

SHERWOOD SEL 300

DIGITAL READOUT STEREO FM TUNER



SHOWN IN HAND-RUBBED WALNUT CABINET (W9)



THE READOUT TUBE

High brightness, low voltage seven-element incandescent-type. Single plane construction results in high reliability and very long life expectancy (100,000 hours). The "up-front" display surface permits a wide viewing angle. Brightness is adjustable from the front panel.

THE LOGIC CIRCUITRY

Logic circuit incorporates seventeen integrated circuits (the equivalent of over 600 transistors) for maximum component density and reliability. State-of-the-art Emitter-coupled logic, capable of operating speeds in excess of one-tenth giga hertz. Circuitry is mounted on exclusive double-sided, glass epoxy board with plated-through connections.

THE IF SELECTIVITY FILTER

Exclusive twelve-pole "Le Gendre" type toroidal filter yields superior selectivity with excellent phase linearity resulting in exceptionally low distortion. Spurious response rejection is superior to that of crystal filters.

Sherwood Electronic Laboratories, for many years the leader in pace-setting research and development in distinguished high fidelity components, introduces model SEL-300 Stereo FM digital-readout tuner—our finest tuner.

Nothing is spared in designing the most advanced electronic devices and circuitry of proven reliability into the SEL-300. Every conceivable feature is incorporated: enjoy the computer-accuracy of crystal controlled digital readout of your favorite station, brought to you with unprecedented sensitivity and selectivity, and the industry's lowest distortion —0.15%. Tune your station with pinpoint accuracy thanks to two tuning meters. Use the exclusive FET sideband interchannel hush control—variable for minimum masking of weak stations.

Listen to the SEL-300 privately with headphones, driven by a built-in headphone amplifier with extremely wide response and low distortion. Record direct to two tape recorders for direct, flawless recordings.

Utilizing all-silicon transistors the Sherwood SEL-300 achieves a reliability of performance backed by a full 3-year Factory Warranty on all parts and labor*. And Sherwood packages this superlative performance in a distinctively styled, easy to operate tuner that fits any decor. Whatever you want—performance, features, beauty—Sherwood paces the field.

*See details on back.

