

FERGUSON

OPERATING INSTRUCTIONS

STEREOGRAM MODEL 3344

Radio Reception

1. Switch on the receiver by turning the *on-off* volume control clockwise: the scale illumination will indicate that the switch has operated and that the receiver is immediately ready for use with no delay for 'warming-up'.
2. Select waverange by depressing the *Long*, *Medium*, or *VHF* button. Rotate the *tuning* control until the pointer registers with the name, frequency or wavelength of the desired station as shown on the appropriate scale. Turn the *volume* control until the station or background noise is audible and slowly turn the *tuning* control in each direction to find the position at which reception is clear and free from distortion or shrillness.
3. Adjust the *volume* control as required and set the *tone* and *speech/music* button control for the most pleasing balance of tone. The *SP-MUS* (speech/music) button operates independently of the other buttons, press in to reduce the bass response, press again to release.

Record Reproduction

Depress the *Gram* button: the *on-off* volume, tone control and *speech/music* function in the same way as for radio reception.

Depending on thickness, up to eight 7-inch, 10-inch or 12-inch records may be played automatically at speeds of 16 $\frac{2}{3}$, 33 $\frac{1}{3}$, 45 or 78 rpm. Records of all the sizes mentioned, if of similar speed, may be mixed in any order. 7-inch records with large centre holes should be fitted with centre hole adaptors, obtainable from record dealers. Badly worn records should not be played and warped records should only be played manually.

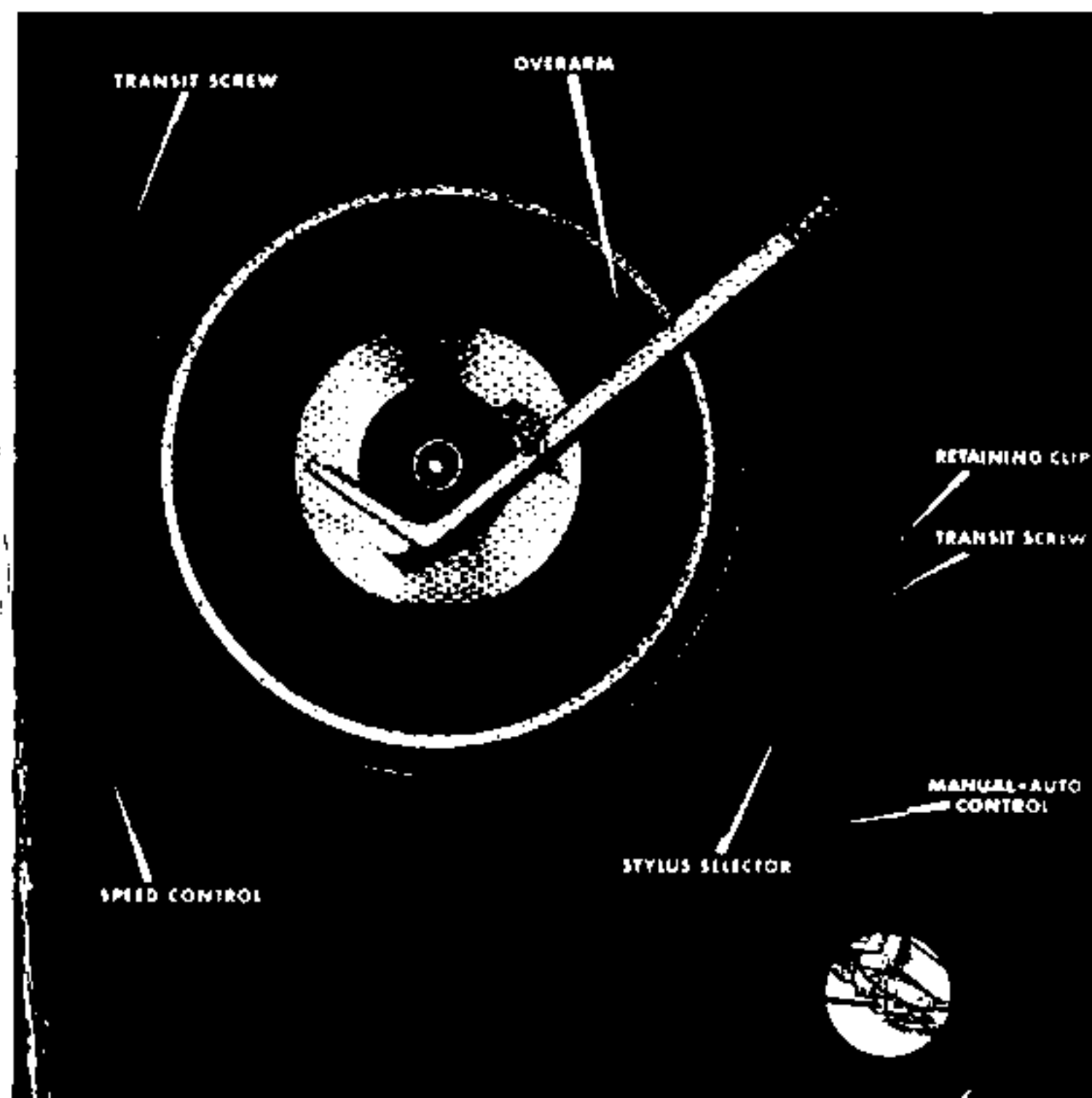
Before commencing to play records, release *overarm* from transit position by pressing down the arm at its pivot end and turning towards centre of the turntable. The special stereophonic pickup cartridge in the record changer plays standard monodic records as well as stereo. To protect the pickup during transit, the arm is clipped securely to the pickup rest. Unclip, lift the pickup arm clear of its rest and gently replace. Always handle the pickup carefully and when not in use secure it to its rest by means of the retaining clip.

