

**OPERATING
INSTRUCTIONS**

SEEBURG

SELECT-O-MATIC LIBRARY UNIT

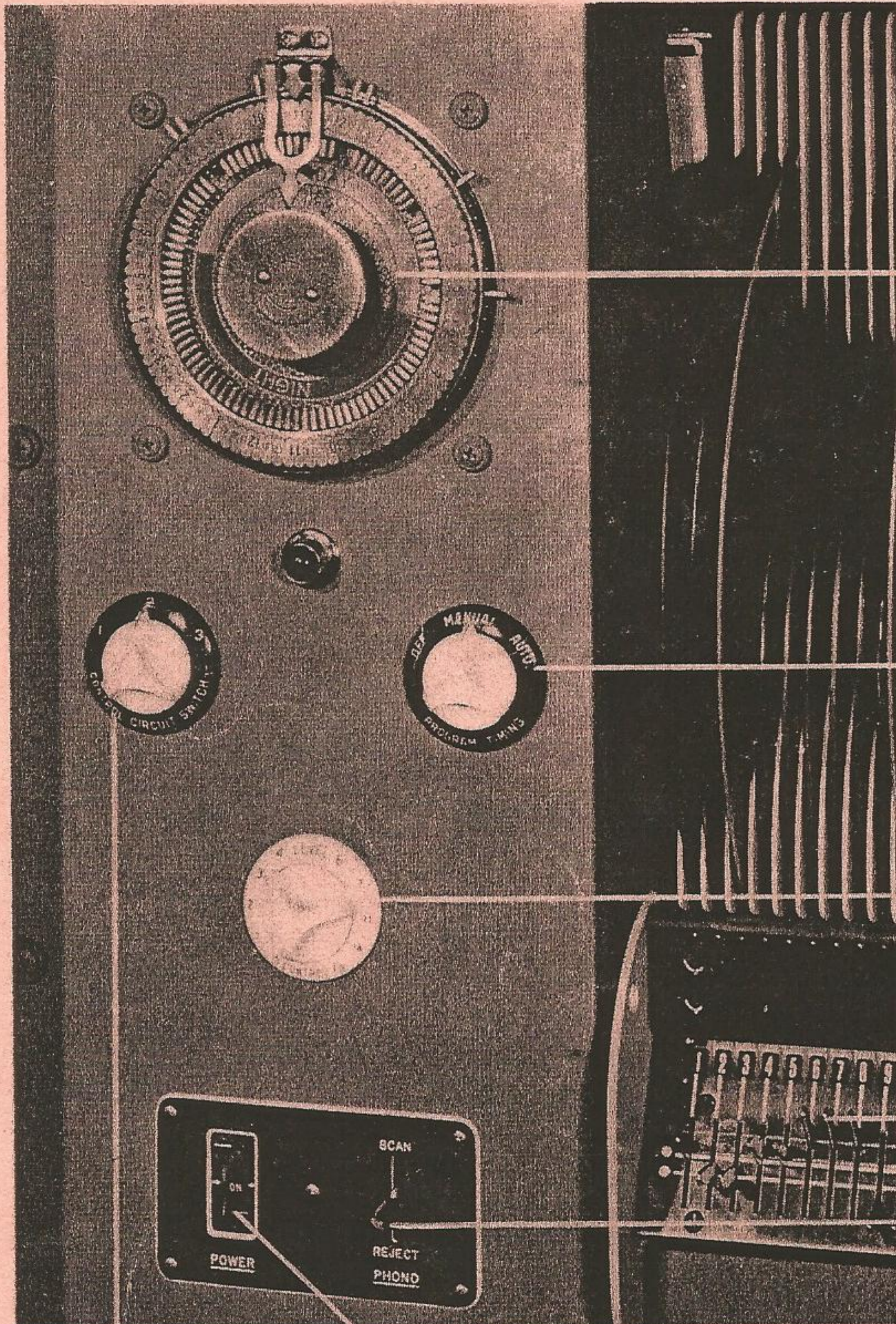
MODEL SLU-1



HR/1M

PART No. 600513

OPERATION INSTRUCTION SUMMARY



PROGRAM TIMER

For Automatic operation. Read instructions, "Program Timer".

PROGRAM TIMING SWITCH

"OFF" for Standby or Paging service only.

"MANUAL" for manual operation of Library and Sound System.

"AUTO" for Automatic Timer operation of Library and Sound System.

LEVEL CONTROL *

Set at _____ to _____

SELECTOR LEVERS

Set for desired program.

SCAN-REJECT SWITCH

Use described in instructions.

POWER SWITCH

Turn "ON"

CONTROL CIRCUIT SWITCH *

Position 1:

Position 2:

Position 3:

* Setting determined by condition of installation. Information to be supplied by Installation Engineer.

OPERATING INSTRUCTIONS

SELECT-O-MATIC LIBRARY UNIT

TYPE SLU-1

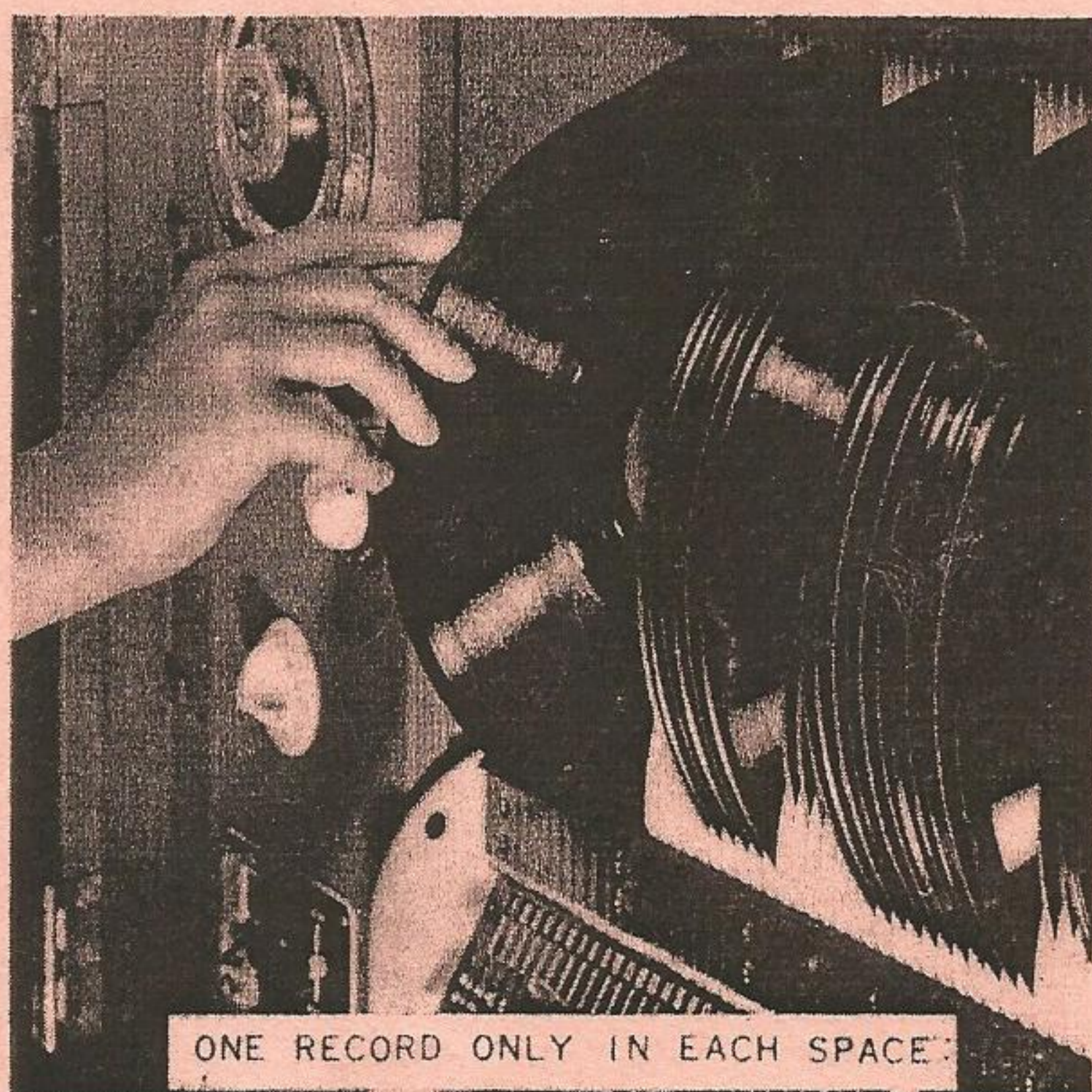
INTRODUCTION

The Select-O-Matic Library Unit, Type SLU-1 is designed for automatic or manual controlled playing of 78 r.p.m., 10 inch or 12 inch commercial records through a previously installed sound system external to the Unit and for control of that sound system to which it is connected. It comprises a Select-O-Matic "200" Library and a Control Panel. When the installation has been completed, the system can be placed in service by filling the Library Magazine with a Library of records, setting the Selection Levers of the Library for the desired program, and operation of the controls on the Control Panel for the type of service required. The following instructions will serve as a guide for correct operation.

