

# Operating Guide

TO HELP YOU  
ENJOY YOUR NEW

*Zenith*

COBRAMATIC RECORD PLAYER



MODEL S-9010

USING CHASSIS No. 4L02

## ***There's A World of Entertainment and Pleasure In Your New Zenith Cobramatic Record Player***

This new Zenith Cobramatic Record Player offers you a new measure of complete listening pleasure. With it you will enjoy . . . (1) the finest in record reproduction as made possible by Zenith Cobra Tone Arm and the Cobramatic Record Changer . . . (2) amazing 3-way Cobra Tone Arm which employs the radionic-wave principle for superb, dependable reproduction of 78 R.P.M. standard records, 33 1/3 R.P.M. Long Playing Microgroove records, new 45 R.P.M. Microgroove records.

The "Microgroove" process makes possible the recording of a full six record album on just one record. Thus a full-length symphony or concerto, or a complete selection of dance or dinner music can be played from one disc. A full loading of ten 33 1/3 R.P.M. microgroove records will give several hours of enjoyable listening pleasure.

This revolutionary new record, made of nonbreakable vinylite, permits a high quality, noise free reproduction whose high fidelity heretofore was found only in master studio recordings. A full issue of both classical and popular records of this type are now available for your enjoyment.

The new type of tone control is continuously variable. When low notes are reduced, the high registers at the same time are given extra emphasis. When the "highs" are reduced, the lower tones are given an added emphasis. In the normal position (center) both highs and lows are given full tonal value.

Before you attempt to operate your new Zenith Cobramatic Record Player, we urge that you read this entire booklet carefully. You will be amply repaid for the time you take to do this by the added pleasure and satisfaction you derive from the proper operation of this new Zenith musical instrument.

## POWER SUPPLY AND OUTPUT

Your Zenith Cobramatic Record Player is designed for operation on 110 to 125 volts, 60 cycle alternating current (AC) only. Do not attempt to operate on direct current (DC), or damage will result. If you are not certain of the type, voltage or frequency in cycles of your electricity, check with the electric company.

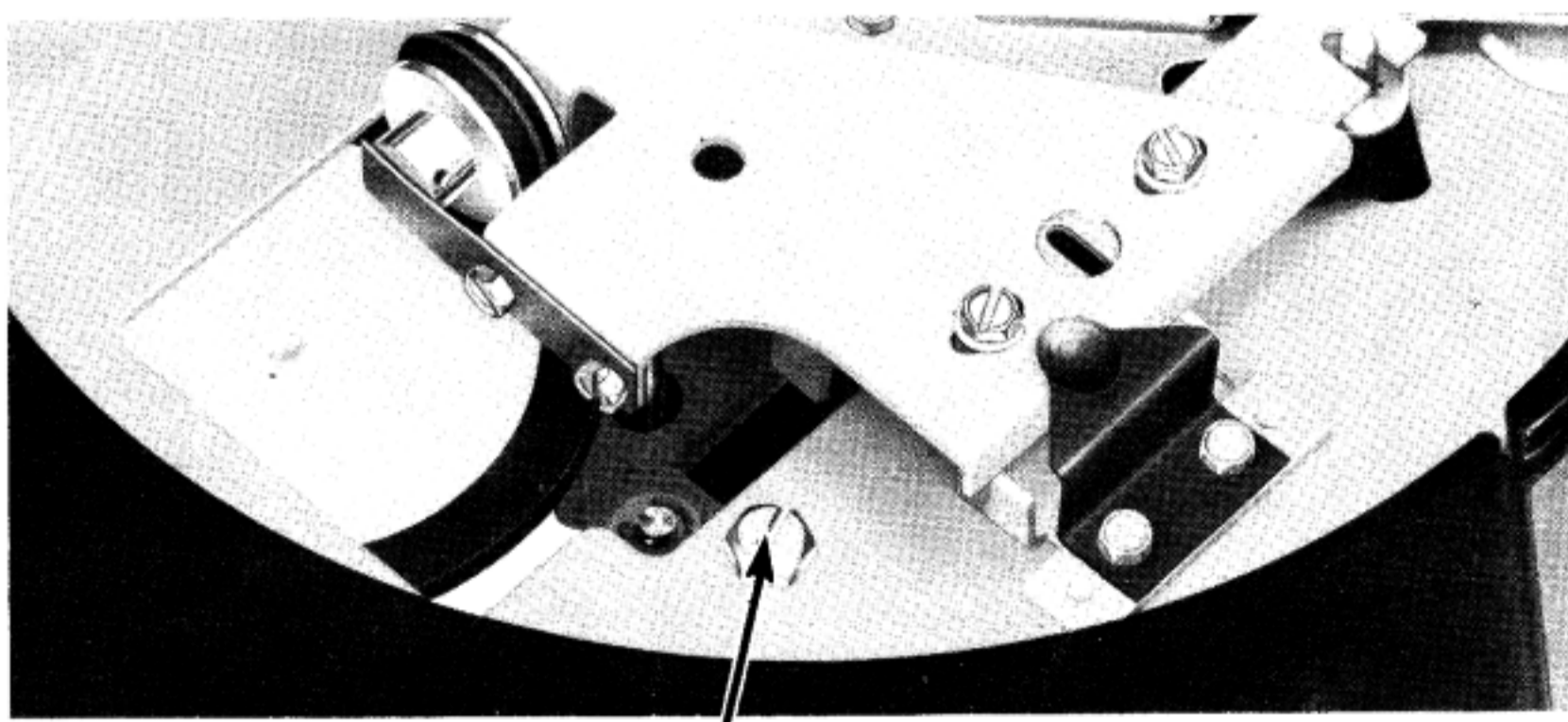
Power consumption of the entire unit, including the record changer, is 45 watts. The maximum audible power output of this receiver is 2.6 watts. This power output means that you have ample reserve above the requirements for any ordinary need.