SELECT STYLUS

Bring the correct stylus to the playing position by means of the *stylus selector*. Failure to do this may result in serious damage to the records and stylus. For 78 rpm records the knob should show 78 and for all 16 $\frac{2}{3}$, 33 $\frac{1}{3}$ and 45 records the S marking must be uppermost.

MANUAL OPERATION

1. Move the *speed control* lever to the speed of the record to be played.
2. Lift the *overarm* and turn it away from the turntable.
3. The record to be played should be carefully placed on the turntable.
4. Swing *overarm* inwards to the operating position.
5. Move the *manual-auto* control to *MAN* and no further.
6. Gently place the pickup on the record. At the end of the recording the pickup will return to its rest position, and the motor will be switched off.



Installation

RECORD-CHANGER

Remove all transit packing from record-changer and turn the motor board transit screws fully clockwise until they are flush with the unit plate. The record-changer will then float freely on its suspension springs. Release overarm from transit position by pressing down the arm at its pivot end and turn towards centre of turntable.

MAINS VOLTAGE

This model is suitable for operation on 200-250 volts 50 cps AC mains supplies only. It must not be connected to DC mains.

The instrument is fitted with a three-core mains lead and whenever possible should be fitted with a three-pin plug. The wires in the mains lead are colour coded and the plug should be connected as follows: red lead to live (L), black lead to neutral (N) and green lead to the larger pin marked earth (E).

Please Note: If a two-pin plug must be used, insulate or cut back the green lead so that it cannot touch the other wires. A separate earth socket is provided on the receiver and should be connected by the shortest possible route to an efficient earth.

Do not use the separate earth socket if a three-pin plug is used.

AERIALS

The radiogram is fitted with an internal ferrite-rod aerial for medium and long waves and a dipole aerial for VHF/FM. Sockets are provided for an external AM aerial, and for a VHF/FM aerial if required.

Reception on the VHF band is influenced by many factors including height above sea level, local surroundings and the type of building in which the receiver is installed. If satisfactory performance is not obtained when using the internal aerial, an outdoor or indoor dipole should be connected.

An external FM aerial should be connected through 75 Ohm twin feeder and the internal aerial must, of course, be unplugged.

The programme may reach the aerial directly from the transmitter and indirectly through reflections. In some cases this may cause distortion on one or more stations; distortion which can only be eliminated by an improvement in the aerial system. The most effective cure is to erect an efficient outdoor aerial as high as possible in the position found to give the best reception.

PRESET BALANCE CONTROL

This adjustment, located on the chassis, has been set during manufacture and will not normally require readjustment unless a replacement pickup cartridge is fitted.

The manufacturers reserve the right to vary specifications or use alternative materials as may be deemed necessary or desirable at any time



BRITISH RADIO CORPORATION LIMITED

284 Southbury Road Enfield Middlesex

AUTOMATIC OPERATION

1. Move the *speed control* lever to the speed of the records to be played.
2. Lift the *overarm* and turn it completely aside. Place the records on the centre spindle so that the lowest record rests on the step; swing the *overarm* to rest on top of records.
3. Move the *manual-auto* control to REJ and allow it to return gently to the MAN position. The bottom record will be lowered to the turntable and the pickup will swing over and descend to the playing position. This process will be repeated until the last record has been played, when the mechanism will stop automatically and the pickup will return to its rest position.

Records may be rejected during playing. Move the *manual-auto* control to REJ and gently release.

4. Lift the *overarm* and move it completely aside. Lift the records off spindle. When lifting, do not grip the records but hold them loosely. If the same group of records is to be played again, lift clear of spindle before replacing on step.

Tape socket

Ferguson Tape Recorders are provided with a special lead which may be fitted with a suitable plug and inserted into the TAPE socket at the rear of the cabinet.

The socket will allow recordings to be taken from radio programmes or records (attention is drawn to the Copyright Act, 1956). The same socket and plug connections also enable recorded tapes to be played back through the radiogram. The socket accepts either a three- or five-pin plug and is suitable for mono or stereo recorders. All mono recorders should be connected with the playback lead connected to pin 3 and the recording lead to pin 1 of a three-pin plug for playback and recording on one channel. If a five-pin plug is used, the playback lead may be connected to both left- and right-hand channels by wiring the plug pins together. When this method of connection is used, remove the plug when the tape recorder is not required.

STYLUS REPLACEMENT

From time to time the stylus assembly will need to be renewed. The life of each stylus depends upon the care with which it is handled and the condition of the records on which it is used. An increase in surface noise and a deterioration of tonal quality may be taken as indications that a stylus is approaching the end of its useful life. A worn stylus may prevent proper tracking and also damage records. The BSR pickup cartridge Type SXIM should always be quoted when ordering a new stylus assembly.

To remove the worn assembly, gently prise out as shown in the inset diagram. After replacement, ensure that the stylus arm is engaged properly within the V-shaped fork of the cartridge.

★ ★ ★

Guarantee

This model is guaranteed in accordance with the terms and conditions printed on the back of the accompanying card. Please complete the detachable portion and post to register the guarantee.

When making recordings from the radio, it is advisable to turn the tone control on the radiogram to maximum, and the volume control to normal listening. The radiogram volume control should not be readjusted during a recording, as it may alter the output to the tape recorder.

To play back recordings through the radiogram the *Gram* button must be depressed and tone and volume adjusted for the most pleasing reproduction.

