HMV 15

Electrical reproducer incorporating a 20-record (10- and 12-in, intermixed) record changer, with remote control pedestal for switching on or off and changing records. The output from a radio receiver may be plugged into the amplifier and extra loudspeakers may be connected to the output. For operation from AC mains supply, 40-60 cycles, 100-120 v, or 200-240 v. Marketed in 1930 by The Gramophone Co., Ltd., Haves, Middlesex.

THE amplifier and loudspeaker incorporated in this instrument are similar to those employed in the HMV Model 551. reviewed in this issue. The motor is Type 82, which operates on 40 volts give the extra voltage to the motor.

through a dropping resistance in series with the mains supply. The resistance is one of three mounted on the floor of the cabinet and is labelled "Motor." It is adjusted by means of a slider contact the mains through a lamp resistance. A running along a volt calibrated slider bar.

The mechanism in the Model 15 is of heavy construction, and to give the motor more power to effect a cycle of record values :the mechanism which allows a further 20 v to be applied to the motor during the Lamp resistance record-changing cycle.

means of a sliding contact.

The "booster" resistance also supplies current to the remote control relay which when the press-button on the remote control pedestal is pressed. The "booster" resistance is shorted out by the switch to front control panel adjacent to the volume whole instrument.

In some models a pilot lamp is mounted on the motor board to facilitate the loading of the records on to the unused record platform and this pilot lamp is fed from switch in the lidstay switches the lamp on directly the lid of the cabinet is raised.

The three resistances have the following changing, a booster switch is operated by Booster and relay resistance . . 400 ohms 200 ohms Motor resistance ..2,500 ohms

This is effected by means of an additional in the Model 15 connected in series with the equipment described in the review booster" resistance adjacent to and in the output wiring of the amplifier to the series with the motor resistance on the speech coil of the loudspeaker and opens floor of the cabinet and is adjustable by the circuit during a period of record external wiring to the amplifier is that changing.

operates the trip lever of the mechanism the mains on-off switch, but the jack may remain in position if desired, as a radiogram change-over switch is mounted on the control.

HMV 12

An electrical reproducer incorporating a 12-record (10- or 12-in. intermixed) auto-mechanism.

THE amplifier employed in this instrument and the energised loudspeaker The muting switch on the mechanism is with its pot rectifier unit are identical with covering the HMV Model 551 in this issue. The main difference with regard to the there is a pickup muting switch on the The jack for the radio input is mounted underside of the mechanism which silences on the side of the instrument adjacent to the pickup circuit directly the arm commences to move during the course of record changing. A separate on-off switch is used to control the mains input to the

The motor circuit incorporates a hand the review for the Model 551.

switch which is operated by the mechanism when a programme of records is to be played, or may be operated by hand when it is desired to play single records.

A Type 82 motor is employed in the mechanism and is of the commutator universal type operating at 40 volts. A voltage dropping resistance is connected in series with the mains supply to the motor and may be adjusted by means of a slider which moves along a calibrated bar. The slider should be adjusted along the bar until the arrow on the moving contact is opposite the figures corresponding to the supply voltage.

If the motor is sluggish in operation and is itself apparently OK, the voltage across the motor input should be measured on load and the resistance adjusted to give a full 40 volts irrespective of the calibration.

The motor resistance will be found under the bottom of the cabinet.

The mains voltage adjustment of the amplifier and pot rectifier unit is as given in

