

The home of the turntable

THE VINYL ENGINE®

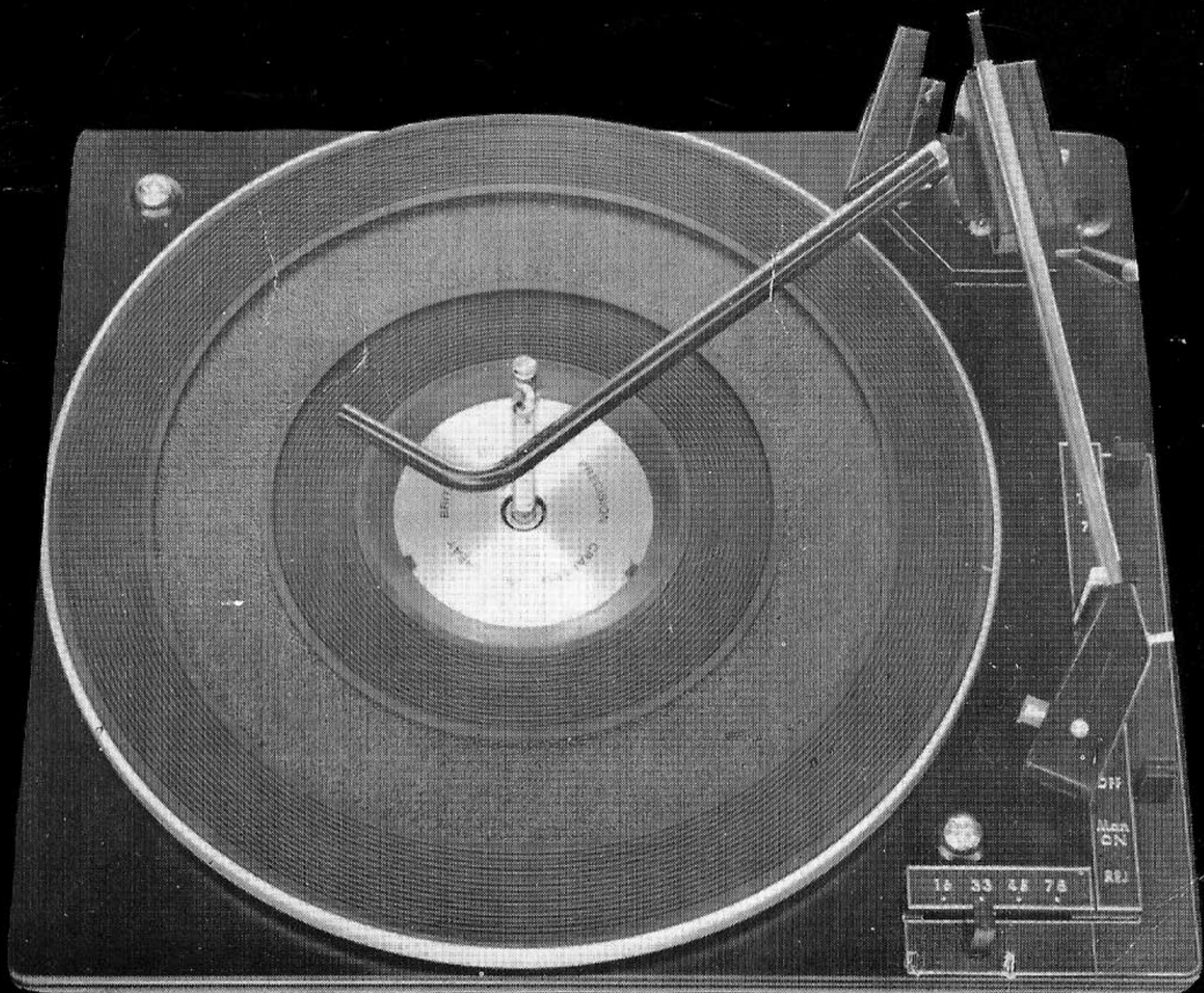
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BSR