SELECT-O-MATIC "200" LIBRARY

The Select-O-Matic "200" Library will play records in selected numerical sequence from left to right and, if both sides of a record are to be played, the side toward the left will play followed by the side toward the right.

LOADING RECORDS



The records are inserted in the Library Magazine *one record* in each record space. Any standard 10 inch or 12 inch 78 r.p.m. commercial records may be used. Arrange the records in the sequence desired starting at the left (Number 1). Ten inch and twelve inch records may be intermixed in any sequence desired.

CAUTION: Do not force the records into the magazine. Any normal record will roll freely into the magazine spaces. If a record has been improperly stored, it may be so badly warped it will bind between the sides of the magazine spaces. Such records would not be properly played and should be discarded or straightened. A warped record may be straightened by pressing it between two pieces of plate glass for a few hours at room temperature. Records not in the Select-O-Matic Library should be stored in albums in a VERTICAL position away from excess heat.

ALBUMS

With albums containing a complete selection on each record side, the sequence is not important and such records may be played in any sequence. Concert types of albums in which selections are carried over from side to side of records should be of STANDARD (MANUAL) SEQUENCE, designated as follows:

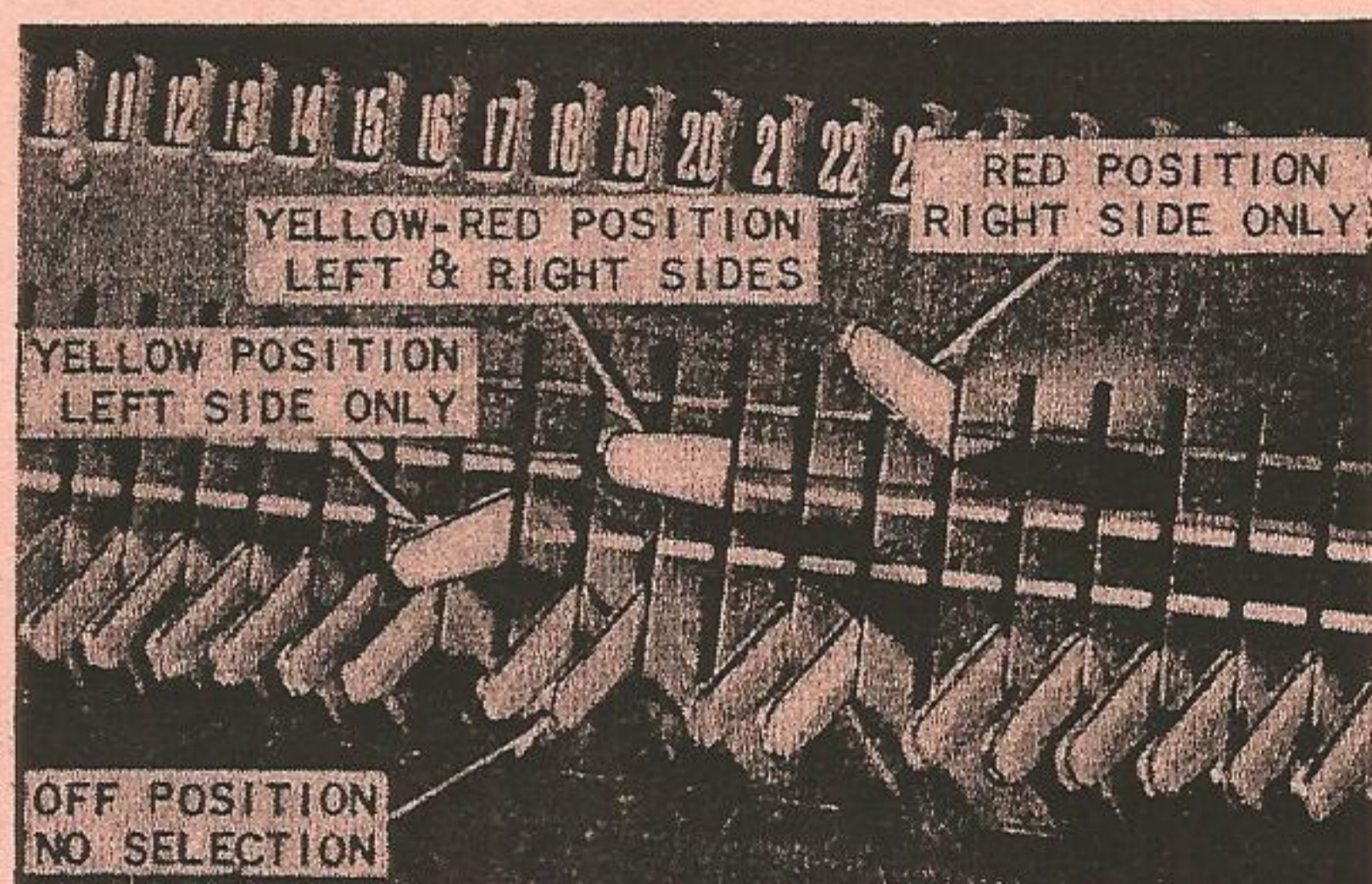
COLUMBIA:	"M" Series - Manual
	"X" Series - Manual (2-Record Album)
RCA-VICTOR:	"M" Series - Manual
DECCA:	"A" Series - Manual

Record Albums of the "Automatic" (Drop Type) Series will not play in proper sequence if included as part of a normally selected program. They may be played in proper sequence by changing the record

positions in the magazine and setting the Selector Levers as outlined under "Selecting Records".

SELECTING RECORDS

The SELECTOR LEVERS are used to select records for a program. There is a LEVER for each record space to control playing of the record in that space. The LEVERS can be moved to any of four positions to determine if a record is to be played and, if played, whether the left side, the right side, or both sides will be played.



In the lowest position of a LEVER the corresponding record will not be played.

With the LEVER set at the YELLOW LINE, (first position as the lever is raised from the lowest position) the Left Side only of the record will be played.

With the LEVER set at the YELLOW AND RED LINE (second position as the lever is raised from the lowest position) both sides of the record will be played -- the Left Side first, then the Right Side.

With the LEVER set at the RED LINE (uppermost position) the Right Side only of the record will be played.

"Automatic" (Drop Type) Record Albums may be played as a separate "program". An example, using a four-record (8 side) album, can best be used to explain the procedure to be followed for correct playing sequence.

Arrange the records in adjacent magazine spaces so record side 1, 2, 3 and 4 will be in numerical sequence from left to right. Record Side #1 faces to the left in magazine space #20 (for example); Side #2 faces to the left in magazine space #21; Side #3 faces to the left in magazine space #22; Side #4 faces to the left in magazine space #23. (See Figure A below).