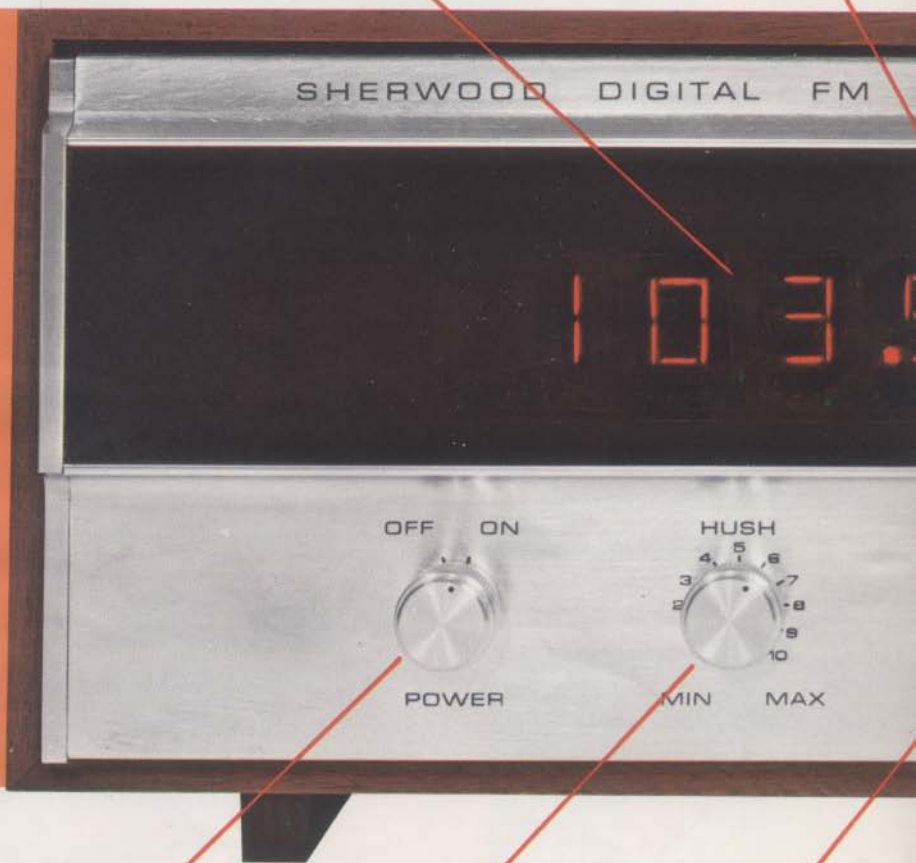
SHERWOOD

ELECTRONIC LABORATORIES, INC.
4300 North California Ave., Chicago, Illinois 60618

HERE ARE
A FEW OF THE
FEATURES
OF THE
SEL 300

DIGITAL READOUT
Reads FM Station frequency
with computer accuracy.
Utilizes crystal-controlled
time base clock for absolute
readout accuracy.

"HUSH" INDICATOR
Illuminates when HUSH
button is depressed



POWER
Turns unit on or off.

VARIABLE HUSH
Controls hush threshold
for minimum masking of
weak stations.

READOUT BRIGHTNESS
Controls brightness of
Digital readout.

VOLUME
Controls volume level
of headphones, independent
of line outputs.

"STEREO/MONO" INDICATOR

Illuminated. Indicates whether signal is stereo or monaural

"FILTER" INDICATOR

Illuminates when "Noise Filter" button is depressed

LINE ATTENUATOR

Calibrated stepped output line attenuator control. "0" VU level is indicated.