## UNPACKING

The record changer has been securely packed to avoid damage in shipment. Remove all packing material before attempting to operate this changer.

Before operating the record changer, the turntable must be removed from the record changer by lifting it upward and the red stained shipping bolt holding the phono motor assembly must be removed. This bolt is visible when the SPEED SHIFT LEVER is moved to OFF position. (See fig. 1.) Remove this red-stained motor shipping bolt and be certain to retain it for use in re-shipment.

In addition to this, the record changer must be floated for proper operation. To do this, use a wide blade screwdriver and turn the three mounting bolts clockwise until the heads are flush with the mounting plate. (See Fig. 3.)



REMOVE MOTOR MOUNTING BOLT

Figure 1—Motor Mounting Bolt

To place the instrument in operation, turn the Volume Knob (See Fig. 2) to the right or clockwise. Allow about 30 seconds for the tubes to reach operating temperature, and then proceed as instructed under "Operation of the Cobra-Matic Changer."

The Volume Control can then be turned clockwise, or counter clockwise to either increase or decrease the volume as desired.

The desired tone can be obtained by rotating the Tone Control either clockwise or counter clockwise. (See Fig. 2.)

To turn the unit off, first stop the changer by moving the Speed Shift Lever to Off position, and then rotating the Volume Control Knob counter clockwise until a click is heard.