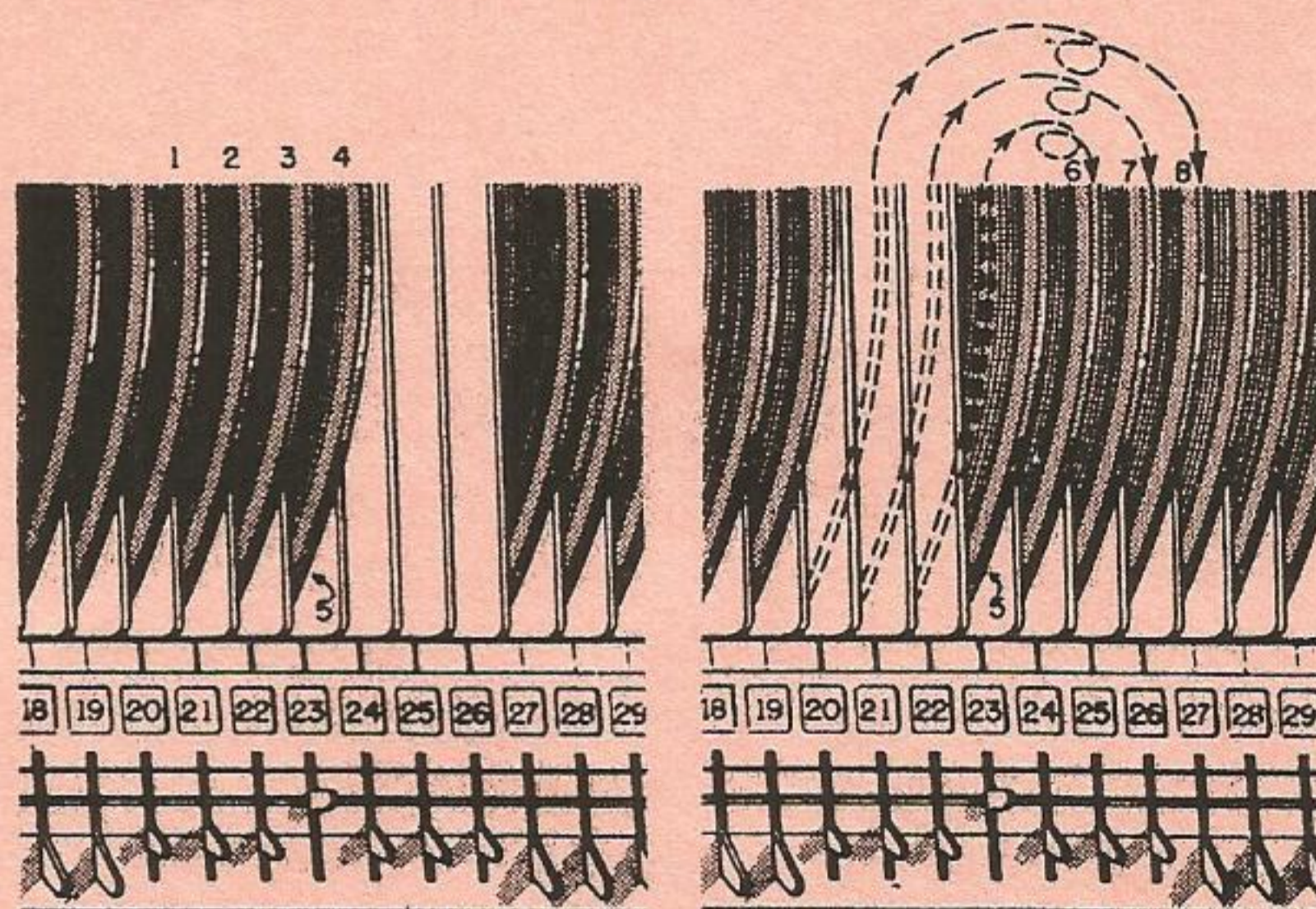


FIGURE A

FIGURE B

Set the SELECTOR LEVERS for space #20, 21 and 22 at the Yellow Line -- Left Side playing only -- and the Lever for space #23 at the Yellow and Red Line -- Left Side then Right Side. Set the SELECTOR LEVERS corresponding to spaces 24, 25 and 26 to the Yellow Line -- Left Side only. All other SELECTOR LEVERS of the Library are set at their lowest (No Record) position. The Unit can now be turned on and will play sides 1, 2, 3, 4 and 5 in correct sequence. While side 4 OR 5 (the record in #23 space) is playing, change the position of the first three records of the album so side 6 will face to the left in space #24, side 7 will face to the left in space #25, side 8 will face to the left in space #26. (See Figure B above). On completion of playing side 5 of the album, the remaining sides (6, 7, 8) will play in correct sequence.

"Automatic" (Drop Type) Albums of any number of records can be played in this manner and without interruption of the program to "turn over the records". However, as pointed out under "Albums",

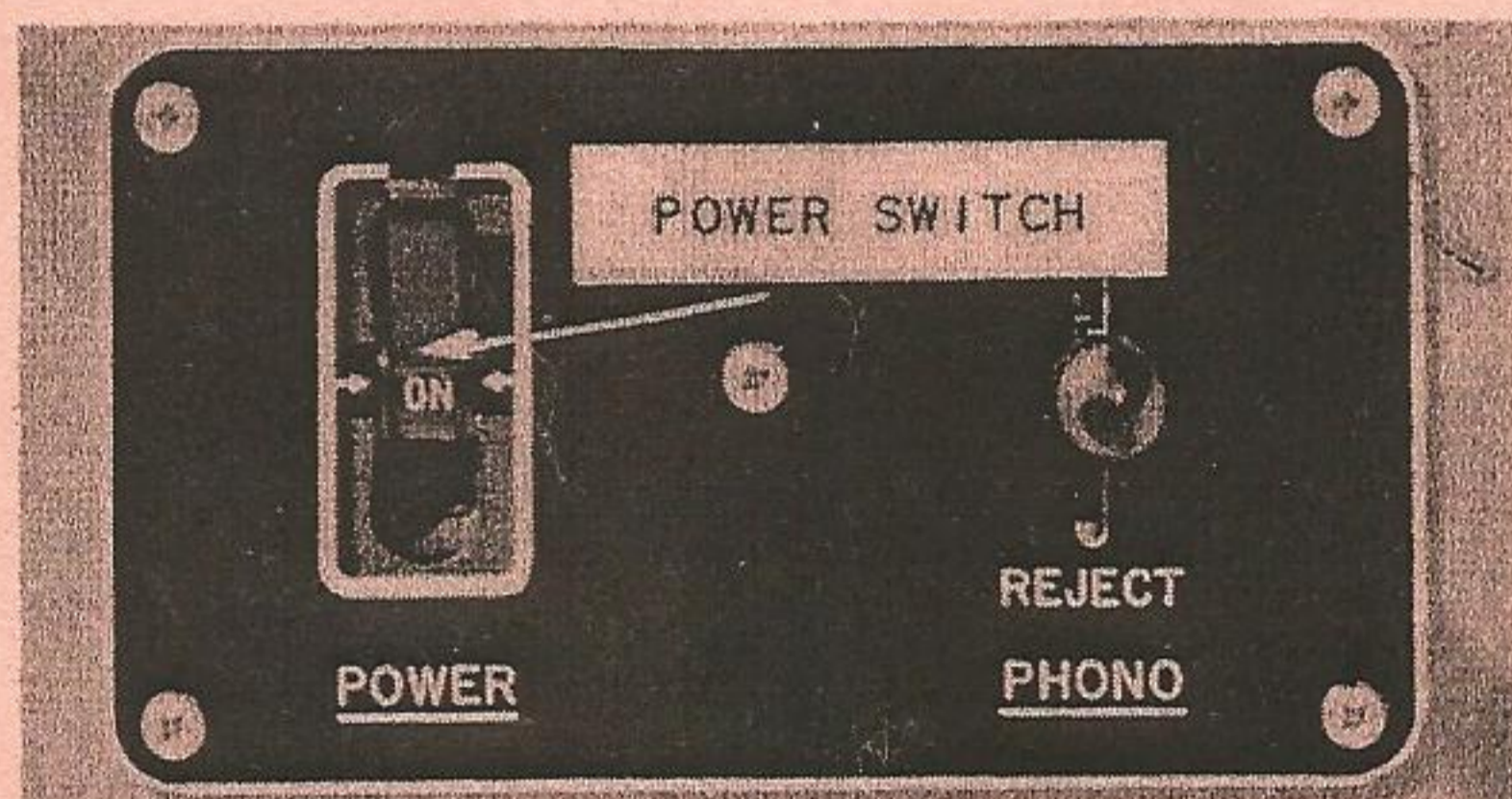
above, they cannot be played as a part of a normal program that includes other records and can, as a consequence, be used only with Manual Operation of the Library.

