

Rowe
AMI
p h o n o g r a p h

general phonograph information

Sold by:

ROWE AC SERVICES

Division of Automatic Canteen Company of America

18 South Michigan Ave.
Chicago 3, Illinois

Rowe
AMI

p h o n o g r a p h

Manufactured by:

ROWE AC MANUFACTURING

Division of Automatic Canteen Company of America

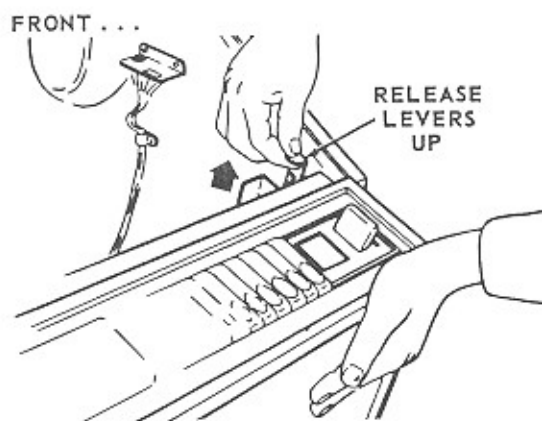
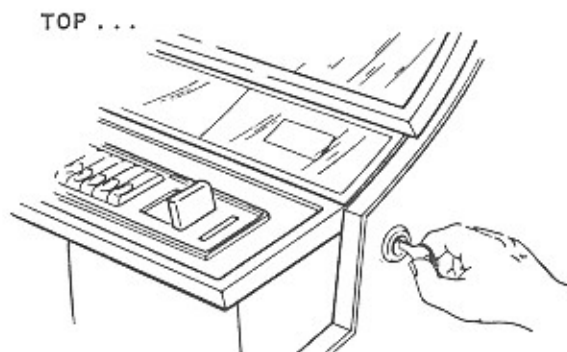
Grand Rapids Plant

1500 Union Avenue, S. E., Grand Rapids 2, Michigan

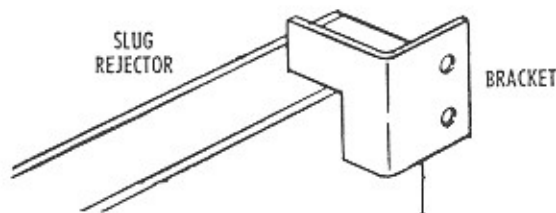
UNPACKING INSTRUCTIONS

NOTE: Retain all tie-down hardware for future use.

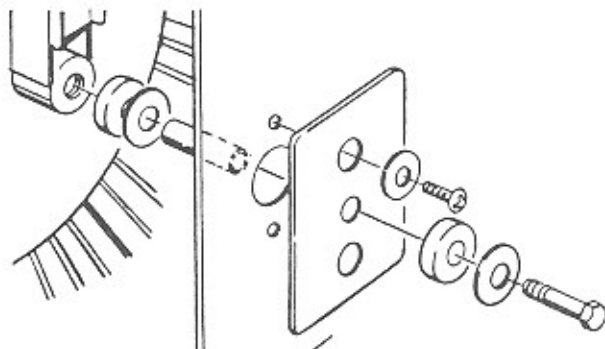
- ① Remove keys from bag.
- ② Unlock and open Top, Front, and Lower Rear Access Doors.



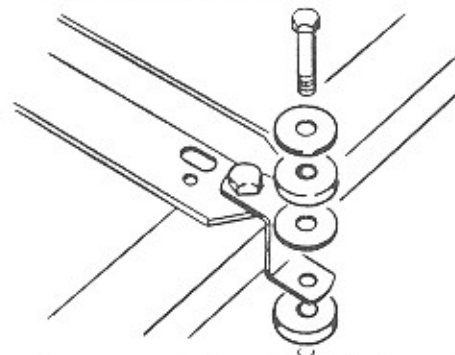
- ③ Remove Slug Rejector hold-down bracket.



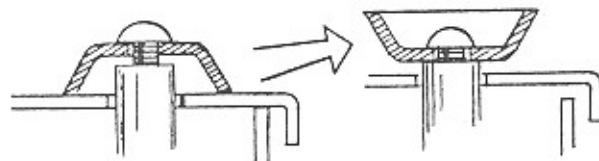
- ④ Remove following Record Changer Mechanism tie-down devices:
 - a. Remove Magazine Shaft tie-down bolt and hardware.



- b. Remove two (2) tie-down bolts and hardware from Mechanism Support.



- c. Remove cord, tape, Idler Block, and rubber bands from Turntable and Tone Arm.
 - d. Remove tape from upper Magazine Belt Rollers.
 - e. Remove protective Stylus Cover from Cartridge.
 - f. Remove Toggle Shifter Plunger tie-down cord.
 - g. Remove plug from Turntable Shaft Bearing and install Turntable. Remove tape from Turntable Hub.
- ⑤ Remove Decorative Disc from Envelope Assembly and place on Turntable.
- ⑥ Untie Power Cord but do not plug into power outlet until the remaining Unpacking Instructions have been completed.
- ⑦ Remove and reverse cup washers on Amplifiers



- ⑧ Check to see that all plugs are properly seated in their respective sockets.
- ⑨ Recheck all preceding instructions, then plug Power Cord into 110 volt AC power outlet.

PHONOGRAPH LOCATION

NOTE: See SOUND SYSTEM SERVICE MANUAL for ideal ACOUSTIC conditions in selecting location.

Select a location for the phonograph that is away from radiators, exhaust fans and other sources of heat that cause record warp.

Prepare phonograph for operation per UNPACKING INSTRUCTIONS. Save all packing materials. All locks in the phonograph are opened with a common key except the cash box lock, which requires an individual type key.

Make sure the phonograph is level or the slug rejector may not work properly.

● PHONOGRAPH RELOCATION

If phonograph must be moved from one location to another, reverse the above procedure and protect your phonograph from damage by again tying down all parts with tie-down hardware, etc. saved from original packing.

CABINET CLEANING

GLASS

Clean all glass parts with a mild soap and water. Dry with a clean lint-free cloth.

PAINTED WOOD AND METAL SURFACES

Clean all painted wood and metal surfaces with mild soap and water followed with an application of a good auto or furniture wax to preserve and protect the finish. Do not use solvents.

CHROME TRIM

Do not use solvents or abrasives of any kind. A damp cloth and a dry cloth should remove any dust or dirt. A very mild soap and water may be used to remove stubborn deposits. A good auto or furniture wax should restore the luster and help to protect the finish.

PLASTIC TRIM

Wipe all plastic surfaces with a damp cloth and a dry cloth only.

MECHANISM BASE

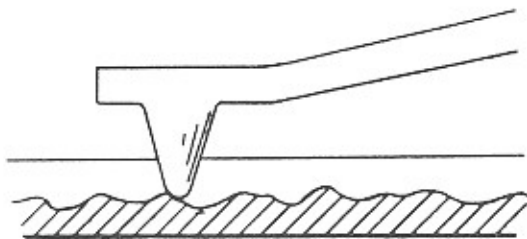
Grease and oil deposits may be removed from the Mechanism Base with a clean cloth dampened with carbon tetrachloride. Do not allow the carbon tetrachloride to come in contact with any of the electrical components.

ELECTRICAL COMPONENTS

Clean all electrical components with a clean dry lint-free cloth or a soft bristled brush only.

RECORD CARE

Worn styli are bad for standard records but they can be even worse for stereo records. As a stylus wears, its tip becomes chisel shaped. This forms a very efficient cutting tool that can ruin a record in short order.