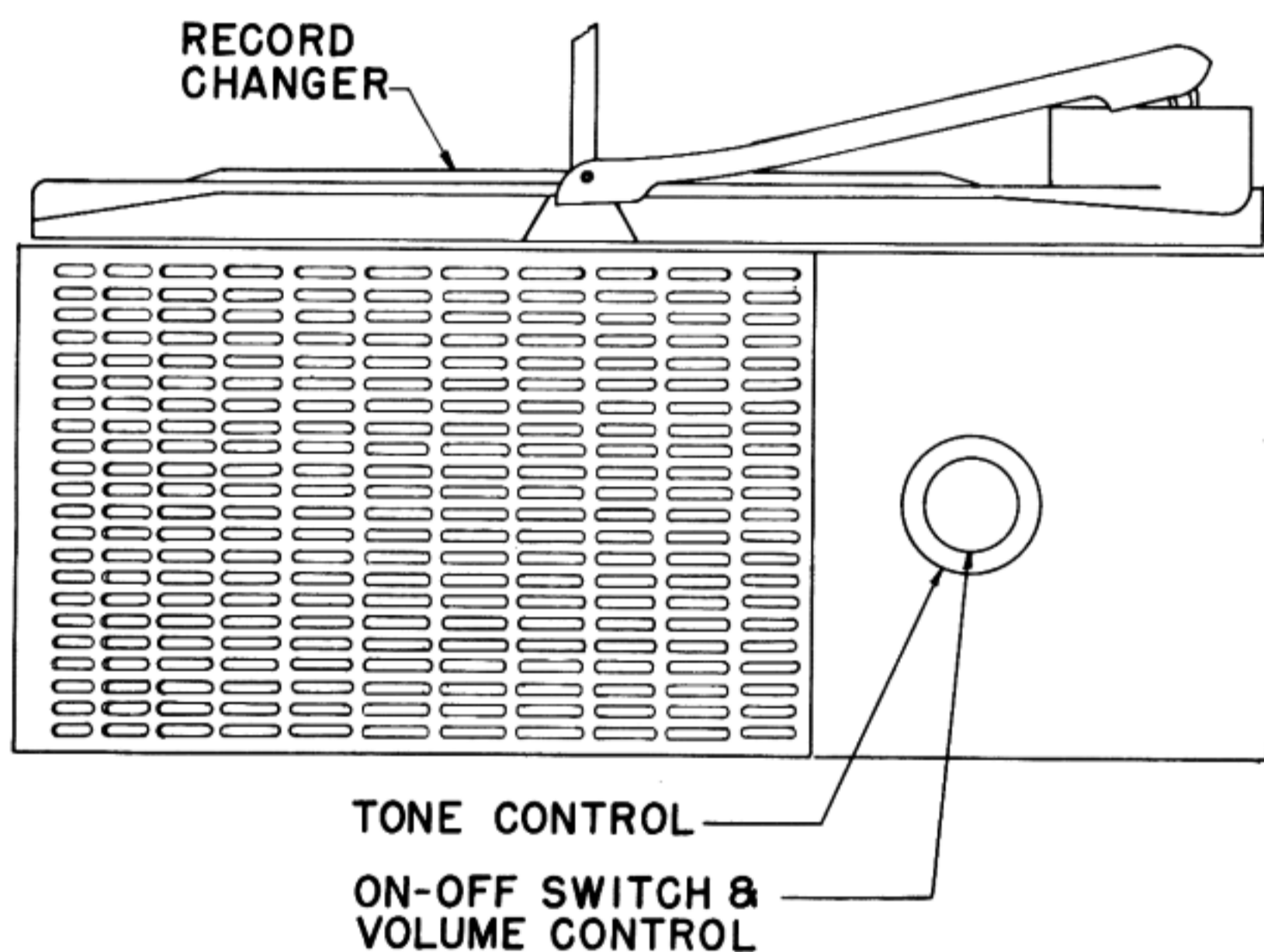


Figure 2—Front Panel

## TONE CONTROL

This new type of tone control is continuously variable (See Fig. 2). When low notes are reduced by turning the control clockwise, the high registers at the same time are given extra emphasis. When the "highs" are reduced by turning the control counter-clockwise, the lower tones are given an added emphasis. In the normal position (center) both highs and lows are given full tonal value.

# Operation of the Cobramatic Changer

## LOADING THE CHANGER

For automatic operation on 33 1/3, 45 and 78 R.P.M. records.

1. Raise record pressure arm from spindle and move to right (See Fig. 4).
2. Place the stack of records over spindle and replace record pressure arm (See Fig. 5).
3. When placing records on the spindle be certain to hold these records firmly until the pressure arm is placed over the records. This will prevent the records from prematurely falling to the turntable.
4. The record stacks may consist of the following groups:
  - A. Ten 10 inch 78 R.P.M. records.
  - B. Ten 12 inch 78 R.P.M. records.
  - C. Ten 10 inch 33 1/3 R.P.M. records.
  - D. Ten 12 inch 33 1/3 R.P.M. records.
  - E. Ten 7 inch 45 R.P.M. records.
  - F. Ten 7 inch 33 1/3 R.P.M. records.
5. Do not intermix different size or type records.