CONTROL PANEL

The CONTROL PANEL includes the switches and controls for operation and control of the Select-O-Matic Library and may be used for Automatic or Manual control of the sound system to which the Unit is connected. The following paragraphs explain the functions and operations of the five controls and the Program Timer that are a part of the PANEL.

POWER SWITCH

This switch, marked "POWER", is used to turn the Unit on and off and will automatically interrupt the power in event



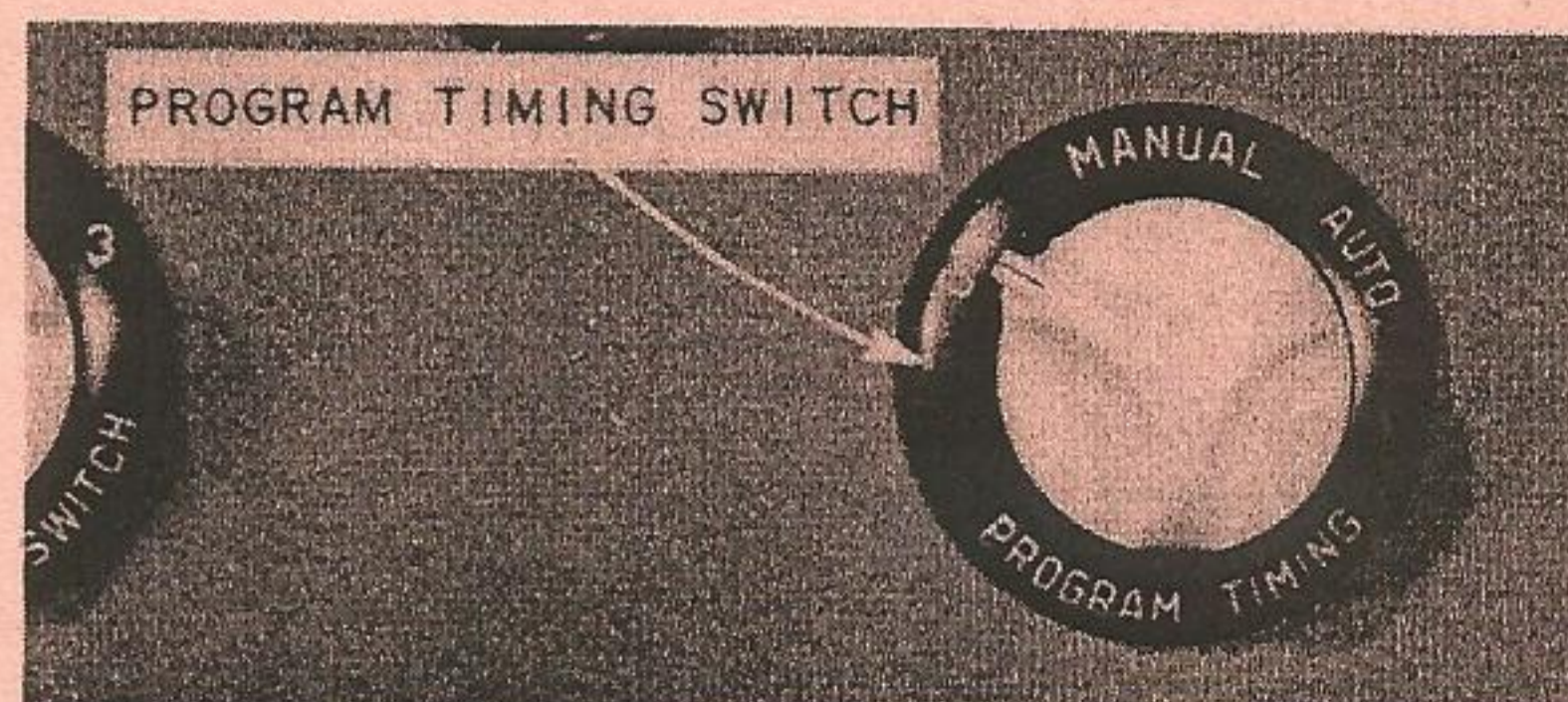
of accidental overload. The SWITCH must be in the "ON" position for "MANUAL" operation of the equipment, and when operation is controlled by the Program Timer, (See "Program Timing Switch"). The illuminated escutcheon and cabinet lighting serve as an indicator by lighting when the SWITCH is "ON".

An additional switch is located at the back of the cabinet and, as a safety feature, is arranged to turn off the power when the rear door of the cabinet is not in place.

PROGRAM TIMING SWITCH

The position of the PROGRAM TIMING SWITCH determines the method of control of the Select-O-Matic Library. In the "MANUAL" position, the Library will play a selected record program when the Power Switch is turned On. In the "AUTO"

position, the Library will be automatically turned On and Off by the Program Timer. In the "OFF" position, the Library will not operate.



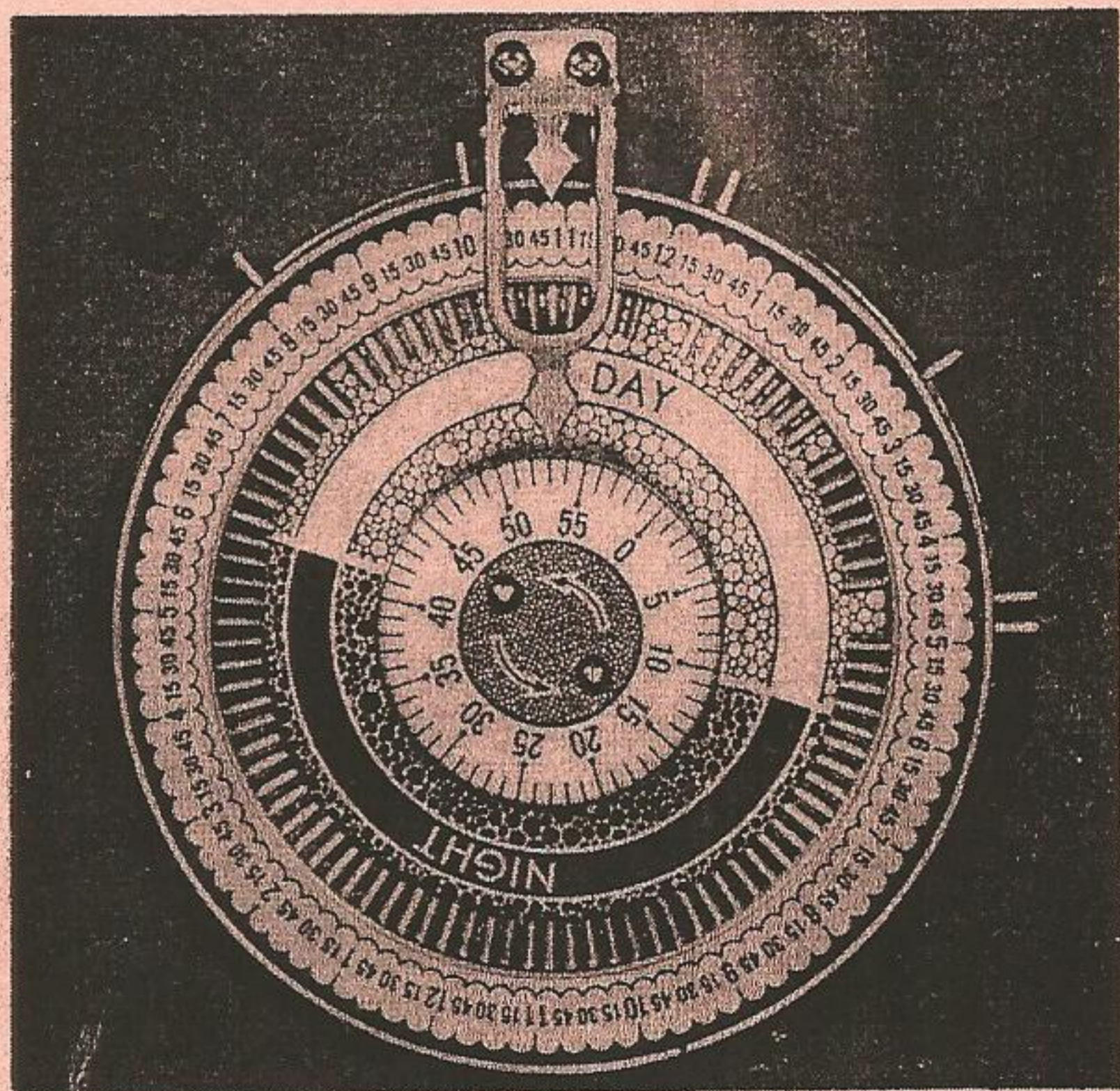
If the Power Switch is turned Off or the PROGRAM TIMING SWITCH is turned to the "OFF" position when a record is playing, the Library will continue to operate until the record has finished "playing" and is returned to the Library Magazine.

