



# WL500



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This LUXMAN AM/FM tuner WL500 is specially designed to match the existing preamplifiers of high quality represented by SQ505X. An epoch-making product with closest harmony between high quality and refined styling.

Meticulous care was paid to stability factor to maintain splendid performance at all times not to speak of the electrical specification itself, the total quality to suit to Hi-Fi reproduction of music sources and the outer appearance comprising all of these major outcomes. The latest solid state tuner engineered under the most up-to-date technique.

#### CIRCUIT

FM section is equipped with dual-gate MOS FET's at RF amplifier and frequency converter circuits, which ameliorates spurious response and stability against excessive input at high field strength not to speak of sensitivity. In addition an adoption of 4-gang variable capacitor ensures sufficient selectivity. Other important factors such as selectivity, distortion, capture ratio, stereo separation etc. are also improved under combination of G.C.'s and block filter. With

block filter the selectivity equivalent to that of crystal filter is obtained, and moreover it is extremely good at phase response and effective on suppression of distortion.

Excellent 2-signal selectivity is effective against disturbance of adjacent channels. A switching system is adopted at the MPX circuit. Furthermore an excellent channel separation is obtained. An addition of cross-over cancellation circuit ensures better channel separation, which offsets the signals leaked from other channel. Furthermore an adoption of low-pass filter effective on frequencies exceeding 16KHz eliminates carrier leakage.

AM section is composed by 1-stage RF amplifier and 2-stage IF amplifier, which ensures sufficient gain. A wide band-width type IPT in combination with IF amplifier ensures faithful reproduction of AM programme and supreme total quality is obtained. A powerful AGC removes possible distortion at high electric field strength.

#### FUNCTION

So-called 2-meter system with independent

signal strength meter and centre tuning meter makes it possible to find easily the exact tuning point. Purely electronic muting circuit which eliminates interstation noise is effective both on FM and AM sections. An adoption of high band noise filter against high frequency noise at FM stereo reception attenuates only high frequency noise without any influence on frequency response. Almost all oscilloscopes are utilized as multi-path observer because of higher output of vertical signal for oscilloscope available in this tuner. At the mains supply source voltage stabilizer of high efficiency is adopted, which ensures unvarying performance against fluctuation of mains voltage within 10% allowance.

#### STYLING

The style of this tuner is of high dignity and grace which impeccably matches the renowned amplifiers of LUXMAN SQ500X series. The front panel of hair-line finish, dial frame of die-casting 3-dimensional dial structure, all are of incomparable finish. Have this tuner just for your pleasant combination of high quality and reproduction.

