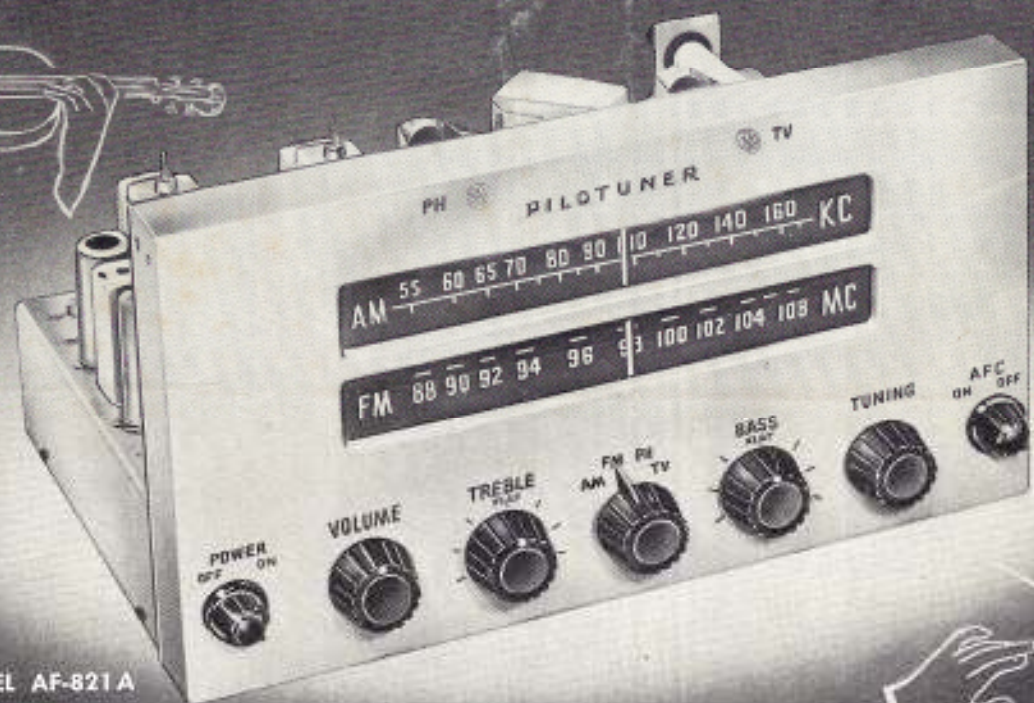


# Completely NEW PILOTONE

HIGH FIDELITY *Pilot* FM-AM RADIO TUNER



MODEL AF-821A

The newest, most advanced tuner that makes the finest in high fidelity reception available to all music lovers. The PILOTONE is engineered for the ultimate in performance and dependability . . . circuits are designed to achieve the highest selectivity and sensitivity and the greatest stability in operation . . . the culmination of over 30 years of pioneering firsts by PILOT, leaders in electronics, FM and Short Wave Radio.

## GENERAL SPECIFICATIONS:

- Self-contained power supply for use on 117 Volt 60 Cycle AC lines.
- Power consumption - 50 Watts.
- Slide Rule dial with selectively illuminated scales.
- Separate audio inputs for phono and TV operation controlled by bandswitch. Two pilot light jewels indicate these positions of the bandswitch.
- A two-stage audio amplifier with bass and treble tone control circuits.
- With tone controls in flat position, audio-frequency response is within  $\pm 2$  db.
- Audio output impedance - 7,000 ohms - to permit use of up to 20 ft. of interconnecting leads for remote operation of audio amplifier without loss of fidelity. Maximum undistorted audio output is 4 volts.
- A two-stage preamplifier properly equalized for use with variable reluctance cartridges. A switch is provided on the chassis to bypass the preamplifier for use with crystal cartridges.
- Self-contained and fully enclosed front panel assembly. Beautiful bronze finish completely impervious to fingerprints. Unit can be left in open on shelf or table, or mounted easily in single large rectangular opening in front of cabinet.
- Bandpass RF stage for improved sensitivity and selectivity.
- Sensitivity is 10 microvolts for 20DB quieting.
- Temperature compensated oscillator for minimum station drift.
- Automatic Frequency Control. (AFC) for ease in tuning. A switch is provided for turning off the AFC to tune in a weak station close to a strong station.
- IF response is 200 Kc. wide at 6 db. points.
- Ratio detector response is linear for 190 Kc.
- Tuning range 88 to 108 megacycles.
- Fully shielded against oscillator radiation to conform with FCC radiation specifications.

## AM CHARACTERISTICS:

- Built-in high efficiency ceramic-powdered iron loop stick antenna.
- Separate three-gang tuning condenser.
- Tuned RF stage for maximum sensitivity and selectivity.
- Sensitivity is 10 microvolts for .5 volt audio output.
- IF wave trap for rejection of signals in the IF passband.
- IF Response is 9 Kc. wide at 6 db. points.
- Tuning range 540-1700 kilocycles.