For this reason, we supply a long wearing diamond stylus in our stereo pickup and recommend that replacement styli have diamond tips.

Stereophonic records have a very complex groove. The groove wiggles from side to side just as in a conventional record but it also moves up and down at the same time.

Part of the information required for stereophonic reproduction is recorded in these up and down movements of the record groove.

Because of the special groove, the pickup stylus must have high compliance (it must be free to move and follow the wiggles of the groove exactly) in the sideways and up and down directions.

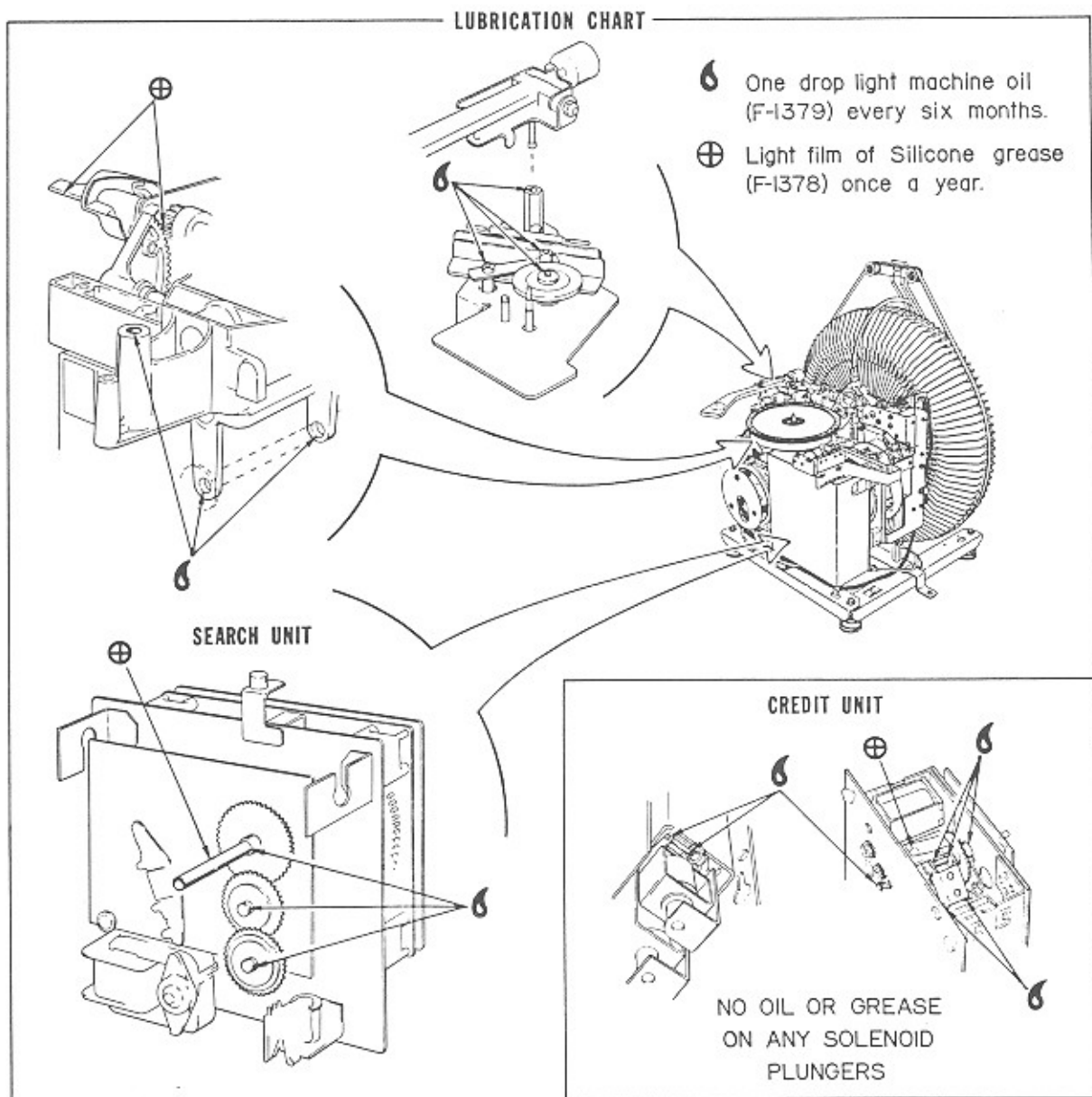
All stereo pickups have good lateral (sideways) and vertical (up and down) compliance. Some monaural or standard pickups have very poor vertical compliance. If a stereo record is played with a pickup having poor vertical compliance, the stylus will gouge out the bottom of the groove and literally cut out the stereo effect recorded on the record. The stereo record could be ruined in a single play.

Keep records clean and free from dust and dirt. This can best be accomplished by exercising care in handling and storing the records. Do not lay the records on a dusty surface. Do not wipe records with a dirty cloth. Avoid excessive handling of records as the natural oil in the skin will leave oil on the surface of the record and this will cause an accumulation of dust and dirt. It is best to handle the record by the center hole and the outside edge.

CARE OF STYLUS

Keep stylus clean at all times and replace at first sign of wear. Keep needle brush clean and free of accumulated dust and dirt.