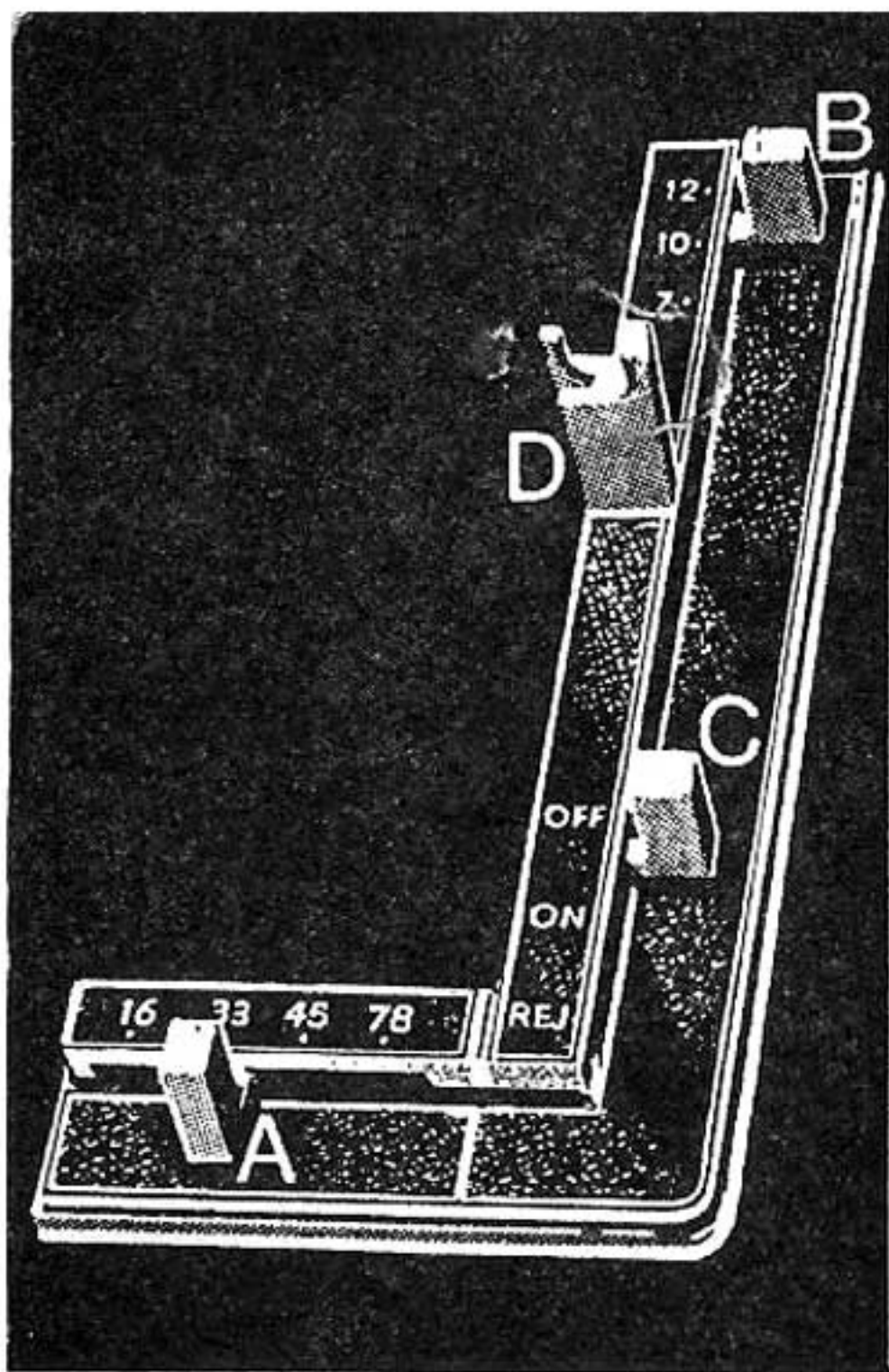


MIA65

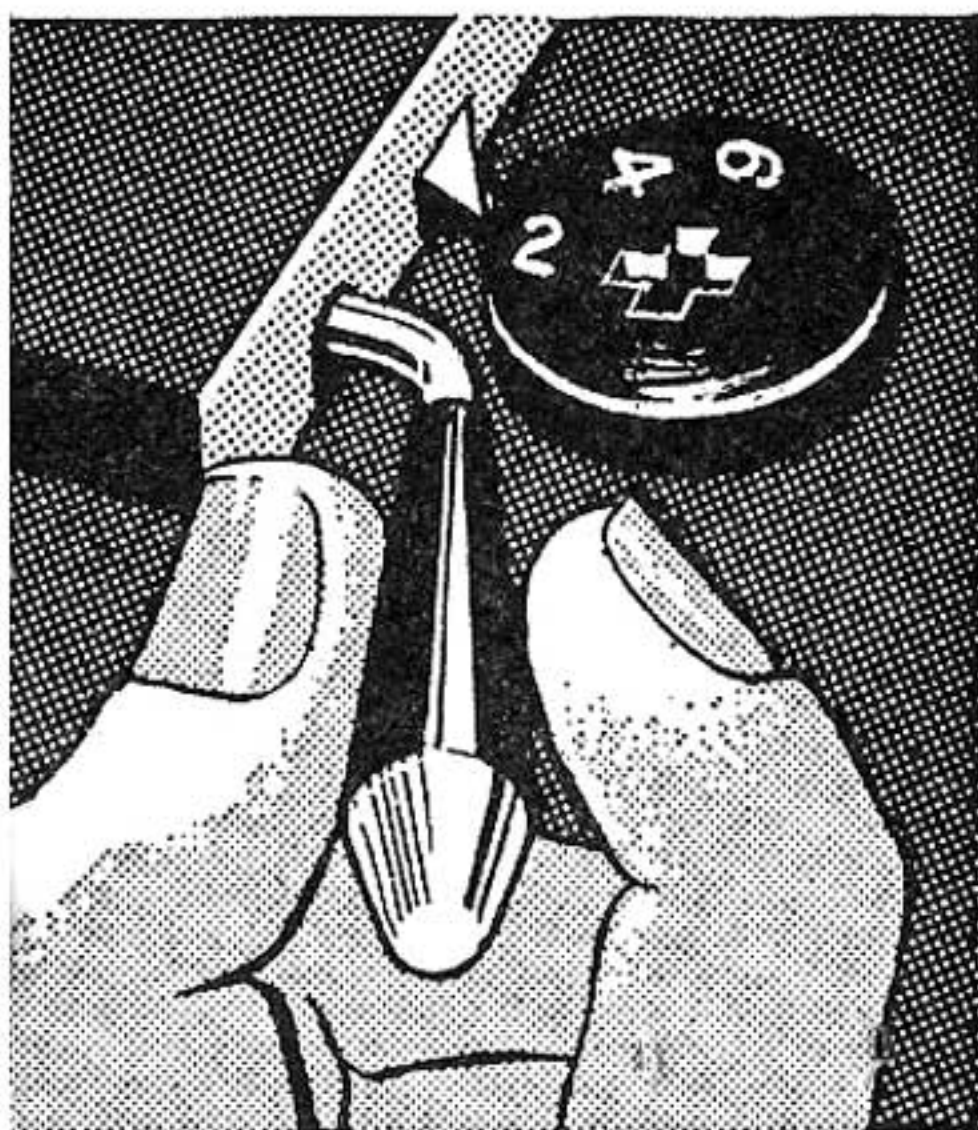
Instruction Manual



... an expression of the craftsmanship and engineering know-how that have made BSR the world's leading manufacturer of record playing equipment.



1 CONTROL PANEL WITH AUTOMATIC PICK-UP LOCK



2 CUEING LEVER AND BIAS COMPENSATOR

OPERATING INSTRUCTIONS

The BSR MA65 will play automatically a stack of up to eight (depending on thickness) 7", 10" or 12" diameter records of the same speed. 7" diameter records having a large centre hole may be played using a BSR 45 rpm spindle adaptor. Records may also be played singly.

Initial Preparation

1. Check that the two transit screws (Fig. 5, A and G) are fully screwed down to the mainplate and that the unit floats freely on the mounting springs.
2. Rotate the turntable (5, B), by hand, five times to ensure that the mechanism is in neutral position.
3. If the centre spindle (5, F) is not already fitted, place it into the turntable bearing, ensuring that the projection on the spindle locates in the slot at the top of the turntable bearing. Press downwards until the spindle snaps onto the retaining clip.

NOTE: The pick-up arm (5, C) is automatically released when the starting lever is operated.

Automatic Operation

To operate the unit automatically:

1. According to the type of record to be played
 - (a) Move the speed control (Fig. 1, A) against the required speed.
 - (b) Set record size selector (1, B).
 - (c) Select the correct stylus. The stylus is correctly set for 78 rpm records when the stylus selector (5, D) shows 78 uppermost. For long playing records LP must be showing.

