

| DATE ANNOUNCED | CLASS OF EQUIPMENT | NO. TUBES | LIST PRICE | SPECIAL FEATURES | QUANTITY MADE | CATALOG NUMBER | |
|----------------|-----------------------|-----------|------------|---------------------|---------------|----------------|-----------|
| | | | | | | ACTUAL | CONVERTED |
| 7/47 | De Luxe Custom Radios | 33 | \$2500.00 | Berkshire Secretary | 336-1948 | B-3 | 3 |



The BERKSWIRE SECRETARY (Model B-3)

Services: Radio-Phonograph

Tuning Ranges:

AM (eight ranges)

Standard Broadcast Band

1.590 to 4.050 mc

3.950 to 9.500 mc (49-meter band included in this range)

13, 16, 19, 25, 31-meterbands (overlapping permits full coverage to 22.5 megacycles)

FM - Continuous tuning from 88 to 108 megacycles

OPERATING POWER:

115 volts, 60 cycles

OUTPUT POWER:

Power and connections available for four 10-watt loudspeakers

Number of Tubes

AM Tuner-

6BA6-5

6BE6-1

6C4-1

6AL5-1

FM Tuner-

6AK7-3

6J6-2

6AU6-1

6BA6-4

6AL5-1

Audio and Power Supply-

6C4-3

12AU7-1

6SQ7-1

6J5-1

6L6G-4

5U4G-2

VR-150-1

6SL7GT-1

Cabinet:

Finest mahogany veneers on 5 ply laminated construction
Designed by William Millington of Baker Furniture, Inc.

Dimensions:

Height 85"; width 72"; depth 23 $\frac{3}{4}$ "

Weight 545 lbs.

List Price: \$2500.00 (Eastern)

2600.00 (Western)

Features and Specifications of Components

CONTROLS

Automatic push-button Range Selector

Automatic Push-button tuning (Ten AM or FM stations may be pre-selected)

Manual tuning on all ranges

Connections available for remote tuning units

Tuning meters for both AM and FM for accurate manual tuning

"BERKSHIRE SECRETARY"

Operating Controls:

- Volume
- Noise Suppression
- Variable Selectivity and Sensitivity
- Bass and Treble Response Controls and Response Indicators
- Special Selector Keys to:
 - Turn equipment "on" and "off"
 - Select phonograph operation
 - Select television operation
 - Select manual operation

AM RECEIVER

- Highly stable oscillator circuits
- Low impedance built-in antenna
- Electrical band spread on principal short wave bands
- Two tuned radio frequency stages for high-signal-to-noise ratio
- Three stages of intermediate frequency amplification provide wide range of selectivity controls
- Twelve tuned i-f circuits provide a high degree of adjacent-channel rejection
- Noise limiter circuit operates at all times on all AM bands

FM RECEIVER

- Built-in folded dipole antenna
- FM tuning system separate from AM tuning system
- "Ratio Detector" type system insures greater sensitivity, less distortion, and high selectivity at all signal levels
- Extremely accurate tuning through automatic frequency-control circuit, permeability tuning, and Autotune mechanism
- Ultra quiet reception through balanced system in FM tuner, accurate tuning, super-sensitive noise suppressor circuit
- Great selectivity (station separating ability) through use of four tuned RF circuits and 10 tuned IF circuits, and permeability tuning in RF circuits

AUDIO AMPLIFIER

- Audio frequency response uniform from 20 to 20,000 cycles
- Maximum harmonic distortion at 40 watts output less than 3%
- Output power 40 watts into four 15-ohm loads

RECEIVER POWER SUPPLY

- Two power transformers, one for plate and screen voltages, and the other for filament voltages
- Copper sulphide magnesium rectifier supplies critical filaments with direct current for low hum effects
- 27 volts a-c for the control circuits of the automatic push button tuner
- 27 volts d-c from a selenium rectifier for the automatic band selector motor

RECORD PLAYER AND PICKUP

- Plays 10 10-inch records
- 8 12-inch records
- 8 intermixed records
- Pause control permits $2\frac{1}{2}$ minutes pause between each record

"BERKSHIRE SECRETARY"

Pickup; magnetic reluctance type, light weight, sapphire needle
Pre-amplifier introduces proper compensation for greater fidelity of
reproduction
D-c power supply insures low hum response

LOUDSPEAKER

Large 7-cu. ft. cavity for low frequency response
Uniform response from 50 to 15000 cycles
Duo-conc arrangement eliminates cross-over frequency distortion
Wide listening angle (120 degrees) at all frequencies

NOISE SUPPRESSOR CIRCUIT

Reduces noise during quiet periods of reproduction of AM or FM radio
or records
Permits improved reproduction of records having distortion in the high-
frequency range