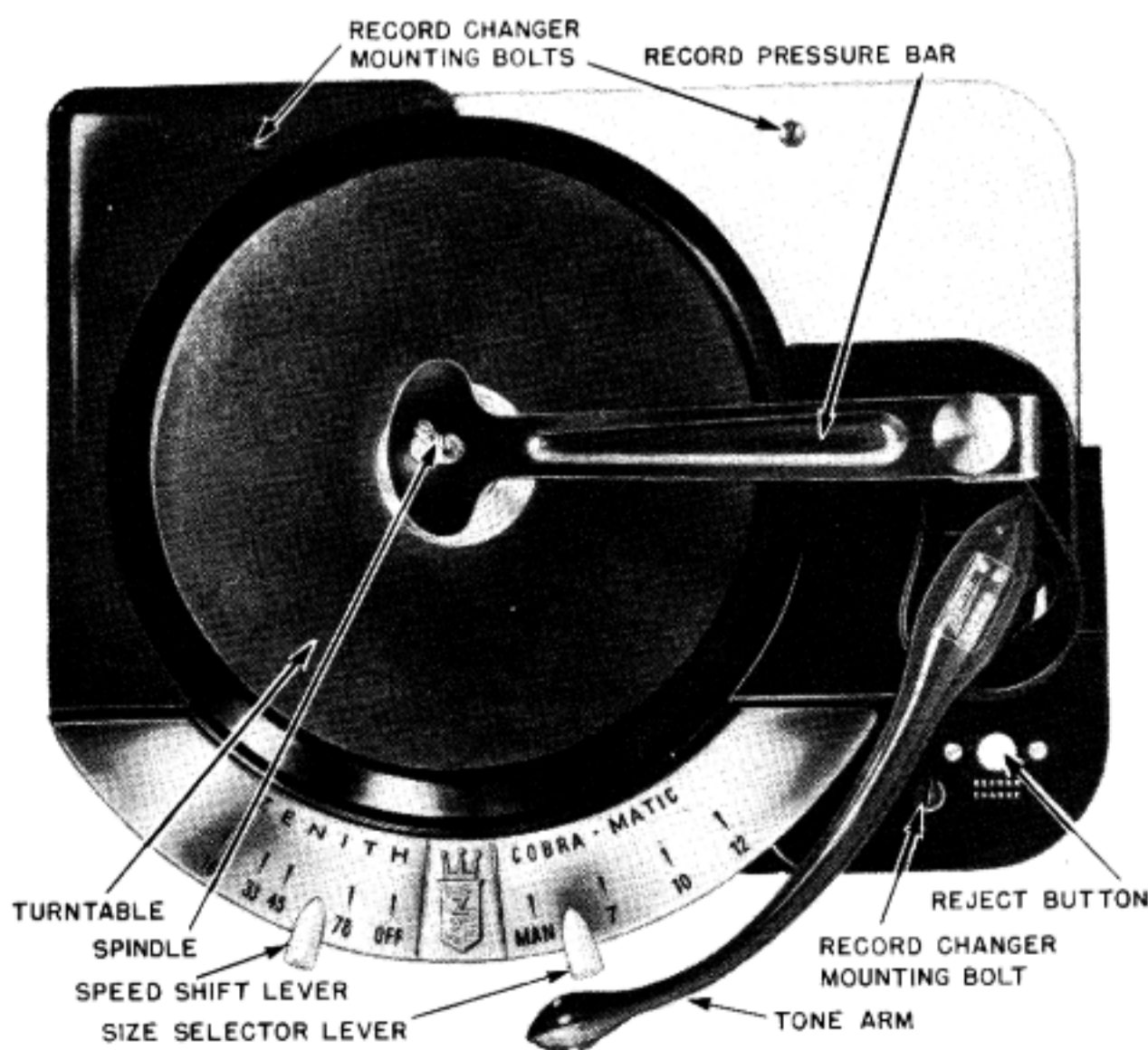


Figure 3—Record Changer, Top View

## STARTING THE CHANGER

1. Set the **SPEED SHIFT LEVER** for the R.P.M. of the records to be played. This automatically turns the changer on.

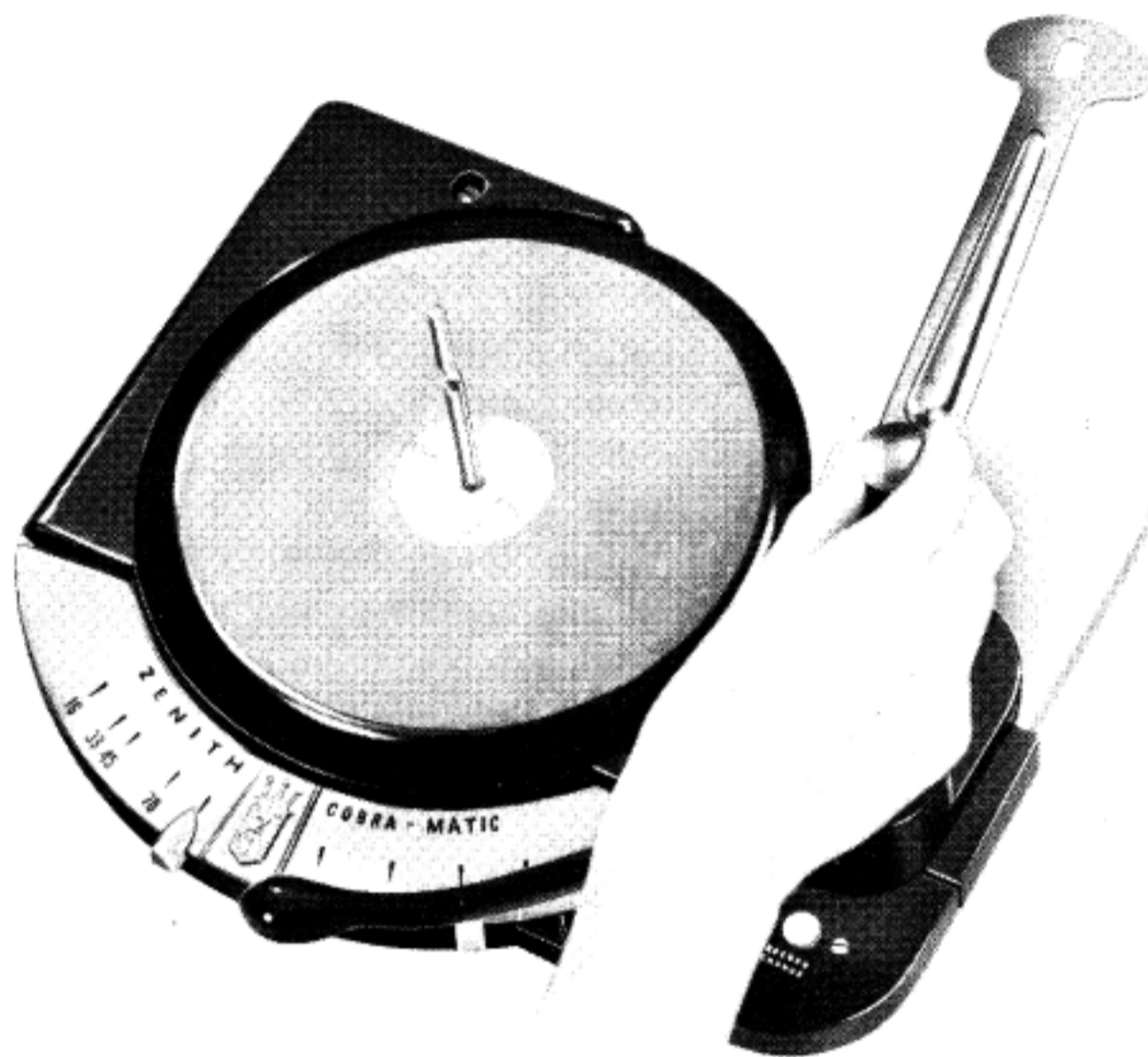


Figure 4—Moving the Pressure Arm



Figure 5—Loaded Record Changer

2. Set the **SIZE SELECTOR LEVER** for the size records to be played.
3. Press the **REJECT BUTTON** on the changer. Should you desire to reject a record, repeat the above operation. This will allow the next record to be played.
4. The changer will continue to repeat the last record until the **SPEED SHIFT LEVER** is moved to **OFF** position.

## **TURNING THE CHANGER OFF**

### **CAUTION:**

**BE CERTAIN THE SPEED SHIFT LEVER IS IN THE OFF POSITION WHEN THE CHANGER IS NOT OPERATING, OTHERWISE DAMAGE TO THE DRIVE MECHANISM MAY RESULT.**

1. Set the **SPEED SHIFT LEVER** to **OFF**.
2. Lift the tone arm and move it to the position shown in Fig. 6.



**Figure 6—Removing Records from Changer**

## **UNLOADING**

To remove the record stack from the turntable after the last record has been played, proceed as follows:

1. Raise record pressure arm and move to right (See Fig. 6).
2. Raise the record stack, or as many records as you can conveniently handle **straight up** until the records are entirely clear of spindle. Do not put pressure on the record stack with the thumbs when lifting the stack (See Fig. 6).