ZERO-CENTER TUNING METER

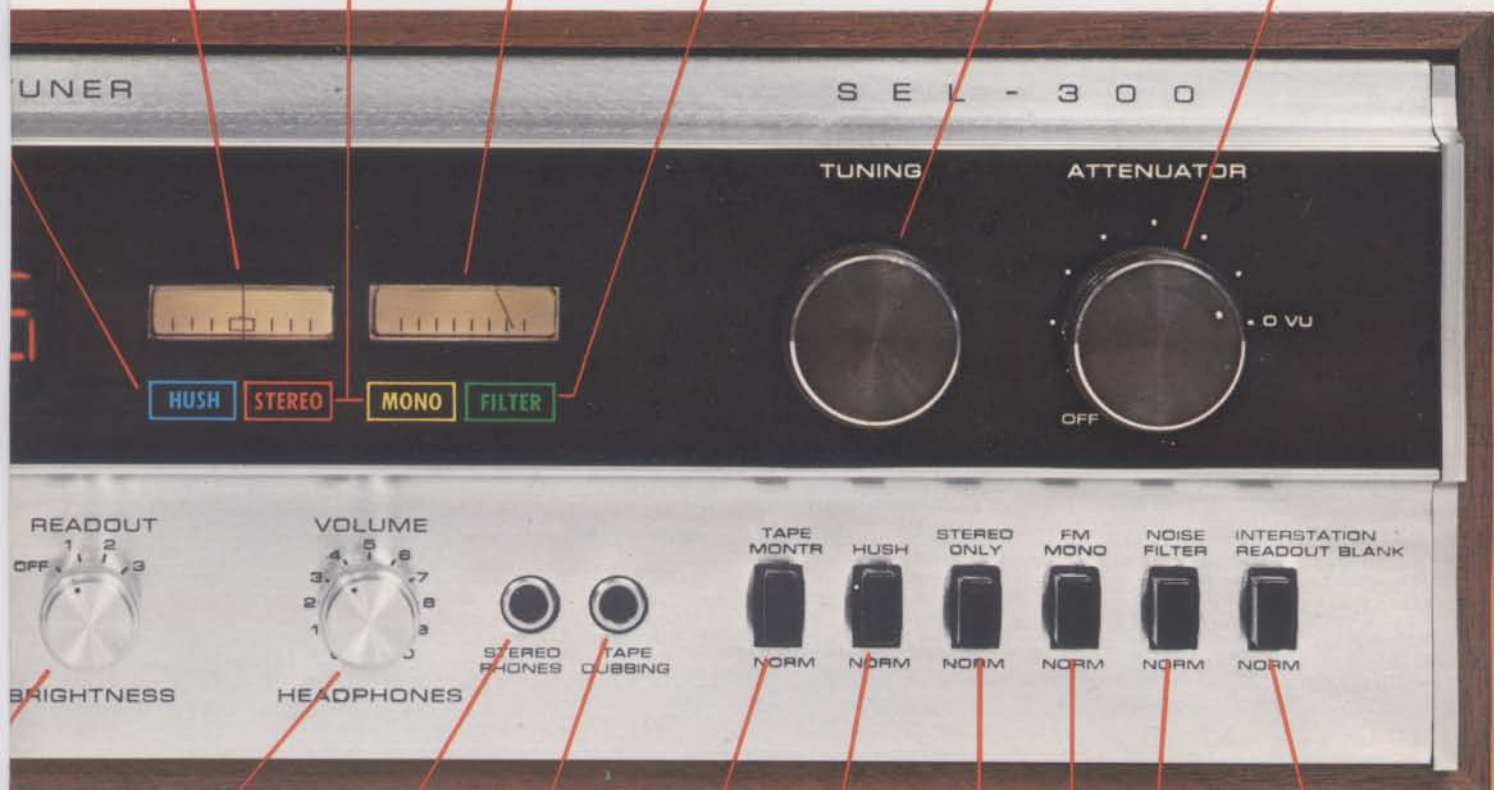
for fine-tuning your FM Station

SIGNAL STRENGTH METER

Indicates relative strength of FM stations; also useful in orienting antenna.

TUNING CONTROL

Counter balanced fly wheel for velvet-action tuning of FM stations.



STEREO PHONES

For private listening with Stereo headphones.

HUSH

Mutes out noise between stations utilizing new FET Sideband-Muting circuitry; exclusive with Sherwood.

INTERSTATION READOUT BLANKING —

Provides readout only when a station signal is being received.

TAPE DUBBING

Permits recording to, or playing back from, a second tape recorder. Permits dubbing from one recorder to another.

STEREO ONLY

Selects only Stereo FM Stations — rejects all others.

NOISE FILTER

Reduces back-ground noise with negligible effect on frequency response.

TAPE MONITOR

Permits recording to, or playing back from tape recorder. permits monitoring during recording.

FM MONO

Translates all Stereo signals into a monophonic signal for monophonic listening.

SEL 300

REAR PANEL FEATURES

75Ω ANTENNA JACK
Permits direct, completely shielded connection of 75Ω antenna cable; accommodates standard Motorola-type coaxial plug.

ANTENNA TERMINAL
For connecting 300 ohm folded-dipole antenna (included), or external 75 or 300 ohm antenna.

EXTRA AC SOCKET
For powering associated equipment.

POWER FUSE
1 amp; 3 AG.

TAPE MONITOR INPUT
Permits playback monitoring of tape recorder thru headphones.

LINE OUTPUT
600 ohms. Connects output of tuner to amplifier.

4-CHANNEL OUTPUT
For use when a system for broadcasting four discrete channels is approved.

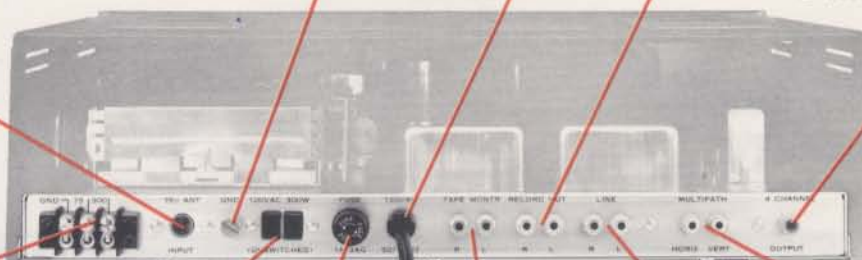
MULTIPATH OUTPUT
Provides for connecting an oscilloscope for visual readout of multipath interference.

GROUND TERMINALS
For grounding the SEL-300 with associated equipment or to earth ground.

RECORD OUT
For direct tape recording of FM programs.