LUBRICATION CHART



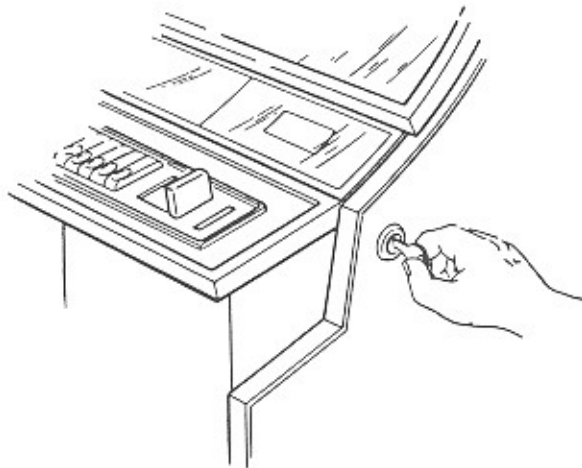
DO NOT OVER-OIL

F-9658

Cabinet Servicing

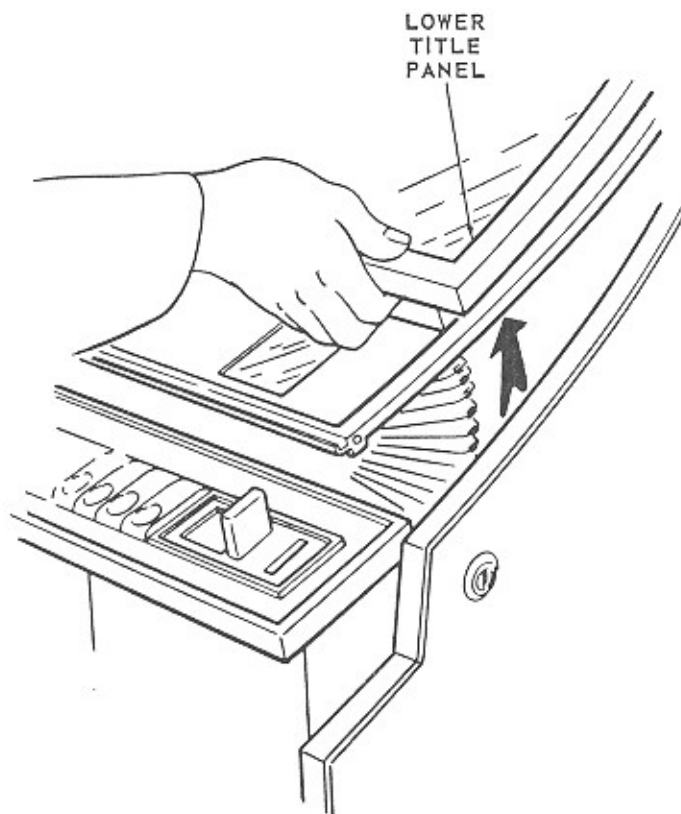
ACCESS TO CABINET INTERIOR

● RAISING TOP DOOR

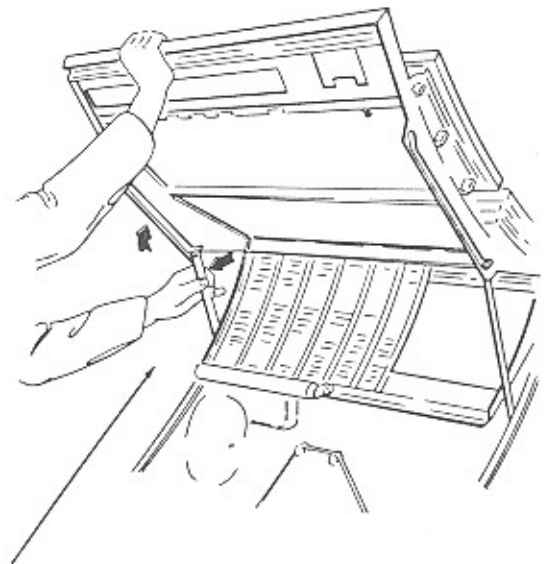


1. Unlock the Cabinet side locks, (one on each side of the Cabinet) near the front. This will release the Top Door Assembly.

2. Grasp the bottom of the lip on the Lower Title Panel and swing the Top Door Assembly up until the support locks in place.

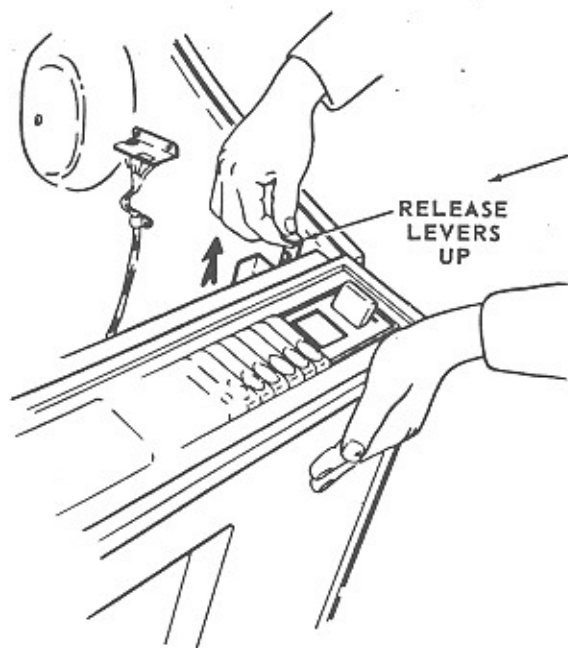


3. To lower the Top Door, lift the door slightly, pull either support toward you, then lower the door.

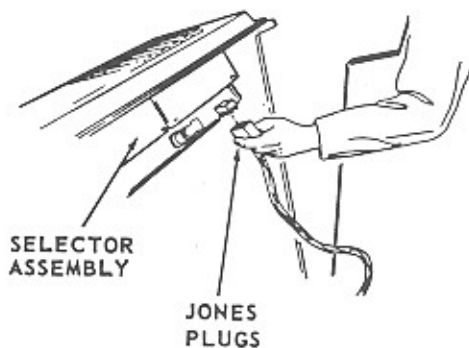


● LOWERING OR REMOVING FRONT DOOR

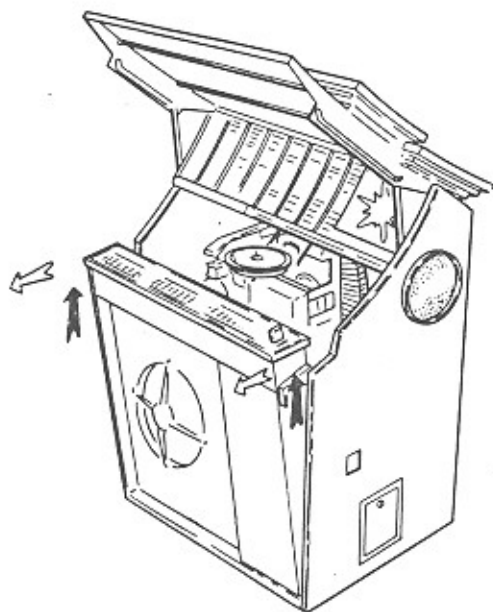
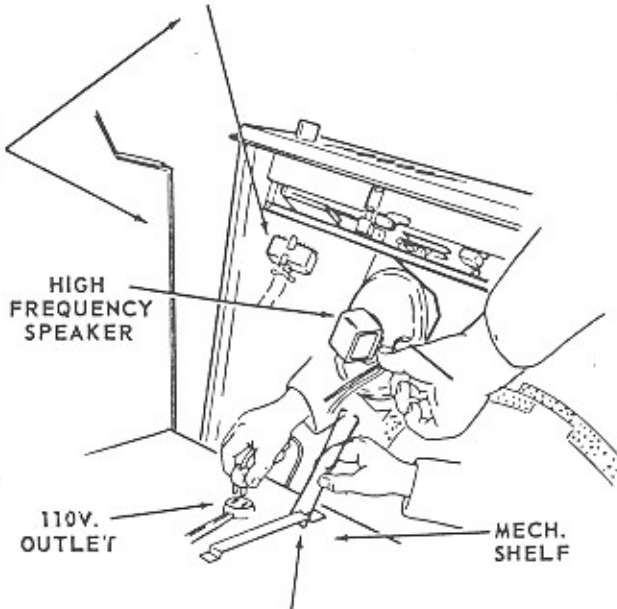
NOTE: Top door must be up



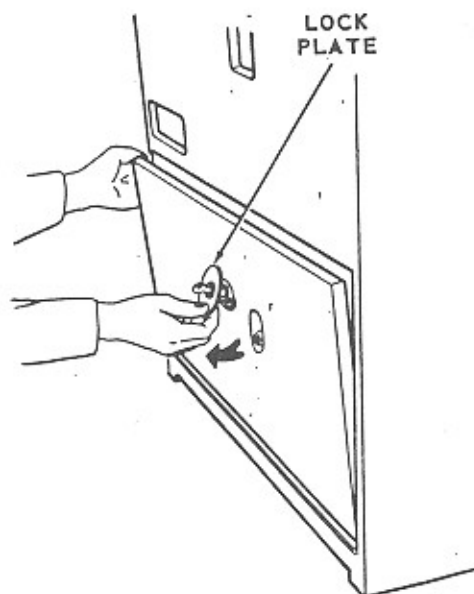
1. While firmly holding the Front Door in place, raise the two release levers located at the extreme right and left corners of the inside of the Cabinet. As the levers are raised, the Front Door Assembly will fall away from the Cabinet. Allow the Front Door to fall gently until it is halted by the Retainer Strap.



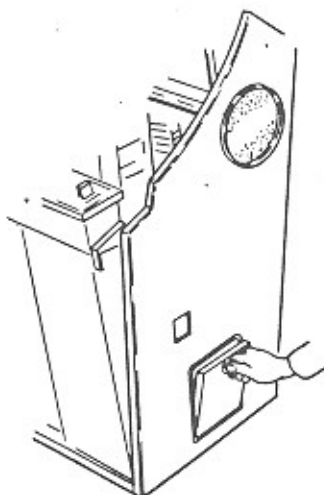
2. To completely remove the Front Door Assembly from the Cabinet, disconnect the 2 Jones Plugs from the selector, the 110 volt line plug, and the High Frequency Speaker Lines.