## **MANUAL OPERATION**

1. Raise the record pressure arm and move it to the right (See Fig. 4).
2. Place single record on turntable.
3. Adjust the **SPEED SHIFT LEVER** to speed of record.
4. Set the **SIZE SELECTOR LEVER** to **MANUAL**.
5. Lift Cobra tone arm and place it on record.

## **INSERTING CENTER HOLE ADAPTORS**

Figure 7 illustrates two type inserts for the 45 R.P.M. large center hole records. By merely pressing the insert into the center hole of the record they can be fastened securely. These inserts can be purchased at your local record shop.

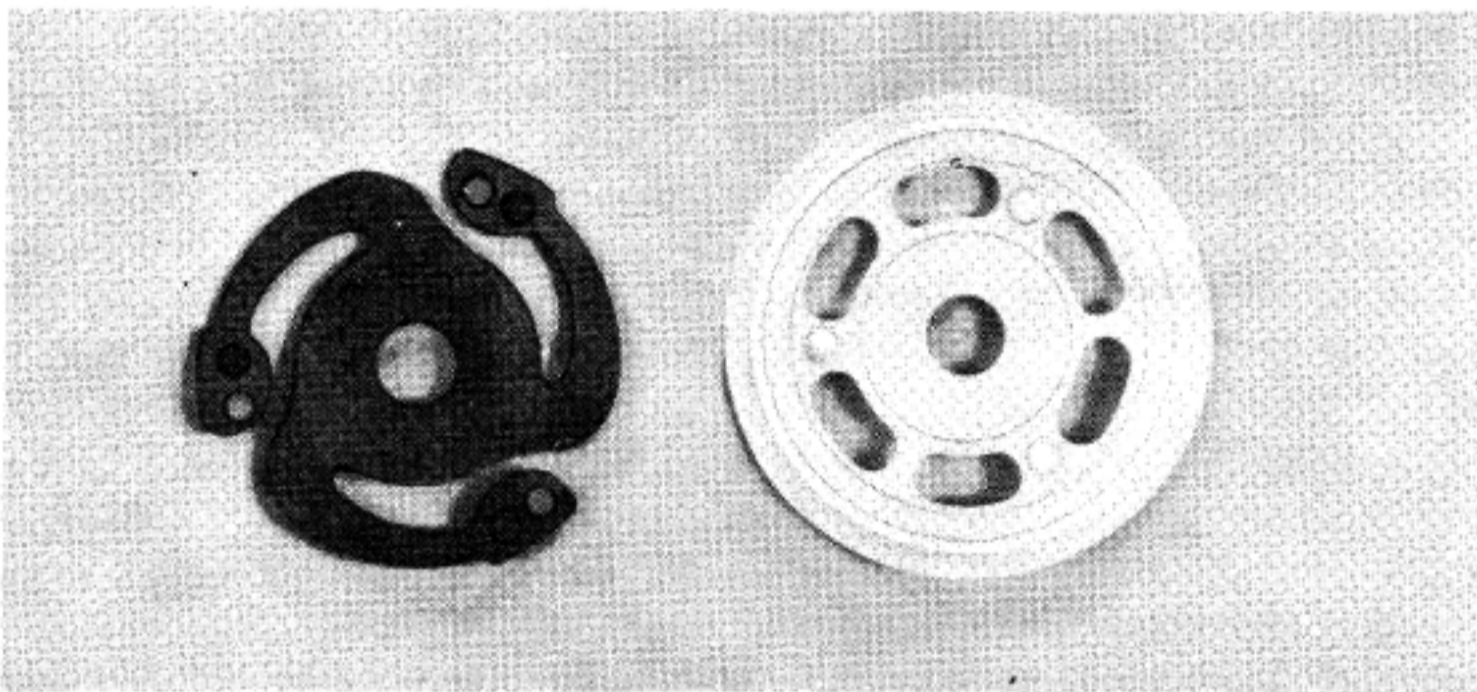


Figure 7 — Center Hole Inserts

## **CAUTION**

BE CERTAIN WHEN REPLACING THE CARTRIDGE THAT ONLY A RED-GREEN CARTRIDGE IS USED FOR REPLACEMENT. THE USE OF ANY OTHER COLORED CARTRIDGE WILL DAMAGE THE RECORDS.