**OVERALL DIMENSIONS** - 14 1/4" wide x 7 1/4" high x 8 1/2" deep behind panel. Shipping weight - approximately 10 pounds.

Net price - **\$99.95**



Rear view

## TUBE COMPLEMENT:

6BA6	RF Amplifier
6UB	Oscillator, mixer
6BA6	1st I.F. Amplifier
6AU6	2nd I.F. Amplifier, AM detector
6AL5	FM Ratio Detector
12AY7	Audio Preamplifier
12AU7	Audio Amplifier
6AB4	Automatic Frequency Control
6X5GT	Power Rectifier

## FM CHARACTERISTICS:

- 900 Ohm antenna input.
- Built-in line antenna.

Companion unit available - Pilotone High Fidelity Amplifier Model AA-901



# PILOT High Fidelity



# PILOTONE Amplifiers



PILOTONE AMPLIFIER

Model AA-902

The new Pilotone Amplifier Model AA-902 is a compact, medium price, high fidelity unit intended for use where cabinet or other mounting space is limited. It can be operated with the Pilotuner Model AF-821 and similar tuners for FM-AM radio, television or phonograph reproduction.

### GENERAL SPECIFICATIONS AND PERFORMANCE:

- Power output rating, 10 watts at less than 1% distortion
- Frequency response, plus or minus 1 DB from 15 to 40,000 cps at 10 watts
- Output impedance, 4, 8 and 16 ohms
- Uses one 6C4 voltage amplifier tube, one 12AU7 as amplifier and phase inverter, two 6V6's as push-pull output and one 5Y3GT as rectifier
- Overall dimensions - 14 1/2" long, 4 1/2" wide and 5 1/2" high
- Chassis has protective bottom plate
- Weight approximately 13 lbs.

Model AA-902 Net Price - \$42.50

### PILOTONE AMPLIFIER Model AA-901

#### GENERAL SPECIFICATIONS

- Full Williamson circuit. Designed for high-fidelity audio reproduction from phonograph, AM or FM radio, television or microphone input.
- For use on 117 volt, 60 cycle AC lines.
- Power consumption - 140 watts.
- Contains 4 amplifier tubes and 1 rectifier tube.
  - 1-6SN7GT - Audio Amplifier and Phase Inverter
  - 1-6SN7GT - Push-Pull Audio Amplifier
  - 2-KT66 - Push-Pull Power Output
  - 1-5U4G - Power Rectifier
- Supplied with bottom plate and equipped with rubber feet.
- Supplied with operating instructions and schematic diagram.
- Companion units available:
  - Pilotone Model PA-911 Preamplifier
  - Pilotuner Model AF-821 AM-FM Tuner
- Power output socket to supply power for Pilotone Model PA-911 Audio Preamplifier.
- Balancing control corrects for slight inequalities in the KT66 output tubes.



- Overall dimensions - 14" wide x 7" deep x 7 1/2" high.
- Shipping weight - 25 pounds.

#### PERFORMANCE:

- Maximum power output - 15 watts.
- Total harmonic distortion - less than .1% at 10 watts output.
- Intermodulation distortion - less than 3% at 10 watts (50 and 7000 cps. 4/1 ratio)
- Frequency response plus or minus 1DB, 15 cps. to 50 KC at 15 watts
- Hum and noise level - 90 db. below full rated output.
- Sensitivity - 1 volt RMS for 10 watts (input resistance 470,000 ohms)
- Speaker output - 8 and 16 ohms
- Negative feedback - 20 db
- Phase shift, plus or minus 10 degrees, 20 to 20,000 cps.

Model AA-901

Net Price - \$99.50



Model PA-911

Net price - \$29.95

### PILOTONE PRE-AMPLIFIER MODEL PA-911

#### GENERAL SPECIFICATIONS:

- Designed as companion unit for Pilotone Amplifier Model AA-901.
- Selector switch allows quick choice of auxiliary, TV, radio or phono inputs. Three positions of switch for phono input give proper compensation for records made to Audio Engineering Society (AES), National Association of Broadcasters (NAB) and foreign standards.
- Eight input jacks on back of panel permit quick connection of various types of inputs: auxiliary; TV, high and low level; radio, high and low level; phono pick-up, high and low level magnetic cartridges; and microphone.
- Shipping weight - approximately 6 lbs.

- Full bass and treble controls, with "flat" positions at center settings of control knobs.

- Separate microphone input control permits voice to be superimposed on radio, television or phonograph reproduction for novelty effects. This volume control has built-in switch, cutting off microphone completely when knob is turned to extreme left.

- Flexible cable plugs into power take-off socket on back of Pilotone Amplifier Model AA-901. Switch on bass knob controls power for both units. Pilot light on front panel. No extra wiring required.

- Attractively housed in Hammer-tone Bronze finish cabinet, measuring 12" long by 5 1/2" by 5 1/2".
- Uses one 12AX7 and two 12AX7 tubes.

PILOT RADIO CORP., LONG ISLAND CITY, NEW YORK