3-YEAR WARRANTY

Sherwood—first in the industry to provide a three-year warranty on transistor receivers, tuners, amplifiers. Warranty covers all parts and labor when returned to factory (transportation costs not included).



SEL-300 SPECIFICATIONS & CIRCUITRY FEATURES

DIGITAL READOUT: Logic circuitry incorporating seventeen integrated circuits (the equivalent of over 600 semiconductor devices) for maximum component density and reliability. State-of-the-art Emitter-coupled logic, capable of operating speeds in excess of 1/10 giga-hertz.

READOUT TUBE: New seven-segment, vacuum incandescent readout tube with an estimated life of 100,000 hours. Provides maximum legibility of the readout. Readout brightness adjustable on front panel.

READOUT ACCURACY: Crystal controlled time base clock for absolute counter (station-readout) accuracy.

LOGIC-CIRCUIT CONSTRUCTION: Uses exclusive computer-type double-sided glass epoxy boards with plated-through interconnections.

POWER SUPPLY: Multi-stage regulation to provide total immunity to live voltage and load variations.

IF SELECTIVITY FILTERS: Exclusive 12-Pole "Le Gendre" type toroidal filter, phase-linear, permanently tuned.

FRONT END: 4-section, 3 Field Effect Transistors.

FET SIDEBAND HUSH: Exclusive with Sherwood. Eliminates annoying sideband "Thumps" or noise. Hush threshold is variable.

TWO METERS: Zero-center meter for fine tuning; signal strength meter-linear-for true readout signal strength; useful in orienting your antenna.

HEADPHONE AMPLIFIER: 300 milliwatts per channel. Response 20–20,000 Hz ± 1/2 dB; distortion less than 0.2%.

SENSITIVITY (IHF): 1.5 μ V (–30dB noise & dist.)

FM QUIETING:
0.9 μ V for –20dB; 3.0 μ V for –50dB.

ALTERNATE CHANNEL SELECTIVITY: –85dB.

SIGNAL-TO-NOISE RATIO: –70dB

SUPPRESSION OF AM: –65dB

TUNING RANGE: 87.5–108.5 MHz

DISTORTION:

0.15% @ 100% Mod. (Mono.)

SPURIOUS RESPONSE REJECTION: –100dB

STABILITY: ± 15 KHz (± .015%)

IMAGE REJECTION: –80db

IF REJECTION: –110dB

STEREO SEPARATION: –40dB @ 1KHz

FREQUENCY RESPONSE:

Mono, 20-20KHz ± 1dB

Stereo, 20-15KHz ± 1dB

ANTENNA: 300 ohms balanced, or 75 ohms (input jack for 75Ω coaxial shielded cable plug is provided).

GENERAL

POWER REQUIREMENTS:

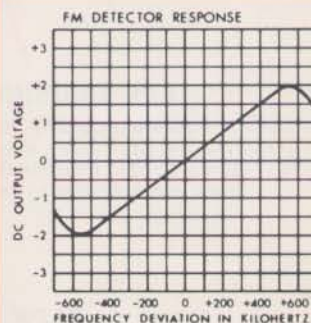
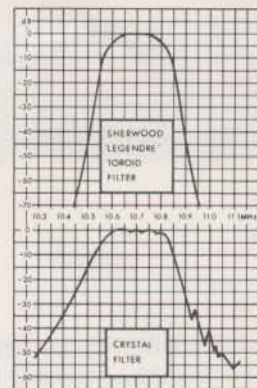
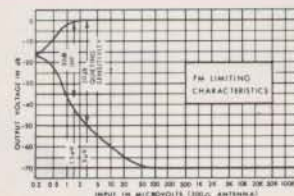
30 Watts, 50–60Hz. AC.

AC OUTLET: 300 Watts (Unswitched)

CABINET (Optional): W-9 Oiled Walnut

SIZE (H,W,D): 5 1/4" x 16 1/4" x 14"

SHIPPING WEIGHT: 25 lbs.



Made in U.S.A. by

SHERWOOD

ELECTRONIC LABORATORIES, INC.
4300 North California Ave., Chicago, Illinois 60618