## **CHANGING THE NEEDLE CARTRIDGE**

If it becomes necessary to change the Needle Cartridge due to wear or mishandling, proceed as follows:



1. Set the **SPEED SHIFT LEVER** to **OFF** position.
2. Raise the **Tone Arm**.
3. Grasp the **Needle Cartridge** with the finger tips and gently pull it straight out.
4. Insert a new **Needle Cartridge** and push it in gently with the thumb. The Cartridge is indexed and can only be inserted one way. Use care—forcing the cartridge in at the wrong angle will damage the socket. Study **Figure 8**.



Needle Cartridge Out



Inserting Needle Cartridge

Figure 8—Replacing the Needle Cartridge

## CARE OF RECORDS

Small effort on your part will insure long life for your records. Do not expose them to heat from the sun, radiators or stoves. Store your records in albums in a cool, dry place resting vertically or horizontally. Remove dust and dirt with a soft cloth using light circular motion. Even a fine film of dust often contains abrasive particles which, when ground against the record surface by the needle, may cause very rapid wear.

1. Excessive scratch and poor tone quality are usually caused by worn or warped records. The amount of surface and background noise on new records will vary, depending on the quality of manufacture, the type of music recorded, and the care given the records. An occasional squeak may be heard. This may be caused by friction between the spindle and the records on the turntable. A thin application of wax or paraffin to the lower part of the spindle will eliminate the squeak.

2. Never allow records to remain on the spindle when the Record Changer is not in use. To do so may result in warping of records and failure of the changer to play such records.
3. Thin substandard records may drop double into playing position.
4. Thick substandard records may not slide down in playing position.
5. Occasional soft records may chip and wear out quickly at the center hole.
6. Warped or dished records, or records with bulging center holes will slip on the turntable stack and not properly drive records above. This causes "wows" and uneven speeds.

## **TUBES**

The Patent Label attached to the cabinet indicates the location of the various tubes in the chassis. We suggest that tube replacements be made by your Zenith service man. However, if it should ever be necessary for you to do this yourself, the Patent Label will indicate type and location of each tube.

## **SERVICE**

The Zenith Automatic Record Changer is constructed with a minimum of working parts, and its operation is simple and reliable. As is the case with all mechanical devices, minor adjustments may occasionally be necessary. Call your authorized Zenith dealer for professional service when required.



## Warranty

Zenith Radio Corporation warrants each new Zenith radio receiver, phonographic reproducer, or combination thereof, and each new Zenith Quality Tube to be free from defects in workmanship and material arising from normal usage. Its obligation under this warranty is limited to replacing any part or parts of the receiver, reproducer or combination, or replacing tubes which, within ninety (90) days from date of purchase, shall be returned to the authorized dealer from whom the purchase was made and which shall be found to have been thus defective in accordance with the policies established by Zenith Radio Corporation.

The obligation of Zenith Radio Corporation is limited to making replacement parts available to the purchaser, and does not include either the making or the furnishing of any labor in connection with the installation of such replacement parts nor does it include responsibility for any transportation expense.