3. Detach the Retainer Strap from the door by spreading the open ends of the strap.
4. Grasp the top corners of the Front Door firmly and lift it straight up about an inch, and then away from the Cabinet. Place the Door in a firm, safe, position away from the Cabinet to avoid accidental damage.

● OPENING THE REAR ACCESS DOOR

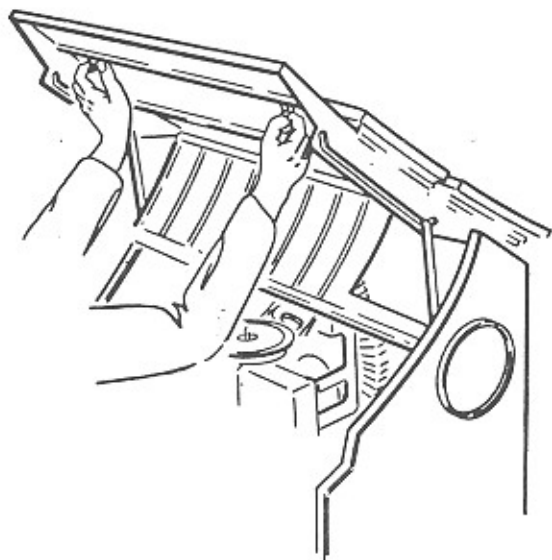
1. Unlock the Rear Access Door Lock. The Lock Plate will spring slightly away from the door.
2. Pull the Lock Plate up and out.
3. Allow the Rear Access Door to fall gently until the supports lock in place.

● CASH BAG REMOVAL

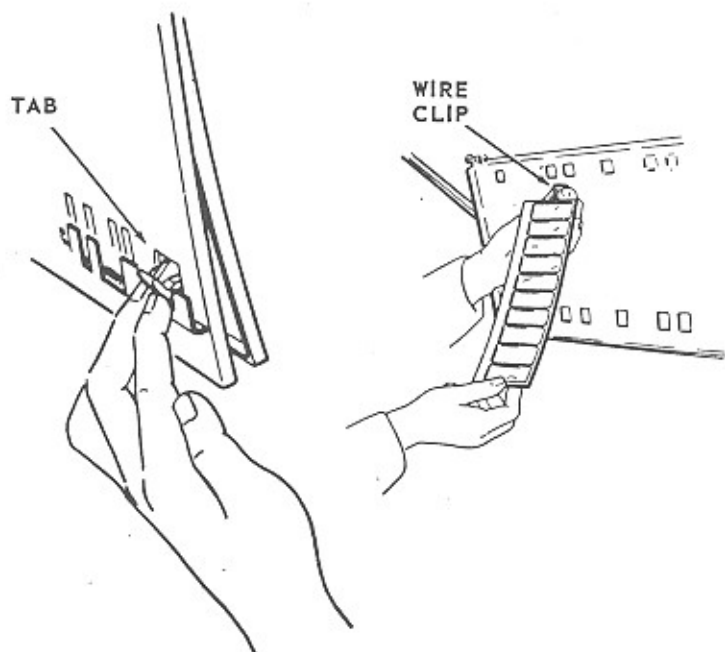
Unlock the Cash Box Door and pull the door away from the Cabinet. Reach into the opening and remove the Cash Bag.

SERVICING TITLE PANELS

● LOWER TITLE PANEL-CHANGING TITLE STRIPS



1. With the Top Door Assembly in the raised position, pull back on the spring loaded pins on the right and left lower corners of the Title Panel Frame. The Title Panel will pivot downward from its top corners, providing easy access to the Title Racks.



2. The Title Racks are held in place by means of a spring-retained plastic tab at the bottom, and an expanding spring-wire clip at the top. To remove the Title Racks, merely push out on the plastic tabs from the backs of the Racks. The bottom of Racks will spring out but the top will remain hinged by the spring-wire clip. Thus, the Title Strips may be changed without completely removing the Title Racks.

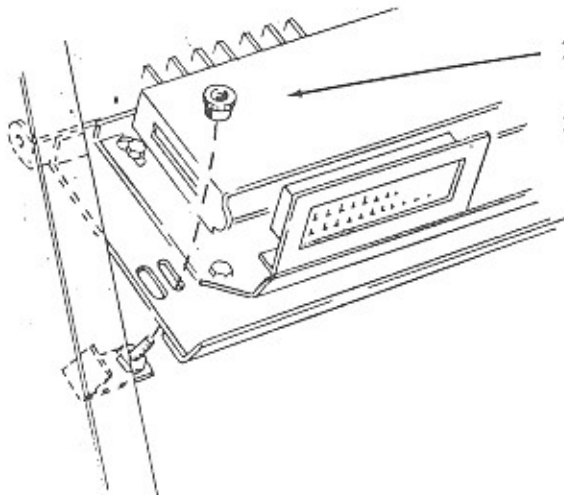
To completely remove the Title Racks for service or cleaning, rotate racks until spring is free of hole.

● UPPER TITLE PANEL-CHANGING TITLE STRIPS

1. Raise and lock the Top Door Assembly in place as prescribed in previous instructions. The Upper Title Panel will remain attached to the Cabinet Frame and may be serviced in this position.

SERVICING THE SELECTOR PANEL

● **MINOR SERVICING**



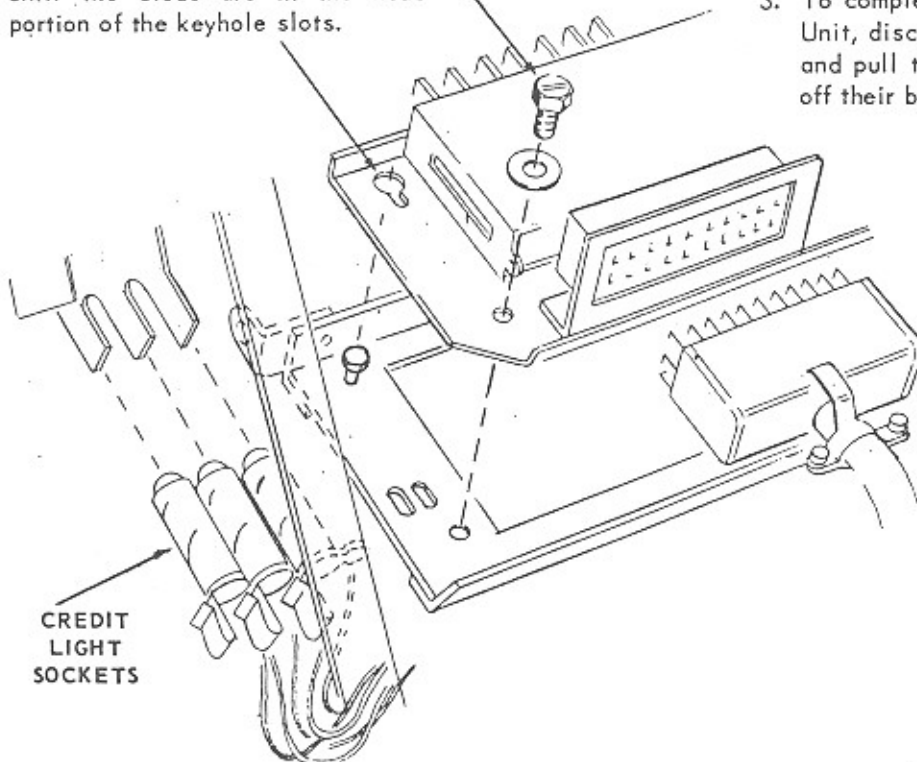
1. Raise and lock the Top Door Assembly in place as prescribed in previous instructions.
2. Remove the thumb nuts from the right and left side of the Selector Panel Mounting Frame.
3. Pivot the Selector Panel up.