NOTE: Some units are now fitted with twin LP styli in which case either may be used for the playing of LP microgroove records only.

2. To Load. Lift the control arm (5, E) at the rear and swing it to the right. Carefully place one record on the ledge of the centre spindle (5, F) and hold there while the remaining stack of up to seven records are also loaded. All records in any one stack must be of the same speed and diameter and have the same type of groove (i.e. standard or long playing). Swing the control arm back to the centre and gently lower onto the records.

3. To Start. Move the starting lever (1, C) to the REJ position and hold there momentarily until the turntable revolves, then let it return gently to the ON position.

4. To Reject. To reject a record at any time when the unit is in operation, move the starting lever to the REJ position and then let it return gently to the ON position.

5. To Stop. After playing the last record the unit will shut off automatically. If it becomes necessary to stop the unit during play, raise the cueing lever (Fig. 2) and move the pick-up arm above the pick-up rest (1, D) lower the cueing lever and move the starting lever to the OFF position.

NOTE: To interrupt the record raise the cueing lever to lift the pick-up arm. When the cueing lever is lowered, the pick-up will descend to the record and resume playing in the same groove.

Manual Operation

1. Check all settings as indicated in 1 (a), (b) and (c) under 'Automatic Operation'.
2. Where a stub spindle is provided, remove centre spindle assembly by lifting and twisting and replace with the shorter spindle. (NOTE: Records may be played with the long spindle fixed, but the record must be manipulated carefully over the spindle ledge).
3. Lift the control arm at the rear and swing to the right. Place the record on the turntable and replace the control arm in the playing position.
4. **To Start.** Move the starting lever to the ON position and raise the cueing lever. Move the pick-up arm above the record to the selected point and lower to the groove by returning the lever to the rest position. At the end of the record the pick-up will return to the rest and the unit will switch off.

continued

OPERATING INSTRUCTIONS

5. To Reject or Stop. The procedure for stopping or rejecting a record while playing is as described in paragraphs 4 and 5 under 'Automatic Operation'.

NOTE: (a) Single records may be played semi-automatically by leaving the control arm in the raised position clear of the turntable, then moving the starting lever to the REJ position, letting it return gently to the ON position. The pick-up will automatically set down on the record. If the control arm is left in the raised position the record will continue to play repeatedly. The unit will shut-off and the pick-up return to its rest only if the control arm is lowered after the stylus has set down on the record.

(b) Records which do not have a starting or fast finishing groove must be played manually.

IMPORTANT:

1. Always remember to use the correct stylus on the pick-up. If the wrong one is in use it may not be apparent from the music, however, the stylus itself may become damaged by continuous playing on the wrong point.
2. Never force the pick-up arm. This unit is robust but due to the featherweight action of the pick-up and the delicate balance required, any force will upset the adjustment.
3. When playing new records a certain amount of fluff will gather on the stylus point. This should be carefully removed from time to time.
4. Do not leave records on the unit when not in use; store as recommended by the manufacturers.
5. If the unit is to be moved the transit screws should be raised to secure the unit to the motor board.

ADJUSTMENTS

This unit has been subjected to the most rigorous checks and tests before leaving the factory where all necessary adjustments have been made to ensure the satisfactory playing of records. The following information is provided, should it become necessary to make any minor adjustments.

1. Stylus Pressure. The stylus pressure should always be set as recommended by the cartridge manufacturer. The pressure is adjusted by means of the stylus pressure adjusting screw (Fig. 3). Turning clockwise increases the pressure, anti-clockwise reduces the pressure.

