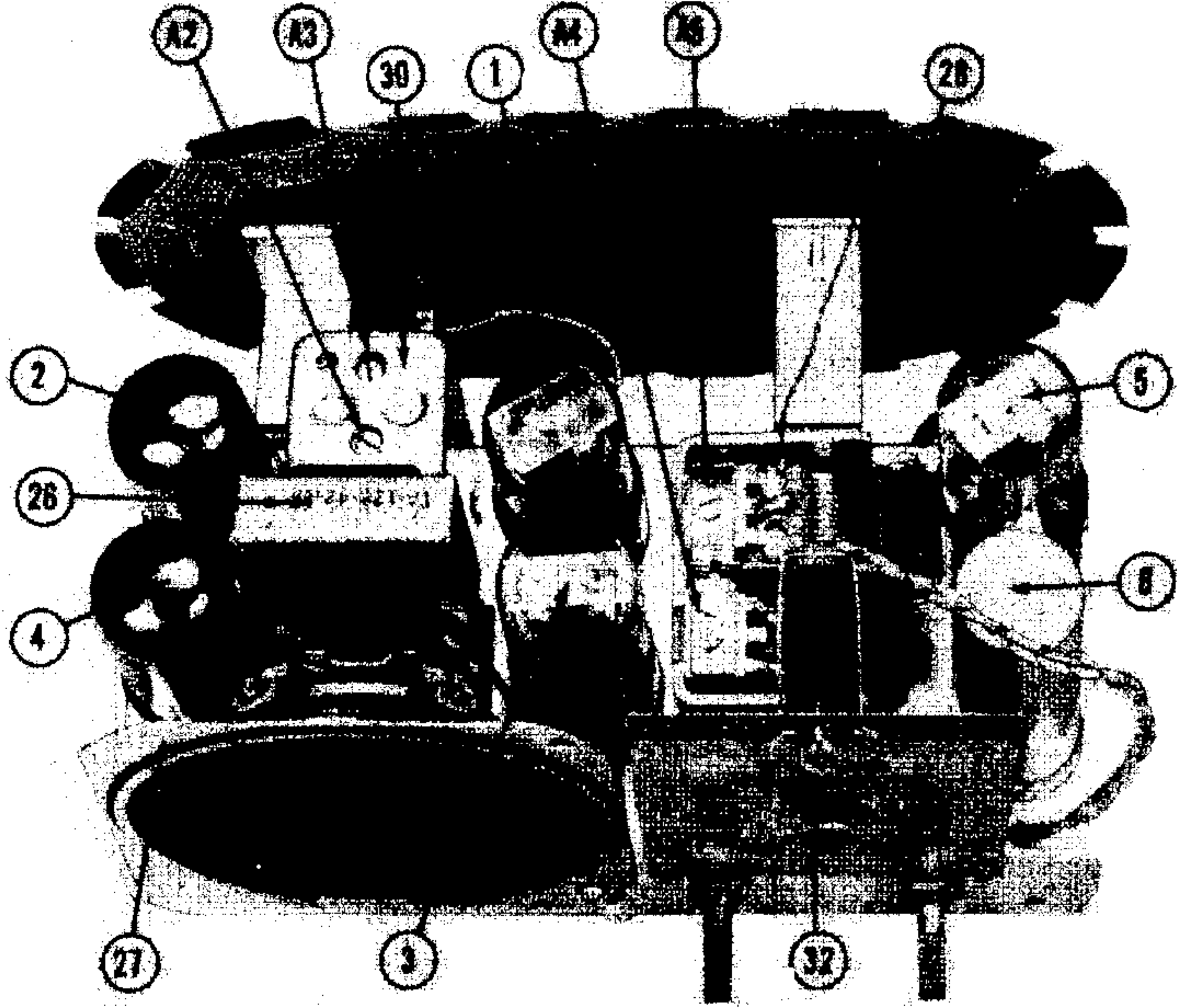
CONTROLS

| ITEM No. | RATING | | REPLACEMENT DATA | | | | INSTALLATION NOTES |
|----------|------------|-------|------------------|------------------|--------------|--------------------|---------------------------------|
| | RESISTANCE | WATTS | FADA PART No. | MALLORY PART No. | IRC PART No. | CLAROSTAT PART No. | |
| 15 (A) | 500K | 1 | 52.1 | MR48 | DS13-133 | M-60-Z | Volume Attach to 15A per instr. |
| (B) | Switch | | Not Req. | MR26 | 41 | SW-A | |

