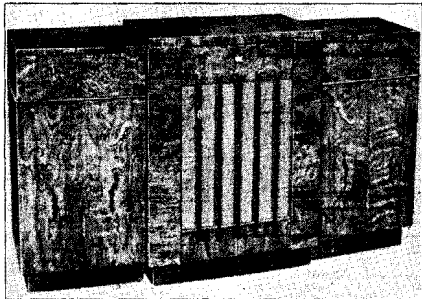


HIGH-FIDELITY EMI RADIOGRAM



Shown first at the recent Royal Easter Show, the new EMI model 91-45 True High-Fidelity Radiogram is soon to be released to the general public.

THE radiogram is in three separate units which can be placed together to give one unit, as in the photograph, or separated to give maximum convenience of operation and effectiveness of sound reproduction.

The main centre unit, which is provided with castors, is a vented enclosure housing a high quality triple cone loudspeaker with high flux density magnet. The cabinet measures 27 x 16 x 38 inches.

The other two units are the record storage cabinet and player equipment cabinet, which contains, radio tuner, pre-amplifier, power amplifier, power supply and record player. They each measure 18 x 16½ x 36½ inches.

The radio tuner unit provides in addition to the normal broadcast band of 540-1600 Kcs, three short-wave bandsread ranges. These cover 5.9 to 7.5 mc/s, 9.4 to 12.1 mc/s, and 14.2 to 18.4 mc/s.

VARIABLE SELECTIVITY

Variable selectivity is provided in this unit so that optimum results can be obtained from any particular transmission. The valve complement of the tuner is—6AN7 frequency changer, 6N8 IF amplifier, demodulator and AVC, and 6AU6 output cathode follower.

The pre-amplifier utilises the low noise EP86 pentode as the input stage, followed by a 12AX7 equaliser and cathode follower, and a further 12AX7 for the steep cut filter and tone control circuits.

The pre-amplifier has six controls.

A five position equaliser giving accurate frequency compensation for all basic recording curves.

A continuously variable volume control.

A function switch selecting either radio, gramophone, or tape play-back positions.

A three position scratch filter for minimising the surface noise on old recordings.

A continuously variable treble boost or cut control.

A continuously variable bass boost or cut control.

A low frequency cut filter is built into the unit to remove any turntable or recording rumble.

MAIN AMPLIFIER

The main amplifier is of the Williamson type having adequate power output for home listening with ample reserve to handle transients and high level passages. The valves used are 12AX7 voltage amplifier and phase splitter, 12AU7 push-pull driver and two triode connected KT66's in the output stage.

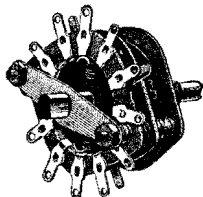
An automatic record changer is provided which may play records singly in the "manual" position if desired. This changer will handle 7in to 10in and 12in recordings.

The pick-up arm is fitted with an American G.E. variable reluctance cartridge with diamond micro-groove stylus and sapphire standard stylus.

The record cabinet contains ample shelves and partitions for record storage and the top portion of this cabinet under the lid may be used for housing records selected for a night's program from the main library below.

Provision is made in the storage cabinet to fit an "Emicorda" tape recorder which can be played through the tape replay position on the pre-amplifier.

In our last issue the telephone number of Special Transformers was given in their advertisement as XL494. The correct number is XJ494.



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GENERAL: It is the only Single or Multi-Pole Rotary Selector Switch which combines 10 Amp. current capacity with small physical dimensions. It is interchangeable and can be used in conjunction with an "Oak" type assembly. Mechanical Operation Test.

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Resistance—600 Micro-Ohms.

TEMP. RISE ON CONTACTS—

(with 10 Amp. Conductors)

at 10 Amperes 10° C. rise

at 20 " 30° C. rise

at 30 " 50° C. rise

DECS—1 to 8 mec.

POLES PER DECK—

1 Pole—max. 12 contacts

2 Pole—max. 6 "

3 Pole—max. 4 "

4 Pole—max. 3 "

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