● **MAJOR SERVICING**

1. Remove the 1/4-20 hexhead bolt from the lower right and left corners of the Selector Unit. With the bolts removed, the Unit will slide down until the studs are in the wide portion of the keyhole slots.

2. Lift the Selector Unit up and out to the desired position.

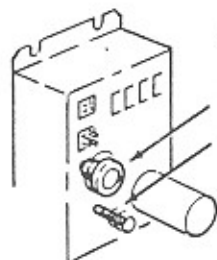
3. To completely remove the Selector Unit, disconnect the 2 Jones Plugs and pull the 3 credit light sockets off their bracket.



REMOVING RECORD CHANGER MECHANISM

-
1. Disconnect 33-Prong Jones Plug from Selector.
 2. Unplug Tone Arm Cable.
 3. Unplug Main Harness from Relay Bracket Assembly. (Mech Base)
 4. Unplug Turntable Cord.
 5. Remove 2 tie-down Bolts (on each side of mech base)
 6. Grasp the Mechanism by its Base and carefully lift it out of the cabinet. Retain the Spring and Felt Washer from the end of the Magazine Shaft for re-installing.

PHONOGRAPH FUSES



JUNCTION BOX

- 3-2/10 AMP FUSTAT
- 2-8/10 AMP MDL SLO-BLO FUSTRON

POWER AMPLIFIER

- 2-8/10 AMP MDL SLO-BLO FUSETRON

SELECTOR PANEL

- 6/10 AMP MDL SLO-BLO FUSETRON

CREDIT UNIT

- 8/10 AMP MDL SLO-BLO FUSETRON

See PARTS CATALOG section for ROWE AC part numbers.

CABINET LIGHTING

● GENERAL

Standard fluorescent lamps and starters are used throughout the Rowe-AMI Phonograph. Caution should be used when changing lamps, as some lamps are locked in place with a fibre tab. This locking tab must be removed before the lamp can be rotated for removal.

All incandescent lamps are mounted in "Bayonet Type" sockets for easy removal.

The following is a list of lamps used in the Rowe-AMI Phonograph.

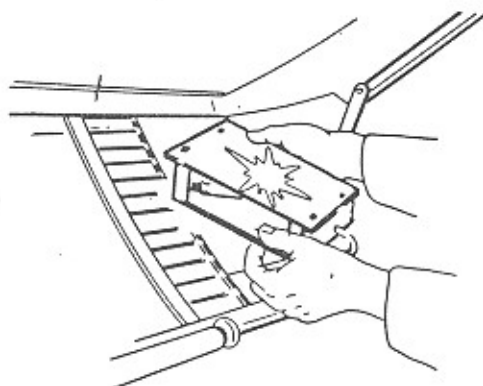
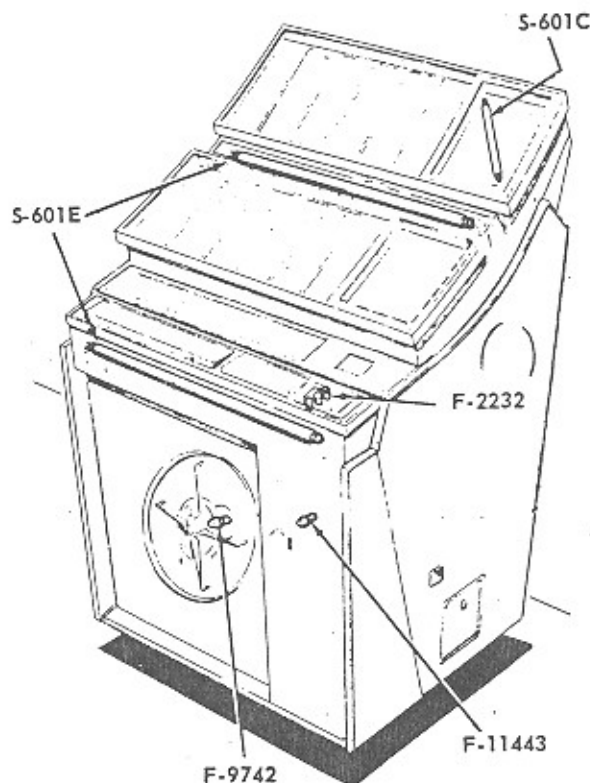
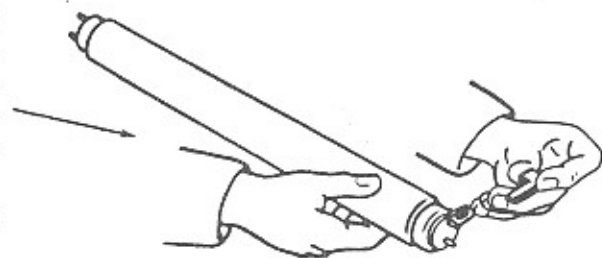
- S-601C - 9" 6 Watt T-5 Fluorescent Lamp (1) - Animation Box.
- S-601E - 28" 25 Watt T-12 Fluorescent Lamp (2)
 - Behind "Your Host" Strip.
 - Behind "Stereo Round"
- F-2232 - Incandescent Lamp (3) #47
 - Credit Window (Front Door)
- F-11443 - Incandescent Lamp (1)
 - Front Door (Behind "Rowe-AMI")
- *F-9742 - Incandescent Lamp (1) #10C7/5DC-120V
 - Front Door Grille

*NOTE

The following is a list of lamps which may be used to replace our F-9742 grill lamp:

- 6S6 DC - 125V 10C7/1DC
- 6S6 DC - 135V 10C7/DC
- 6S6 DC - 145V

This lamp may also be replaced with any clear transparent globe A.C. lamp rated at 110 V. min. to 145 V. max., with a minimum watt rating of 6 W. and a maximum watt rating of 15 W. Lamp must also have a maximum globe diameter of 7/8" and a maximum length of 2-1/4" O.A.



For removal of the Animation Box, remove the four mounting screws, unplug the power cord from the receptacle at the top rear of the Cabinet, and lift the Box free of the Cabinet.

NOTE: Access to the Animation Box lamp is possible by reaching through the opening in the side of the box, or by removing the two decorative plastic plates from the box.

Access to the front door horizontal Fluorescent lamp is possible by unfastening and swinging the selector panel up.

CABINET GLASS

● GENERAL

The Upper and Lower Title Panel glass sections and the Mechanism Viewing glass section are all 3/16 inch thick, specially curved glass. Refer to the appropriate parts catalog section for parts numbers when ordering glass from the factory.

● LOWER TITLE FRAME GLASS

1. Raise and lock the Top Door-Assembly in place.
2. Drop the Lower Title Panel as described in SERVICING TITLE PANELS to provide access to the Lower Title Frame.
3. Using either end of the frame, remove the 3 screws which hold the Frame End Casting to the top door frame.