RESISTORS

| ITEM No. | RATING | | REPLACEMENT DATA | | IDENTIFICATION CODES |
|----------|-----------------|---------------|------------------|------------------------|-----------------------------|
| | RESISTANCE | WATTS | FADA PART No. | IRC PART No. | |
| 16 | 22K Ω | $\frac{1}{2}$ | 32.13 | BTS-22K | Red-Red-Or. Osc. Grid |
| 17 | 100 Ω | $\frac{1}{2}$ | 32.2 | BW- $\frac{1}{2}$ -100 | Br.-Blk.-Br. IF Cathode |
| 18 | 1 Meg. Ω | $\frac{1}{2}$ | 32.23 | BTS-1 Meg. | Br.-Blk.-Grn. AVC Network |
| 19 | 3.9 Meg. | $\frac{1}{2}$ | 32.26 | BTS-3.9 Meg. | Or.-Wh.-Grn. 1st AF Grid |
| 20 | 220K Ω | $\frac{1}{2}$ | 32.18 | BTS-220K | Red-Red-Yl. Plate load |
| 21 | 470K Ω | $\frac{1}{2}$ | 32.20 | BTS-470K | Yl.-Vl.-Yl. Output Grid |
| 22 | 130 Ω | $\frac{1}{2}$ | 32.3 | BW- $\frac{1}{2}$ -130 | Br.-Or.-Br. Output Cathode |
| 23 | 200 Ω | 1 | 32.27 | BW-1-200 | Red-Blk.-Br. Filter |
| 24 | 1200 Ω | 1 | 32.29 | BW-1-1200 | Br.-Red-Red Filter |
| 25 | 30 Ω | 1 | 117.1 | BW-1-30 | Or.-Blk.-Blk. Line Dropping |

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS

TRANSFORMER (OUTPUT)

| ITEM No. | RATING | | | | REPLACEMENT DATA | | | | INSTALLATION NOTES |
|----------|---------------|---------------|--------------|--------------|------------------|------------------|-------------------|---------------|--|
| | IMPEDANCE | | DC RES. | | FADA PART No. | STANCOR PART No. | THORDARN PART No. | UTAH PART No. | |
| | PRI. | SEC. | PRI. | SEC. | | | | | |
| 26 | 2370 Ω | 3.95 Ω | 162 Ω | .71 Ω | 42.1 | A3876 \dagger | T13842 \dagger | 8775* | \dagger Mounting Bracket must be fabricated. * Bend mounting tabs down and mount by original bracket. |

SPEAKER

| ITEM No. | RATINGS | | REPLACEMENT DATA | | | INSTALLATION NOTES |
|----------|-----------------------------|--|------------------|-----------------|---------------|--|
| | | | FADA PART No. | JENSEN PART No. | UTAH PART No. | |
| 27 | FIELD FM CONE DIA. 4" | VC IMP. 3.95 Ω VC DIA. $\frac{1}{2}$ " | 107.11 401M | ST-540 | 4PZ | Special cone adjustment feature. Replace with duplicate part. |

R F COILS

| ITEM No. | USE | DC RES. | | REPLACEMENT DATA | | INSTALLATION NOTES |
|----------|-----------|-------------|-------------|------------------|-------------------|--------------------|
| | | PRI. | SEC. | FADA PART No. | MEISSNER PART No. | |
| 28 | Loop Ant. | 1 Ω | | 37.2 | | |
| 29 | Obc. | .5 Ω | 5 Ω | 37.1 | | |
| 30 | Input IF | 20 Ω | 20 Ω | 37.3 | 16-6658 | |
| 31 | Output IF | 23 Ω | 23 Ω | 37.4 | | |

DIAL LIGHT

| ITEM No. | BASE TYPE | VOLTS | AMPS. | BEAD COLOR | REPLACEMENT DATA | | INSTALLATION NOTES |
|----------|-----------|-------|-------|------------|------------------|--|--------------------|
| | | | | | FADA PART No. | | |
| 32 | Brown | 6-8 | 0.15 | Brown | 122-1 | | \dagger 47 |

CHASSIS—BOTTOM VIEW