PROGRAM TIMER

The PROGRAM TIMER is used for automatic operation of the Unit and will turn it on during any of the ninety-six fifteen-minute intervals of the 24-hour day. The TIMER, unlike a clock, has rotating Dials and fixed Pointers. The outer dial -- 24-HOUR DIAL -- makes one complete turn in 24-hours. The hours are marked in large numbers on the Dial while the fifteen minute periods (15, 30 and 45) are marked in smaller numbers. The Upper Pointer indicates the hour and approximate fifteen minute interval on the Dial and is equivalent to the "Hour Hand" of a clock. Because the hours 1 to 12 occur twice each day, the Dial is divided into two 12-hour halves. The DAY and NIGHT hours are identified by light and dark dial areas with 6:00 A.M. and 6:00 P.M. on the dividing line separating DAY from NIGHT.

The center dial -- the 1-HOUR DIAL -- is marked 1 to 60 for the 60 minutes of the hour and makes a complete turn each hour. The Lower Pointer (equivalent to the "Minute Hand" of a clock) points to the "minute after the hour". Thus, at 10:53 A.M., the 10 in the DAY half of the 24-HOUR DIAL would be near the upper pointer and 53 would be at the tip of lower pointer of the 1-HOUR DIAL.

There are 96 TIMING PINS in the 24-HOUR DIAL -- one for each 15-minute period of the 24-HOUR DIAL. These pins are movable and can be positioned so they extend OUTSIDE the dial rim or INSIDE the dial rim. The PINS extending inside the dial represent OFF periods of the TIMER, the PINS extending OUTSIDE the dial represent ON periods of the TIMER at the time associated with the PINS. The TIMING PINS move with the 24-HOUR DIAL and those in the "ON" position turn on the instrument for a 15-minute interval once in each 24-hours. The PINS remain in the "ON" and "OFF" positions, until changed manually and the "ON" and "OFF" periods are repeated each day if the PROGRAM TIMING SWITCH is turned to the "AUTO" position. (See Program Timing Switch.)



WITH THE TIMER SET AS SHOWN ABOVE.

PROGRAM WILL BE 'ON'

8:00 A.M.	TO	8:15 A.M.
10:00 A.M.	TO	10:15 A.M.
12:00 NOON	TO	12:30 P.M.
2:30 P.M.	TO	2:45 P.M.
4:30 P.M.	TO	5:00 P.M.

AND WILL BE 'OFF' AT ALL OTHER TIMES

SETTING THE PROGRAM TIMER

The PROGRAM TIMER will continue to run unless power fails or the line cord is disconnected at the socket. If it is necessary to re-set the timer proceed as follows:

FOR TIMING ACCURACY WITHIN ONE-HALF MINUTE

1. Be sure that power is available at the TIMER (cabinet light will be on).
2. Note the correct local time.
3. Turn the ONE-HOUR DIAL in the direction designated by the red arrows (on the Dial) until the correct hour on the 24-HOUR DIAL is at the Upper Pointer.
4. Continue turning the ONE-HOUR DIAL until the correct number of minutes after the hour is indicated, by the Lower Pointer, on the ONE-HOUR DIAL.

EXAMPLE: If the correct local time is 2:25 P.M., turn the ONE-HOUR DIAL until "2" on the TWENTY-FOUR DIAL in the DAY area is under the Upper Pointer. Continue turning until "25" on the ONE-HOUR DIAL is under the Lower Pointer.

FOR TIMING ACCURACY WITHIN 5 SECONDS

With the power cord disconnected at the service outlet, slowly turn the ONE-HOUR DIAL of the PROGRAM TIMER in a counter-clockwise direction as indicated by the red arrows on the Dial. Note that as numbers 0, 15, 30 and 45 on the ONE-HOUR DIAL pass the pointer, a distinct click is heard from the TIMER.

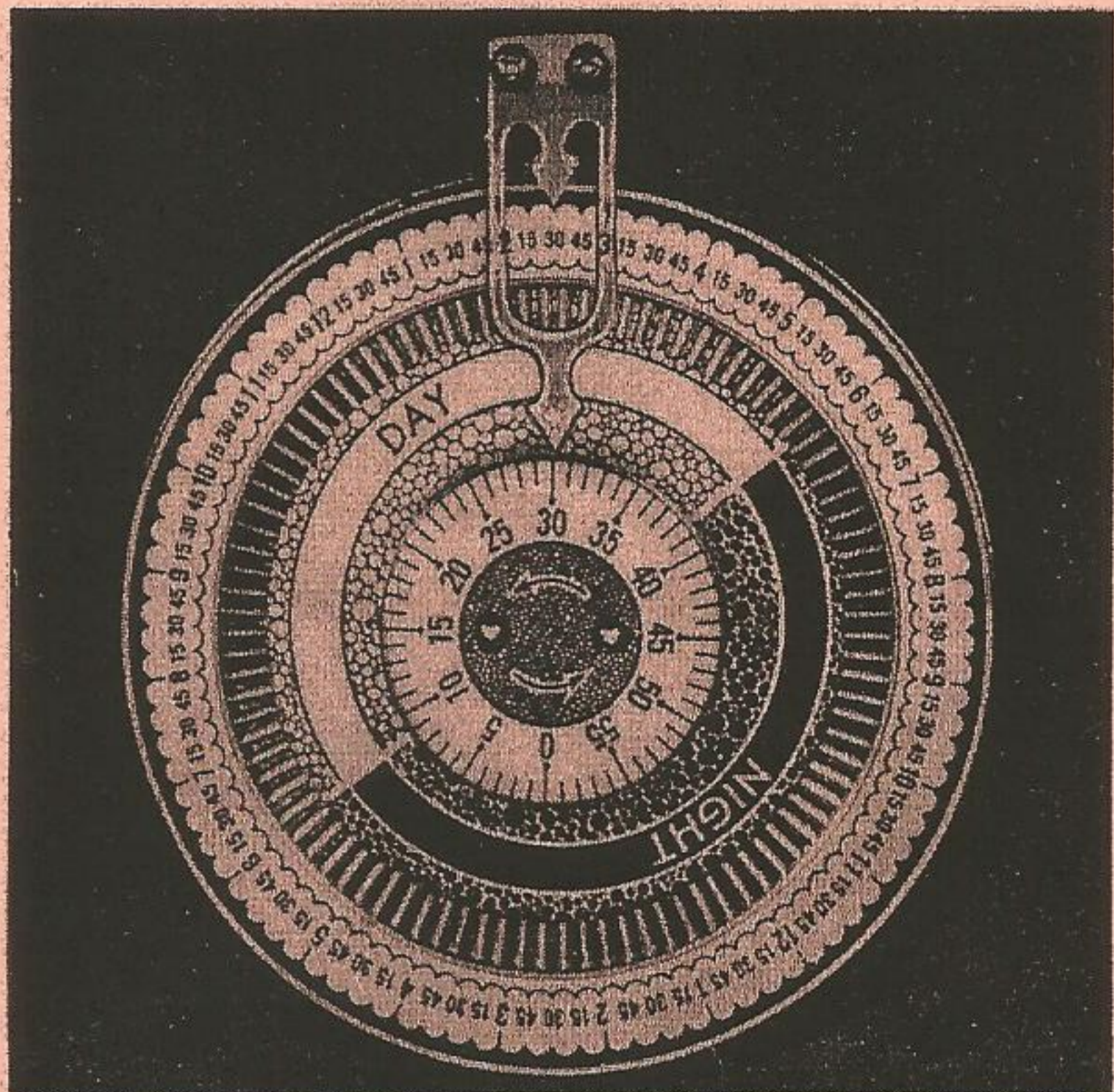
With a watch accurately set to correct local time, note the correct time and slowly rotate the ONE-HOUR DIAL until the TIMER approaches the next fifteen minute period. Stop turning when the "fifteen minute click" is heard.