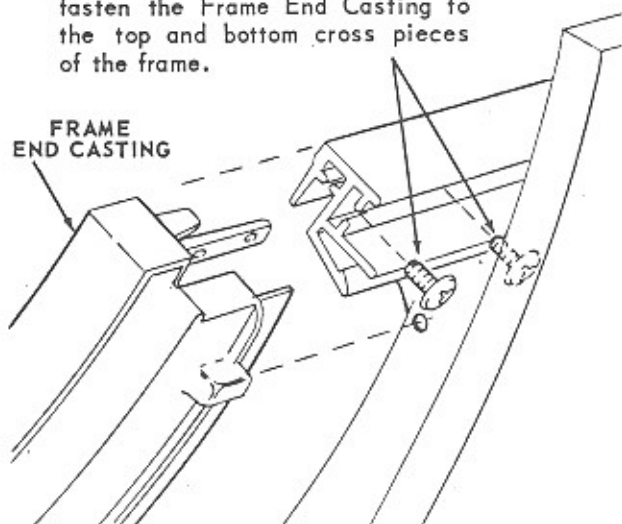
● UPPER TITLE FRAME GLASS

The same procedure should be followed as in removing the lower title frame.

NOTE: In some earlier model phonos, this screw is present and will prove to be inaccessible without removing the entire Title Frame Assembly as described in the above note.

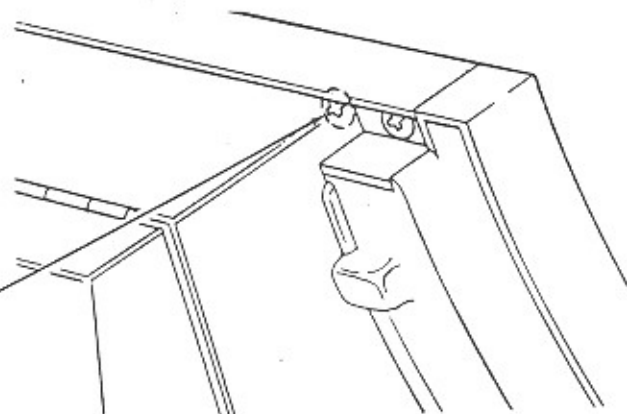
4. Now remove the screws which fasten the Frame End Casting to the top and bottom cross pieces of the frame.

FRAME
END CASTING



5. Pull the Frame End Casting away from the frame and slide the glass out the open end. Be sure to re-install the plastic extruded Gaskets on all 4 edges of the glass when replacing.

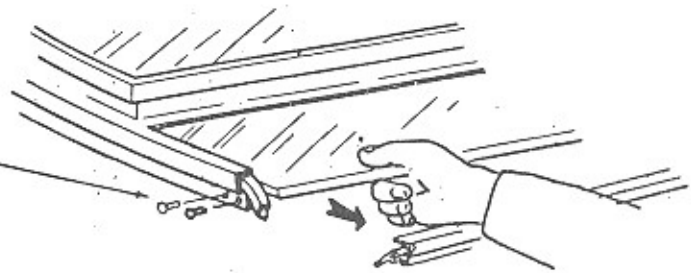
NOTE: If the screws mentioned in Step 4 are inaccessible, the entire Title Frame Assembly should be removed from the top door frame (by removing the same 3 screws as in Step 3 on the opposite side of the frame)



● MECHANISM VIEWING GLASS

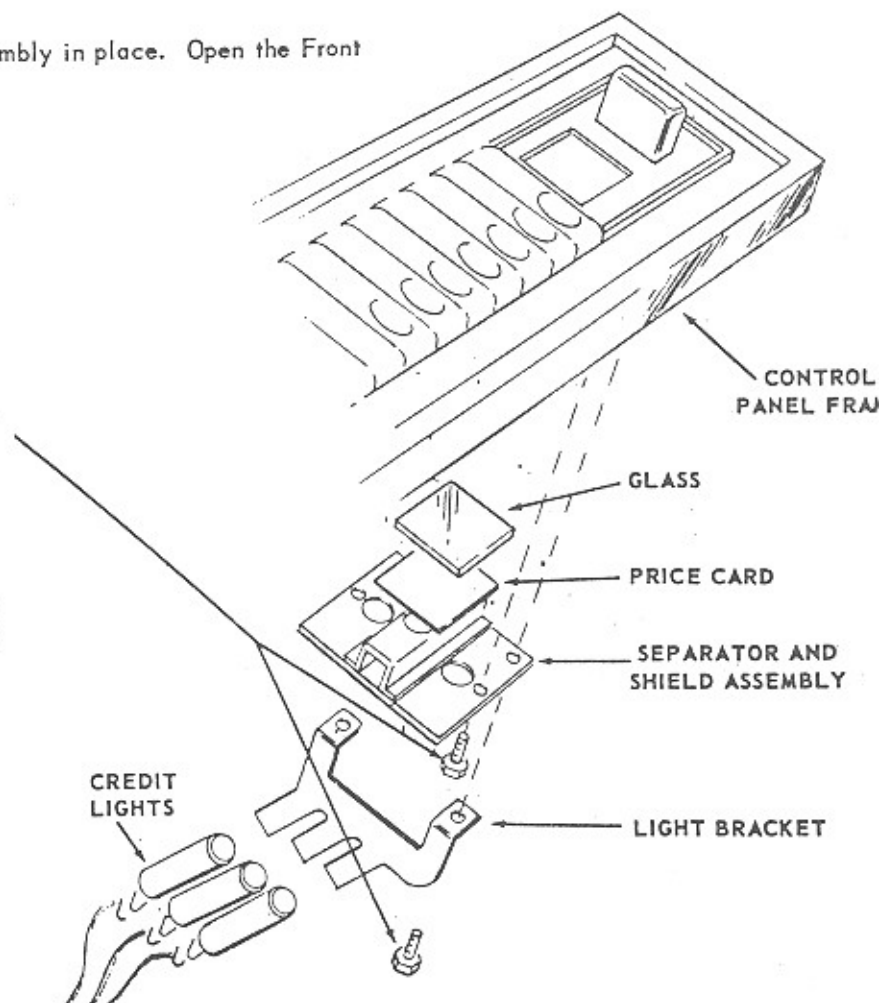
NOTE: Top Door Assembly must be in raised position.

1. Remove the two mounting screws from each of the lower corners of the Top Door Assembly Frame.
2. Hold the glass carefully to keep it from falling and pull the lower section away from the frame. Slide the damaged glass out of the frame. Install the replacement glass and attach the lower frame section.



● CREDIT WINDOW GLASS

1. Raise and lock the Top Door Assembly in place. Open the Front Door Assembly.
2. Pull credit lights (3) off light bracket.
3. Remove the 4 screws which hold the light bracket and separator & shield assembly to the control panel frame.
4. Install the replacement credit window glass and re-assemble as shown.