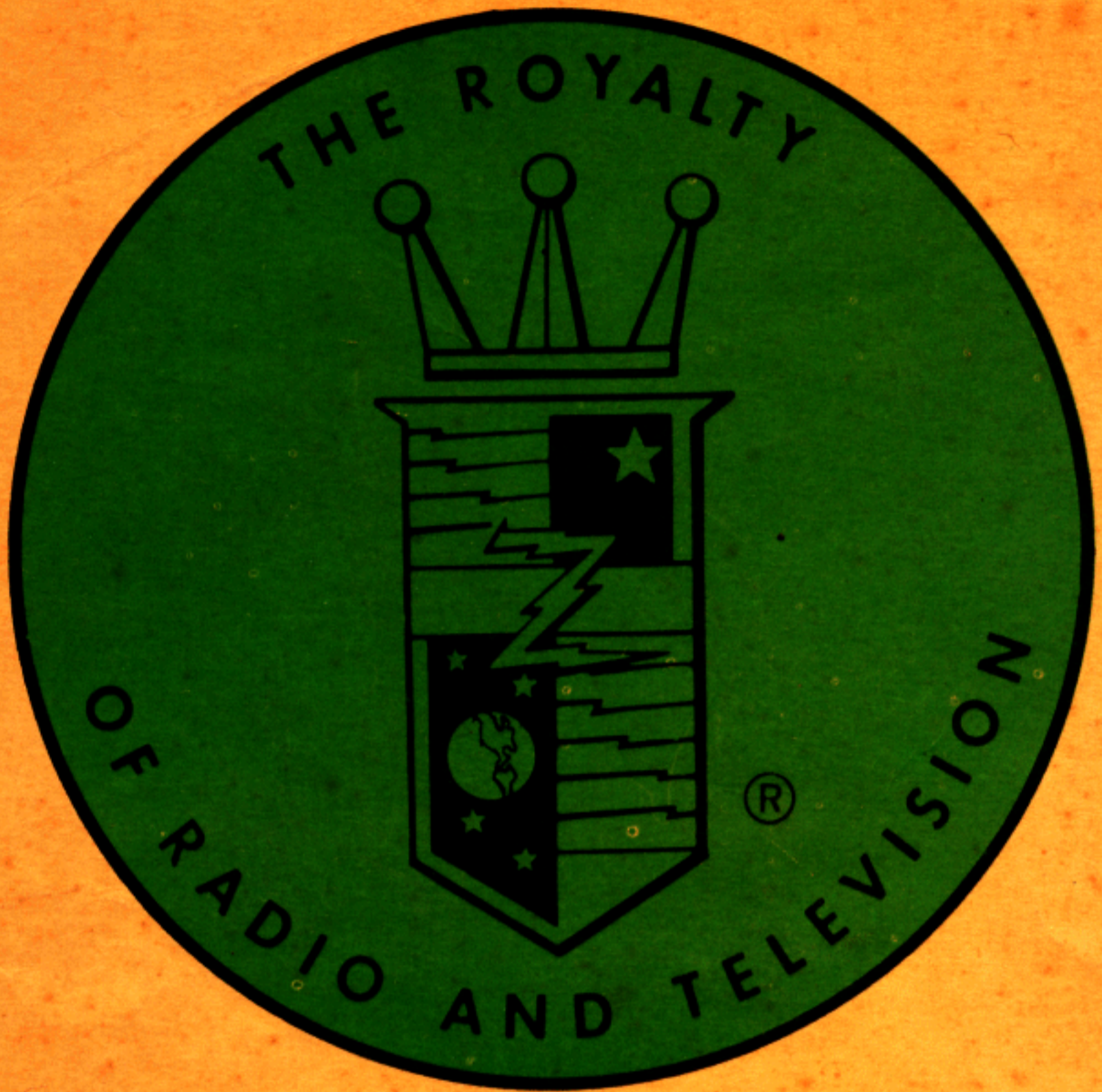
Zenith Radio Corporation assumes no liability and shall not be liable in any respect for failure to perform or delay in performing its obligations with respect to the above warranty if such failure or delay results, directly or indirectly, from any preference, priority or allocation order issued by the Government, or because of any other act of the Government or by war, conditions of war, inadequate transportation facilities, conditions of weather, acts of God, strikes, lockouts, governmental controls, or Zeniths' reasonable requirements for manufacturing purposes, or any cause beyond its control or occurring without its fault, whether the same kind or not.

### Conditions and Exclusions

This warranty is expressly in lieu of all other agreements and warranties, expressed or implied, and Zenith Radio Corporation neither assumes nor authorizes any representative or other person to assume for it any other liability in connection with the sale of Zenith Radio receivers, phonographic reproducers, or combinations thereof, or Zenith Quality Tubes.

The warranty herein shall not apply to any receiver or parts thereof which have been repaired or replaced by anyone other than an authorized Zenith dealer, service contractor or distributor or which have been subject to alteration, misuse, negligence or accident, or to the parts of any receiver which has had the serial number or name altered, defaced or removed.

**ZENITH RADIO CORPORATION**



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