Wait until correct local time is the same as indicated by the TIMER and at that instant insert the power plug into its service receptacle. The TIMER has now been set and is running at correct local time.

To illustrate the above, assume that the correct time is 2:25 P.M. Proceed as follows:

1. Disconnect the power cord from its service outlet.

2. Turn the ONE-HOUR DIAL until number "2" in the "DAY" area on the 24-HOUR DIAL is at the Pointer.
3. Very slowly continue turning the ONE-HOUR DIAL and as "30" on the ONE-HOUR DIAL approaches the Pointer, listen for the 15-minute click. Stop turning the dial when the click is heard.

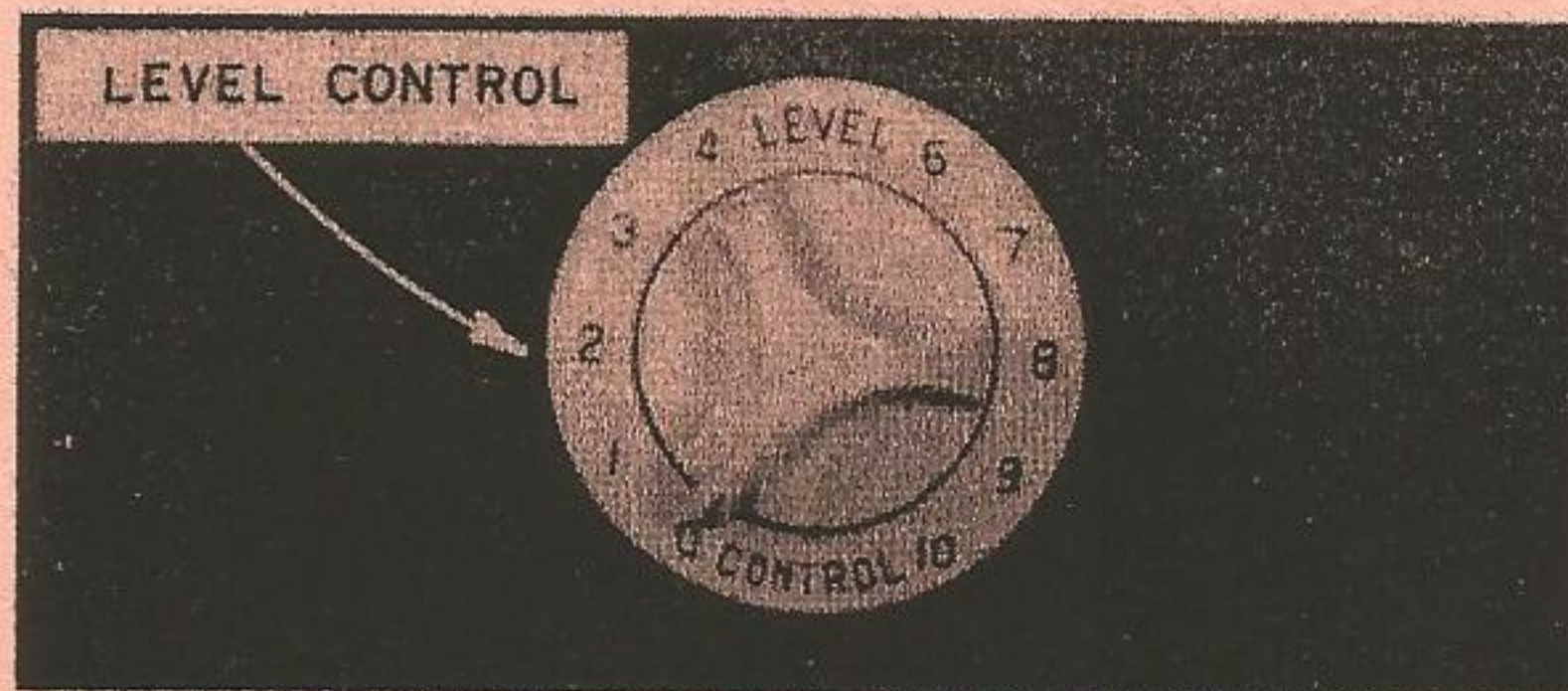


Note: At this setting, the number '30' on the 1-hour dial should be within 1/32nd of an inch from the pointer. If the pointer does not exactly indicate '30' there is no cause for concern because the numbers on the dials have nothing to do with turning on and off the programs. This timing is done by the closing of a mechanically operated switch in the timer which produces the click at each 15-minute interval.

4. Insert the power plug when local time reaches exactly 2:30 P.M. With care, the above method will result in program timing within 5 seconds of local time.

LEVEL CONTROL

The LEVEL CONTROL is used to adjust the volume level of the record program going to the sound system to which the Unit is connected. The initial setting and later use of the CONTROL will be governed by the connected equipment and, because the settings will vary widely for different sound systems, the Installation Engineer



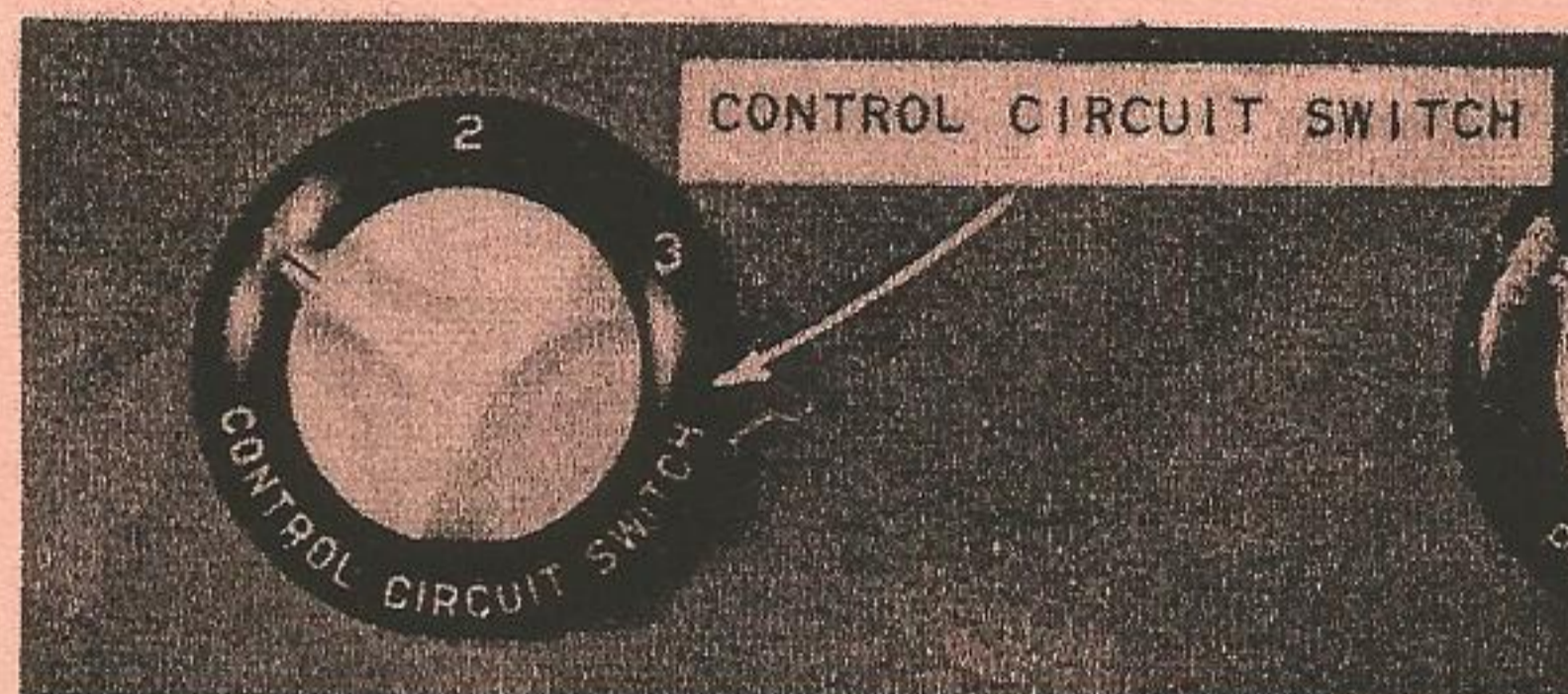
will give the proper instructions for its use.