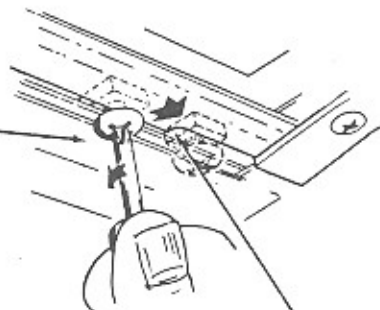


● HOST STRIP GLASS AND PLASTIC

1. Remove Host Strip Assembly from Top Door as follows:

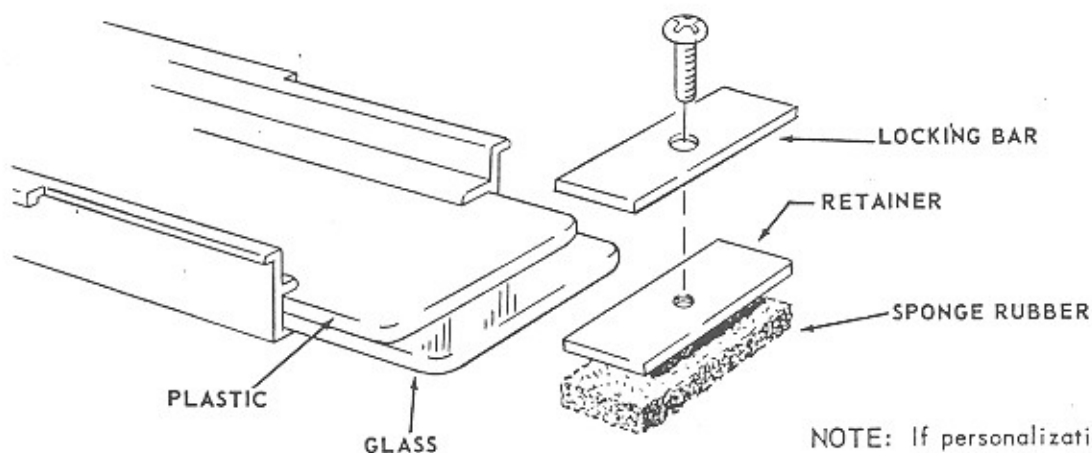
Loosen 4 screws which fasten the Host Strip and slide them outward beyond the step in the extrusion. This will allow the Host Strip to fall free.

CAUTION: Do not back screws out completely.



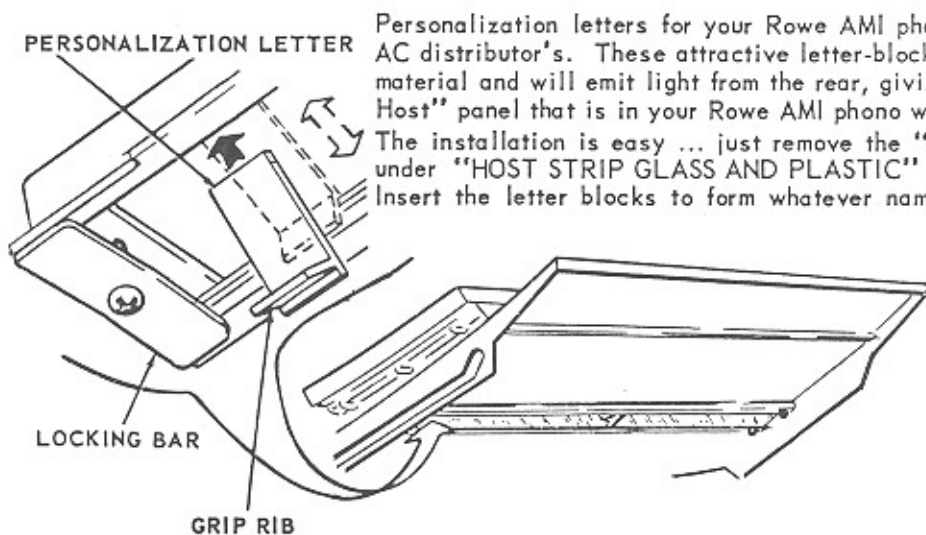
STEP

2. Remove Locking Bar, Retainer, and Sponge Rubber from end of frame and slide glass and plastic out.



NOTE: If personalization letters are to be inserted, do not replace the "Host Strip" Plastic, but only the glass. Personalization fillers can be inserted directly into the frame without removing the locking bar from the end.

● LOCATION PERSONALIZATION LETTERS



Personalization letters for your Rowe AMI phono, are available at your Rowe AC distributor's. These attractive letter-blocks are molded from a translucent material and will emit light from the rear, giving the same effect as the "Your Host" panel that is in your Rowe AMI phono when you receive it.

The installation is easy ... just remove the "Your Host" panel as instructed under "HOST STRIP GLASS AND PLASTIC" just ahead of this information. Insert the letter blocks to form whatever name or message, you desire, with the grip rib in the lower position when the top door assembly is raised— and as shown here. Blanks— of varying widths — are available as indicated in the letter block parts listed below. These are for separating words, etc. Re-locate locking bar against letters — so they will stay in place — and tighten phillip's head screw.

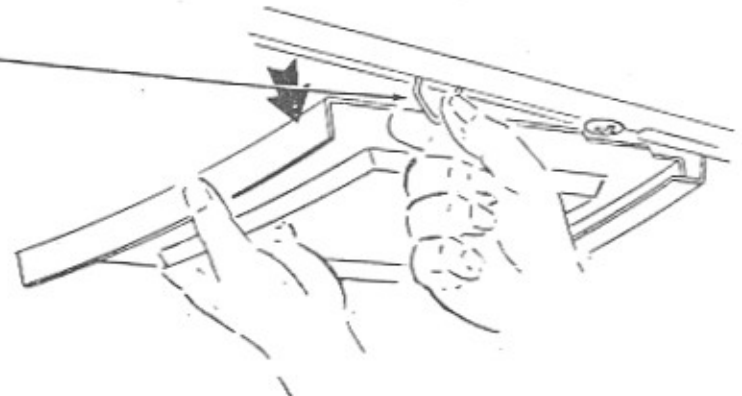
● LOCATION PERSONALIZATION LETTERS (CONT'D)

SERVICE PART NO.	ENGINEERING PART NO.	DESCRIPTION (Letter Block)	SERVICE PART NO.	ENGINEERING PART NO.	DESCRIPTION (Letter Block)
201-09581	F-9581-A	A	221-09581	F-9581-U	U
202-09581	F-9581-B	B	222-09581	F-9581-V	V
203-09581	F-9581-C	C	223-09581	F-9581-W	W
204-09581	F-9581-D	D	224-09581	F-9581-X	X
205-09581	F-9581-E	E	225-09581	F-9581-Y	Y
206-09581	F-9581-F	F	226-09581	F-9581-Z	Z
207-09581	F-9581-G	G	205-09580	F-9580-E	1
208-09581	F-9581-H	H	206-09580	F-9580-F	2
201-09580	F-9580-A	I	207-09580	F-9580-G	3
210-09581	F-9581-J	J	208-09580	F-9580-H	4
211-09581	F-9581-K	K	210-09580	F-9580-J	5
212-09581	F-9581-L	L	211-09580	F-9580-K	6
202-09580	F-9580-B	M	212-09580	F-9580-L	7
214-09581	F-9581-N	N	214-09580	F-9580-N	8
203-09580	F-9580-C	O	216-09580	F-9580-P	9
216-09581	F-9581-P	P	218-09580	F-9580-R	0
204-09580	F-9580-D	Q	219-09580	F-9580-S	S
218-09581	F-9581-R	R	220-09580	F-9580-T	c
219-09581	F-9581-S	S	221-09580	F-9580-U	&
220-09581	F-9581-T	T			