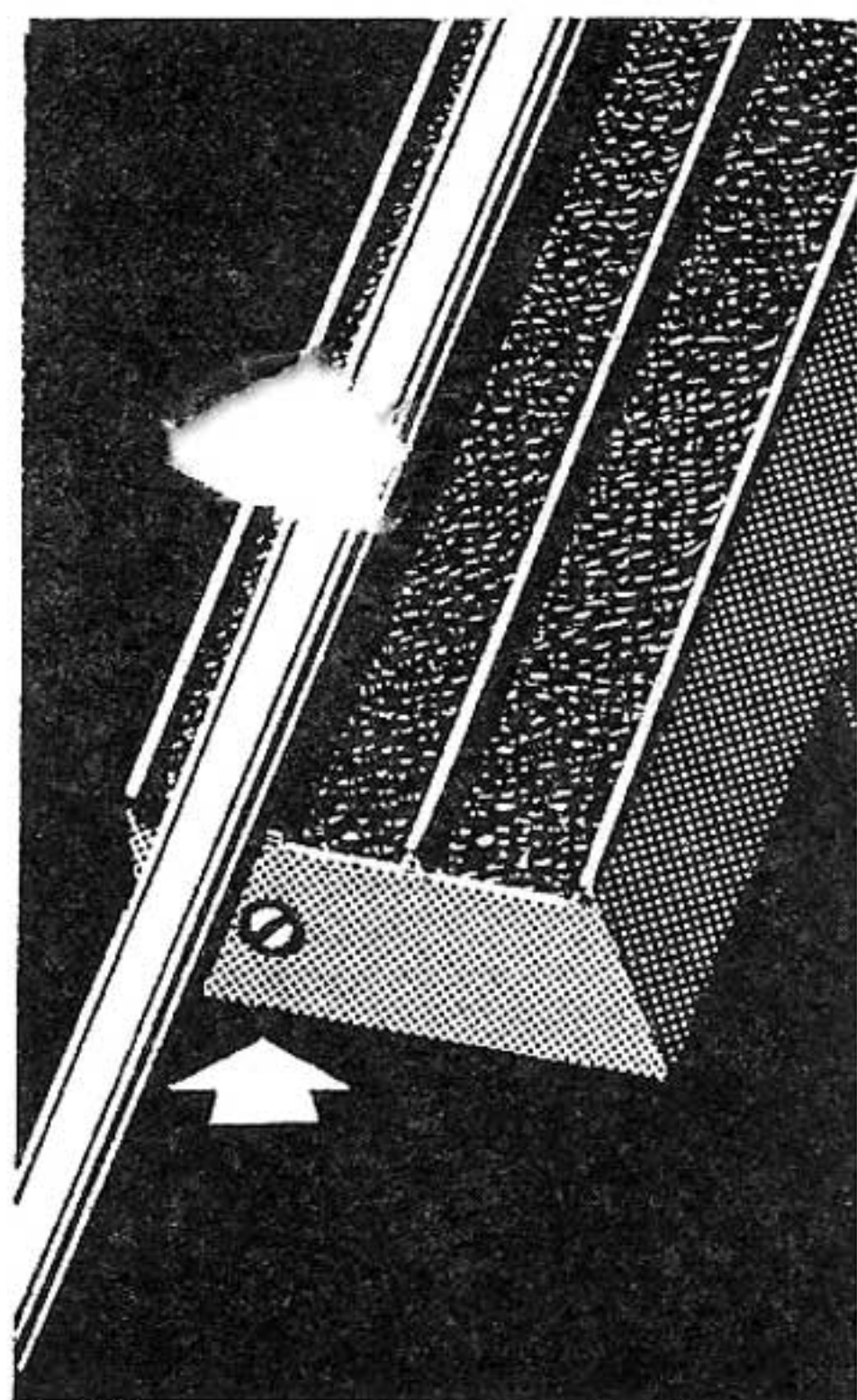
NOTE: It is recommended that replacement cartridges be similar to that originally fitted, otherwise it may be necessary to change the pick-up balance spring.

2. Pick-up Arm Bias Compensator. Having set the required stylus pressure, the bias compensator (Fig. 2) is adjusted to a figure corresponding to the stylus pressure applied. The control is continuously adjustable so settings between the figures indicated are possible.