TONE AND VOLUME CONTROL

No BASS, TREBLE or VOLUME CONTROLS are incorporated in this Unit. Such controls are generally a part of the sound system to which the Unit is connected and should be adjusted for the desired "tone balance" for the sound system and for the records being used.

CONTROL CIRCUIT SWITCH

The CONTROL CIRCUIT SWITCH is for selective control of the Select-O-Matic Library, the sound system to which the Unit is connected, and a Radio or other program

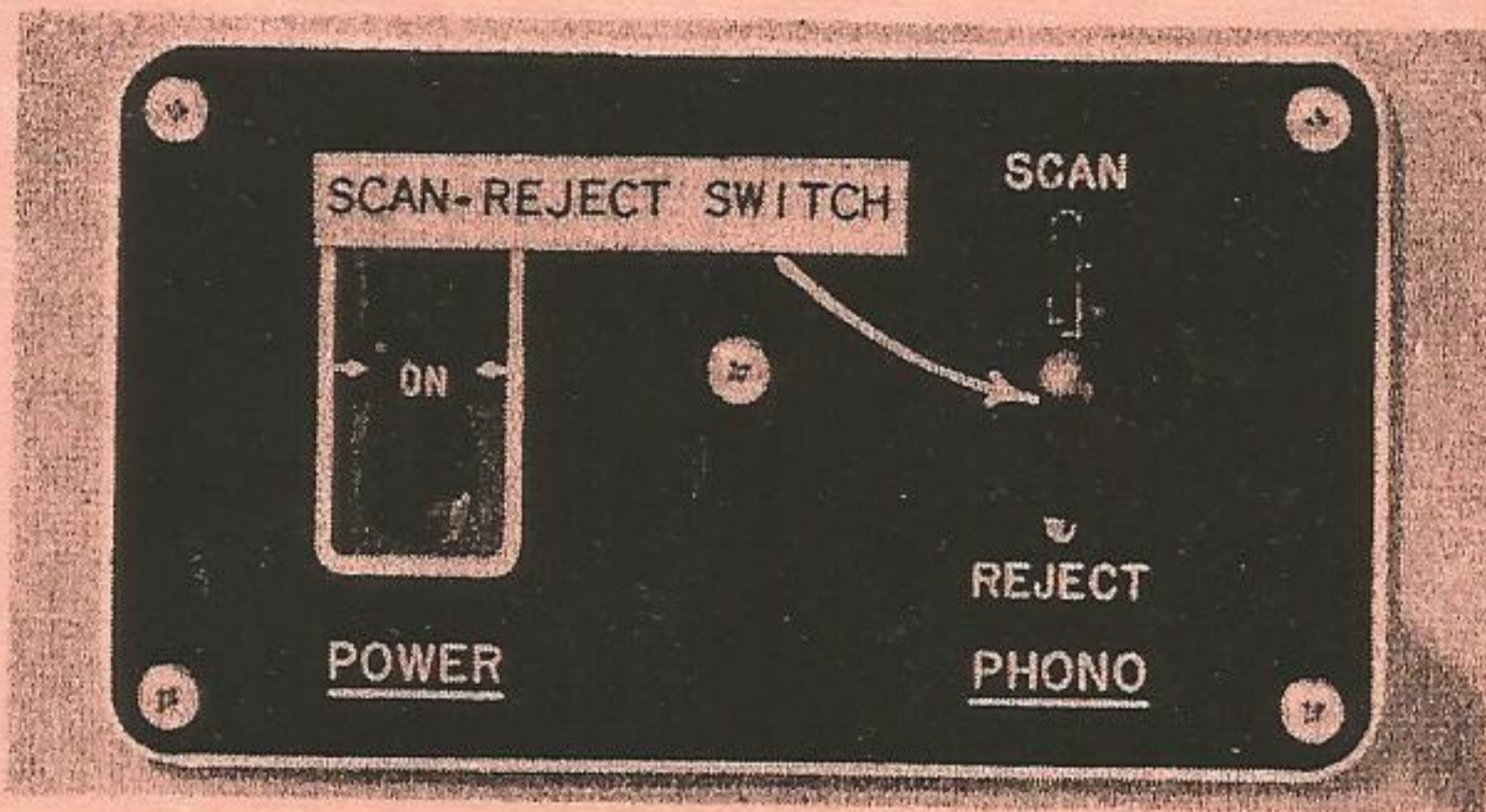


source. The use of the SWITCH will be governed largely by the type and extent of the equipment to which the Unit is connected and will be set according to the instructions given by the Installation Engineer. However, because one of the functions of the SWITCH is to control the Select-O-Matic Library, it will be in Position "1" or "2" when the Library is the Program source and in Position "3" if the Program source is other than the Library.

SCAN-REJECT SWITCH

This is a dual-purpose control used for two control operations of the Select-O-Matic Library. The knob or handle of the SWITCH is normally in a horizontal posi-

tion and can be moved up or down but must be held in the position to which it is moved. When released, the SWITCH returns to its normal position.



REJECT

The SWITCH is moved to and held momentarily in the "REJECT" (down) Position if a selection is to be rejected or cancelled before it has finished playing.

SCAN

The moving part of the Select-O-Matic Library that withdraws a record from the Library Magazine, plays it, and returns it to the Magazine is the Carriage Assembly. This Carriage Assembly travels on a track in back of the records, stopping only for selected records when traveling from Left to Right. The word 'Scan', when referred to the Select-O-Matic Library, is used to identify and describe this movement of the Carriage Assembly. For example, when the Carriage Assembly is traveling from Left to Right it is said to 'Scan' or be 'scanning' from Left to Right. The movement as well as the position of the Carriage Assembly at any time the Library is turned on can be observed from the illuminated record index numbers.

Regardless of the positions of the Selector Levers, the Carriage Assembly will scan past the records without stopping when the Switch is held in the "SCAN" (up) Position. If a selection is playing, it will be necessary to first REJECT it or wait until it has finished playing before moving the SWITCH to the "SCAN" Position.

The SCAN operation is used to move the Carriage Assembly into position for playing a particular selection without having to wait for intervening selections to be played or selected and rejected.

Because the Carriage Assembly does not stop at pre-selected records when the SWITCH is in the SCAN Position, it is not necessary to change or alter the Selector Levers of a pre-arranged program in order to SCAN to the desired selection.

The SCAN operation may be used when the Power Switch is turned off or if the Program Timing Switch is in the OFF Position. It is possible, therefore, without turning on the system, to bring the Carriage Assembly into position for playing the first record of a pre-arranged program of selections.

REMOTE CONTROL

INDUSTRIAL-COMMERCIAL REMOTE CONTROL
TYPE ICRC-1



With this Remote Control, the more commonly used operations of the Control Panel of the Select-O-Matic Library Unit can be performed at a position away from the Unit.

The POWER SWITCH is used to turn on and off the Unit and must be "ON" for operation of the Unit. The red Indicator Light will be lighted when the Power is ON.

The Power Switch on the Control Panel of the Unit must be in the ON Position at all times when the Remote Control is a part of the installation.

The SELECTION REJECT Button is used for rejecting or cancelling selections before they have finished playing and requires only momentary pressure for operation.

The LEVEL CONTROL is used to adjust

the volume level of the record program going to the sound system to which the Unit is connected. The initial setting and later use of this CONTROL will be governed by the connected equipment and, because the settings will vary widely for different sound systems, the Installation Engineer will give the proper instructions for its use.

The Level Control on the Control Panel of the Unit is not used or in service when the Remote Control LEVEL CONTROL is a part of the system.