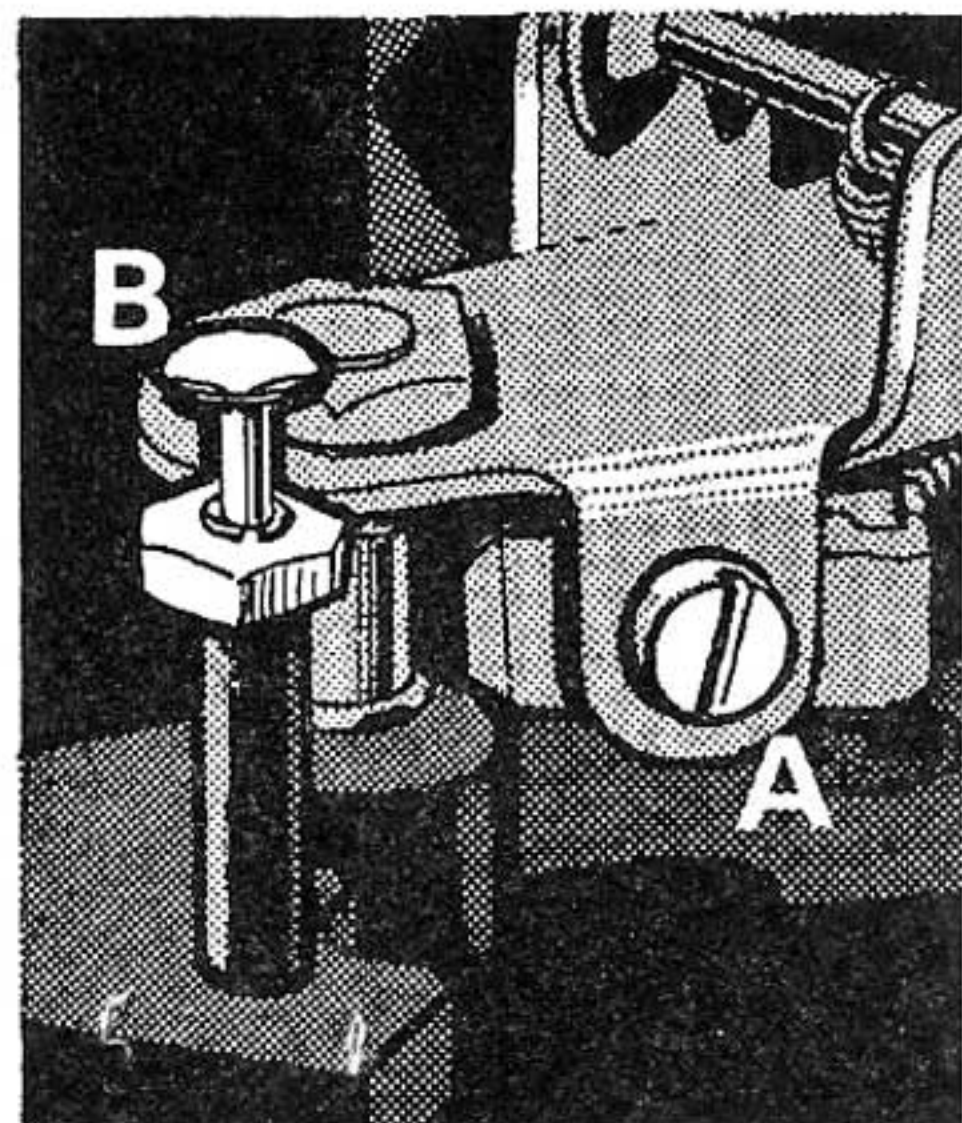
NOTE: The bias compensator settings described are those required under ideal conditions. Slight variation from the optimum may be necessary depending on the condition of the stylus. If, after setting the adjustment, the pick-up tends to skate out, lower the setting, if it skates in, increase the setting.

3. Stylus Set-down. The correct position for stylus set-down is $\frac{1}{8}$ " from the edge of the record. The position is adjusted by the stylus adjusting screw (Fig. 4, A) and is best done with a stack of 10" records on the turntable. When correctly positioned for a 10" record the set-down will also be correct for 7" and 12" records.

4. Pick-up Arm Height. The pick-up arm height is correctly adjusted when the stylus clears by $\frac{1}{8}$ " the top of a stack of eight average thickness records on the turntable. The pick-up arm height may be raised by turning the pick-up height adjusting screw (Fig. 4, B) anti-clockwise and lowered by turning clockwise. After any adjustment a check must be made to ensure that the pick-up clears the underside of records held on the centre spindle ledge and also is secured by the automatic pick-up arm lock.

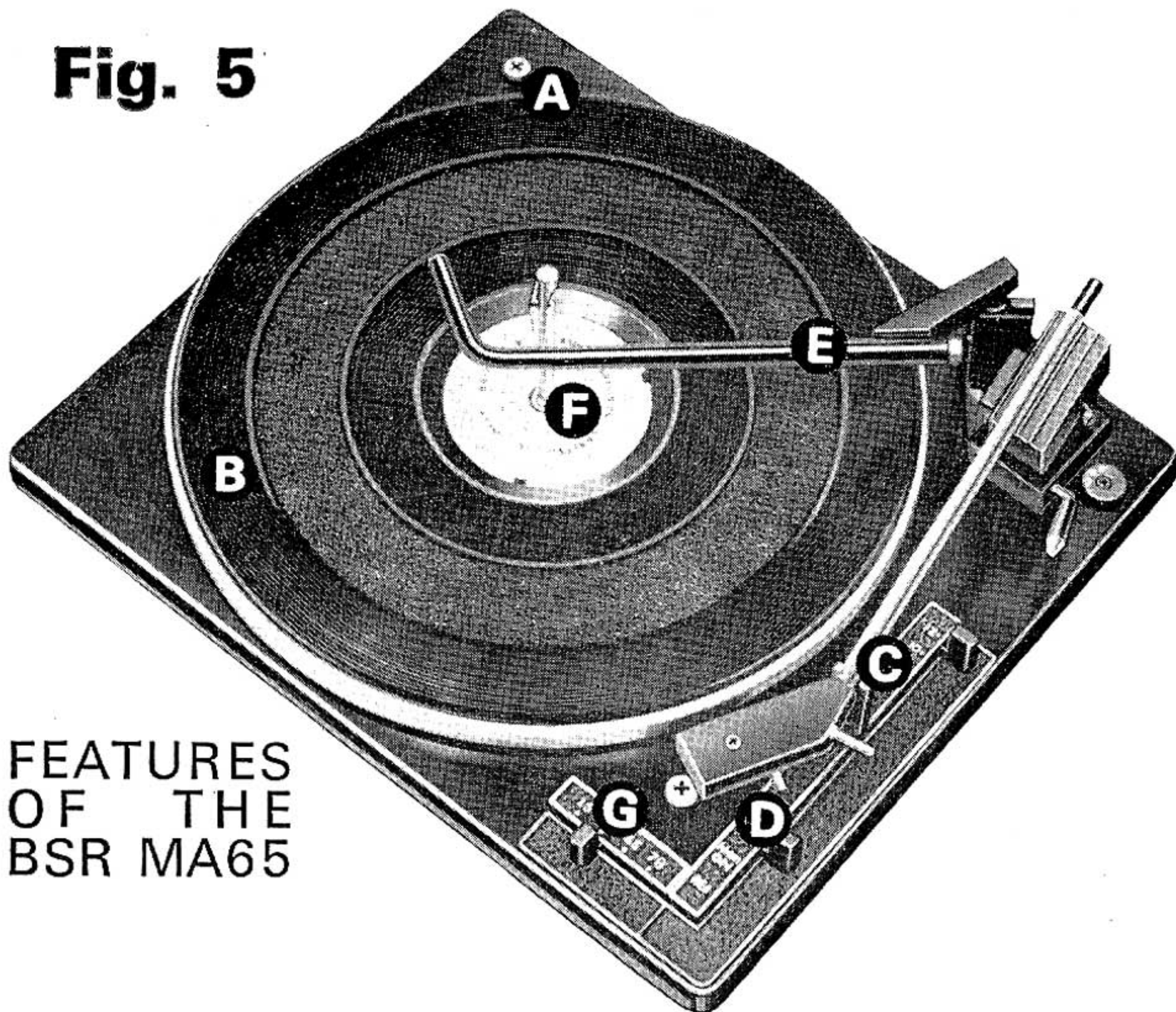


STYLUS PRESSURE ADJUSTMENT **3**



PICK-UP HEIGHT AND SET DOWN ADJUSTMENT **4**

Fig. 5



FEATURES OF THE BSR MA65

- Integral mechanical cueing device allows the pick-up arm to be raised or lowered at any selected point on the record when records are played manually.
- Pick-up arm bias compensator to ensure positive stylus set-down and eliminate distortion resulting from side pressure.
- Dynamically balanced motor suspended on rubber mountings.
- Automatic lock which secures arm to rest after record has been played.
- Provision for interchangeable centre spindles for manual or automatic play.
- 11" diameter deep rim turntable with attractively styled mat.
- Corner mounting springs effectively insulate the instrument from any external vibrations.
- Automatic disengagement of idler wheel when the unit is shut off.
- Simple to operate linear controls.
- Light-weight cartridge shell with finger lift.

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