SPECIAL PRECAUTIONS

1. Do not cover the cabinet with drapes or cloths or enclose it so normal circulation of air through the cabinet will be restricted.
2. Do not place the Unit against a hot air duct opening, near a hot stove, or near a radiator where high temperature air will be circulated into the cabinet.
3. Do not put more than one record in a magazine space.
4. Do not force a record into place. If it does not roll freely into place, it should not be used.
5. Do not use records that are cracked or chipped because the styluses in the pickup may be damaged.
6. Do not use badly worn or dirty records. The reproduction from such records can not be made to sound pleasant. They should be discarded.
7. Do not push the records back beyond their normal position in the magazine.
8. Do not attempt to play "odd-size" records or home recordings.
9. Do not attempt to remove a record that is being handled by the mechanism.
10. Do not force the 1-hour dial of the Program Timer in the wrong direction.

Turn it only in the direction indicated by the red arrows.

CARE OF RECORDS

A little care will greatly prolong the life of records and add to the quality of sound reproduction. When not in the Library magazine, they should be stored in albums in a vertical position. Excessive heat will soon warp them. Keep them in a cool dry place out of the sun and away from stoves, radiators, or hot air duct outlets.

Keep the records clean by occasional wiping with a soft dry cloth, using a circular motion. The use of oily preparations for cleaning is not recommended as this tends to collect dust which has an abrasive action when the stylus runs through the record groove.

Very dirty records may best be cleaned with a hand brush using a mild soap and room temperature water. Scrub gently with a circular motion, rinse thoroughly with cool tap water, and wipe dry.

Records that have become warped due to incorrect storage will wear rapidly and cause undesirable "surface noise" when being played. These records can be straightened by pressing them between two pieces of plate glass for a few hours in a warm (not hot) room.

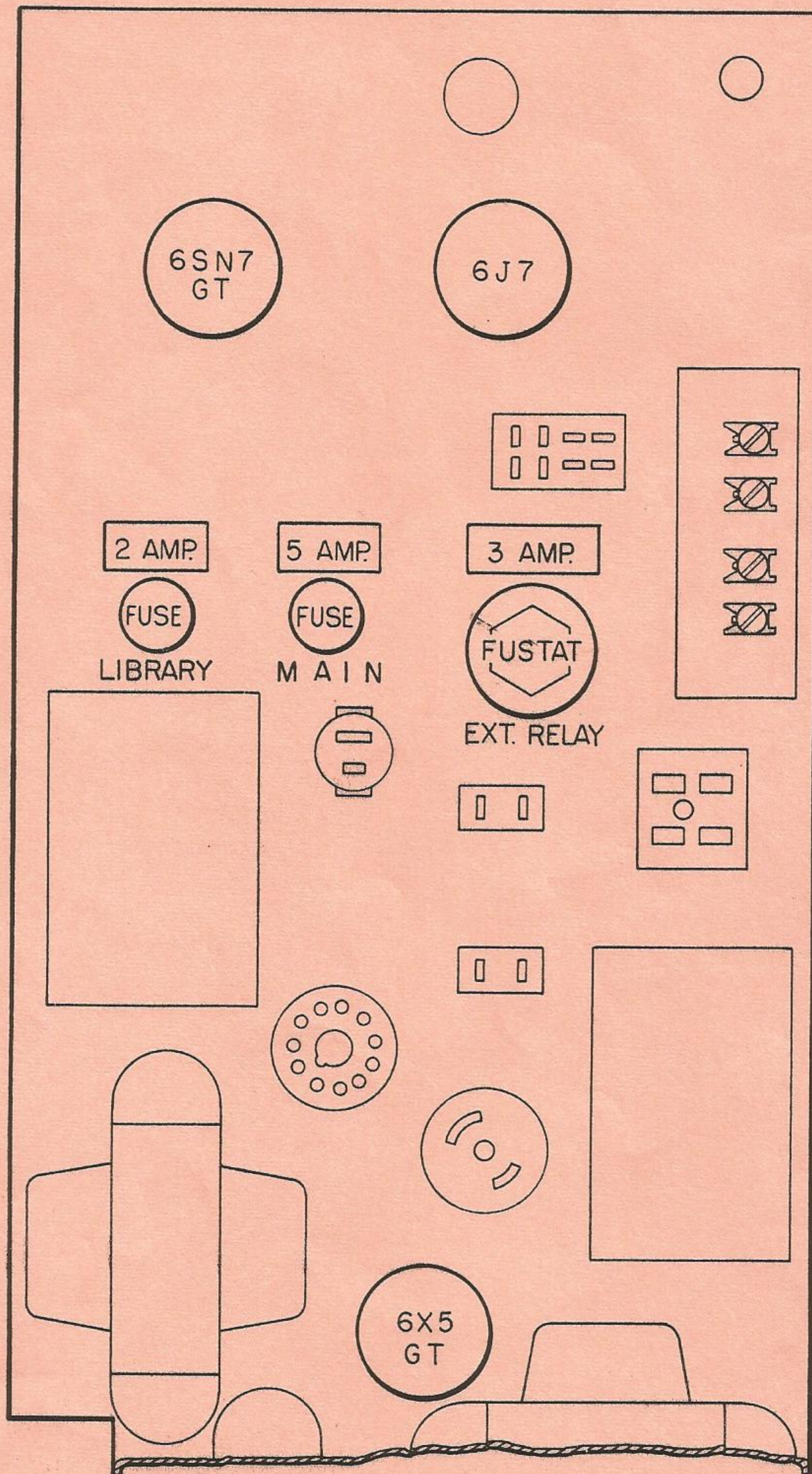
MAINTENANCE

LUBRICATION

To insure the continuous superior performance of which the Select-O-Matic Library is capable, it is advisable to clean and lubricate it at regular intervals. Heat and dust conditions as well as the amount of daily service will determine how often this should be done. With normal prevailing conditions, and average playing time of three hours per day, the unit should be serviced once in six months. More favorable conditions and less daily average use will require proportionately less frequent maintenance service.

CONTROL PANEL TYPE CPI-L6
(REAR VIEW)

TUBE AND FUSE POSITIONS



PICKUP STYLUSES

The quality of the sound reproduction and the life of the records will be influenced by the condition of the styluses (needles) in the Library Pickup cartridge. Badly worn styluses can usually be detected by poor quality reproduction of the higher tones. They should not be used for more than 200 hours of record playing and to insure the best tone quality and record life, should be replaced with the same type originally supplied. They are available from your dealer as Seeburg Part #600076.

TUBES

Three tubes are used in the Control Panel. These are:

- 1 - 6J7
- 1 - 6SN7GT
- 1 - 6X5GT

The tubes are operating well within the limits recommended by the tube manufacturers and should require no more attention

than accorded the tubes used in a radio receiver.

FUSES

The circuits of the Library Unit are protected from accidental overload by the Power Switch which is also a "circuit breaker" and by three fuses. The sizes and types are as follows and should be replaced, if necessary, only with the same size and type supplied as original equipment:

- 1 - 5 amp., 3AG
- 1 - 2 amp., 3AG
- 1 - 3 amp., Fustat

The fuses are part of the Control Panel and are accessible from the rear of the unit. Labels at each fuse holder indicate the size and type used for each position.

CABINET LIGHTING

The cabinet is lighted with 10 Mazda #81, Frosted, 6-volt automobile type lamps. Replacement lamps may be obtained from your dealer as Seeburg Part No. F402180.

WARRANTY

J. P. Seeburg Corporation warrants this instrument, manufactured by it, to be free from defects in material or workmanship under normal use. Our obligation under this warranty is limited to making good at our factory any part or parts thereof which shall, within ninety days after delivery of such product to the original purchaser, be returned to us or to our authorized dealer or distributor from whom purchased with all transportation charges prepaid to our factory, and which our examination shall disclose to our satisfaction to have been thus defective.

This warranty does not extend (1) to any of our products which have been subject to misuse, neglect, accident, incorrect wiring not our own, improper installation, or to use in violation of instructions furnished by us, (2) to units which have been repaired or altered outside of our factory, (3) to cases where the serial number of the product has been removed, defaced or changed, (4) to tubes or lamps, or (5) to accessories not of our own manufacture used with our products.

Any part found by us to be defective will be exchanged by the authorized dealer or distributor without charge to the owner.

This warranty applies only to our products which are used within the continental limits of the United States of America and is in lieu of all other warranties expressed or implied, and no representative or person is authorized to assume for us any other liability in connection with the sale of our products.

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SEEBURG INDUSTRIAL  COMMERCIAL MUSIC