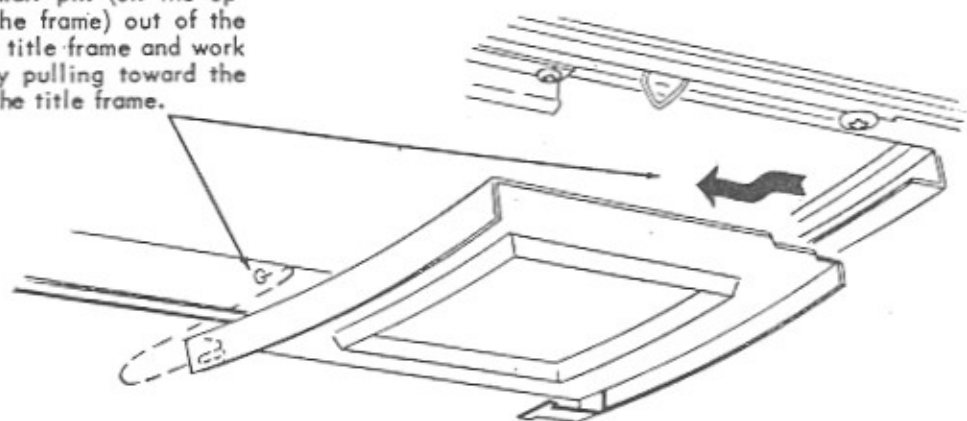
-Misc. Blank Spacers

● REMOVING "TOP TALENT" AND ANIMATION BOX FRAMES

1. Pull snap release clip away from frame and pull the edge of the frame clear of the snap release.



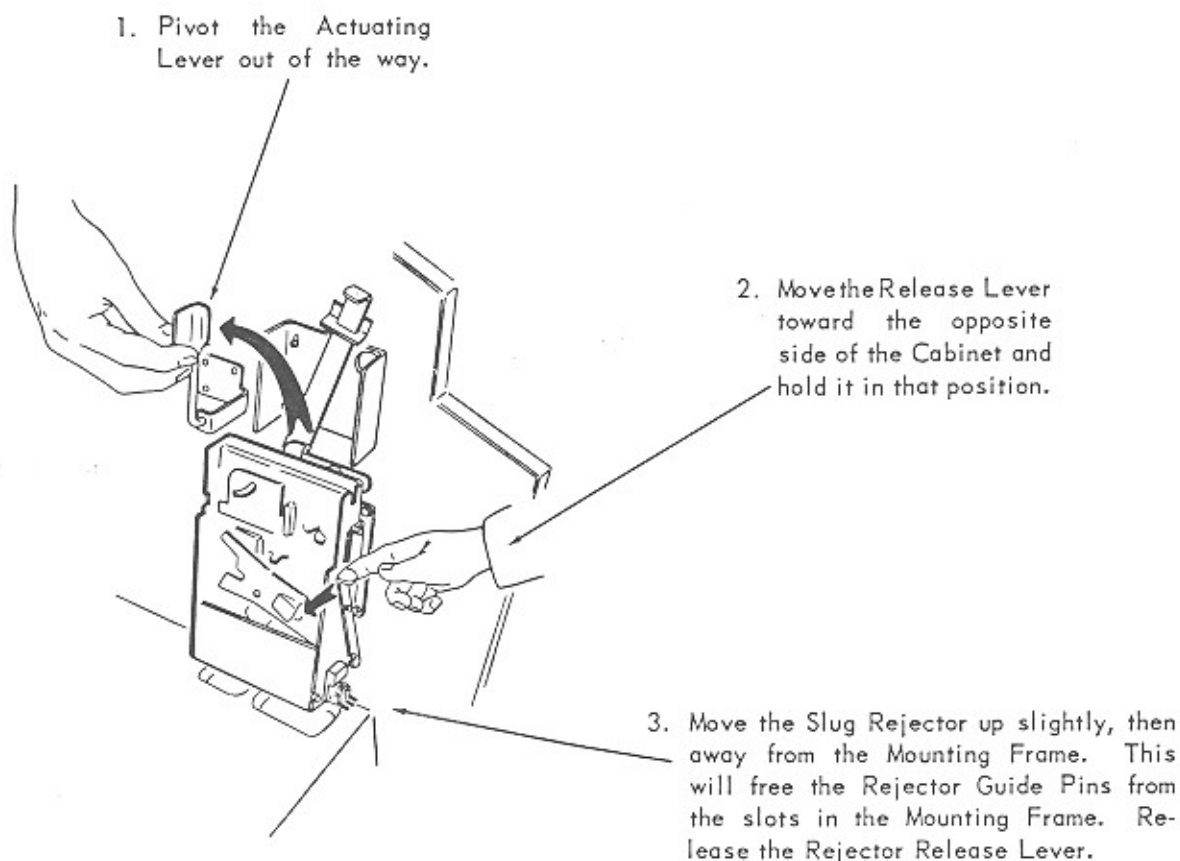
2. Now pull the small pin (on the opposite edge of the frame) out of the guide hole in the title frame and work the frame out by pulling toward the opposite end of the title frame.



SLUG REJECTOR AND COIN SWITCHES

● REMOVING THE SLUG REJECTOR

NOTE: The Top Door Assembly must be in the raised position and the Front Door Assembly must be open for complete access to the Slug Rejector and Coin Switches.

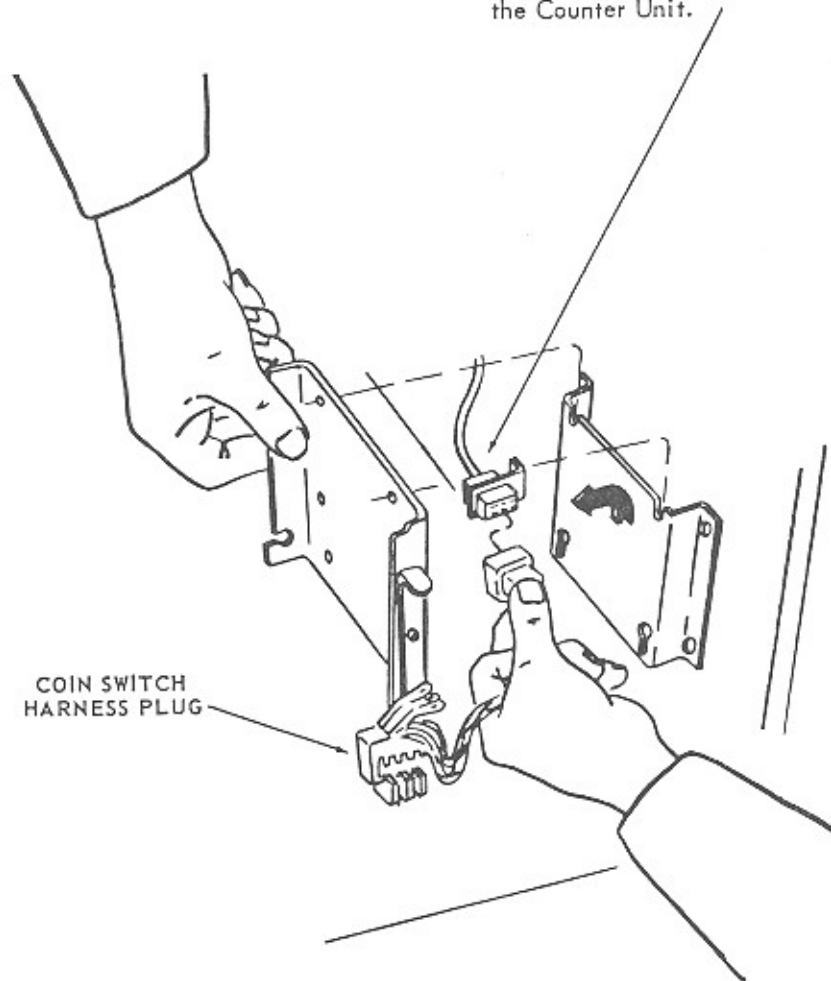


NOTE: The Slug Rejector is a product of National Rejectors, Inc., 5100 San Francisco Ave, St. Louis 15 Missouri. To obtain service information for the Rejector, refer directly to the manufacturer.

● COIN SWITCH AND REJECTOR MOUNTING BRACKET

1. Remove the Slug Rejector as prescribed in previous instructions.

2. Disconnect the Coin Switch harness plug which is located behind the mounting frame, just over the Counter Unit.



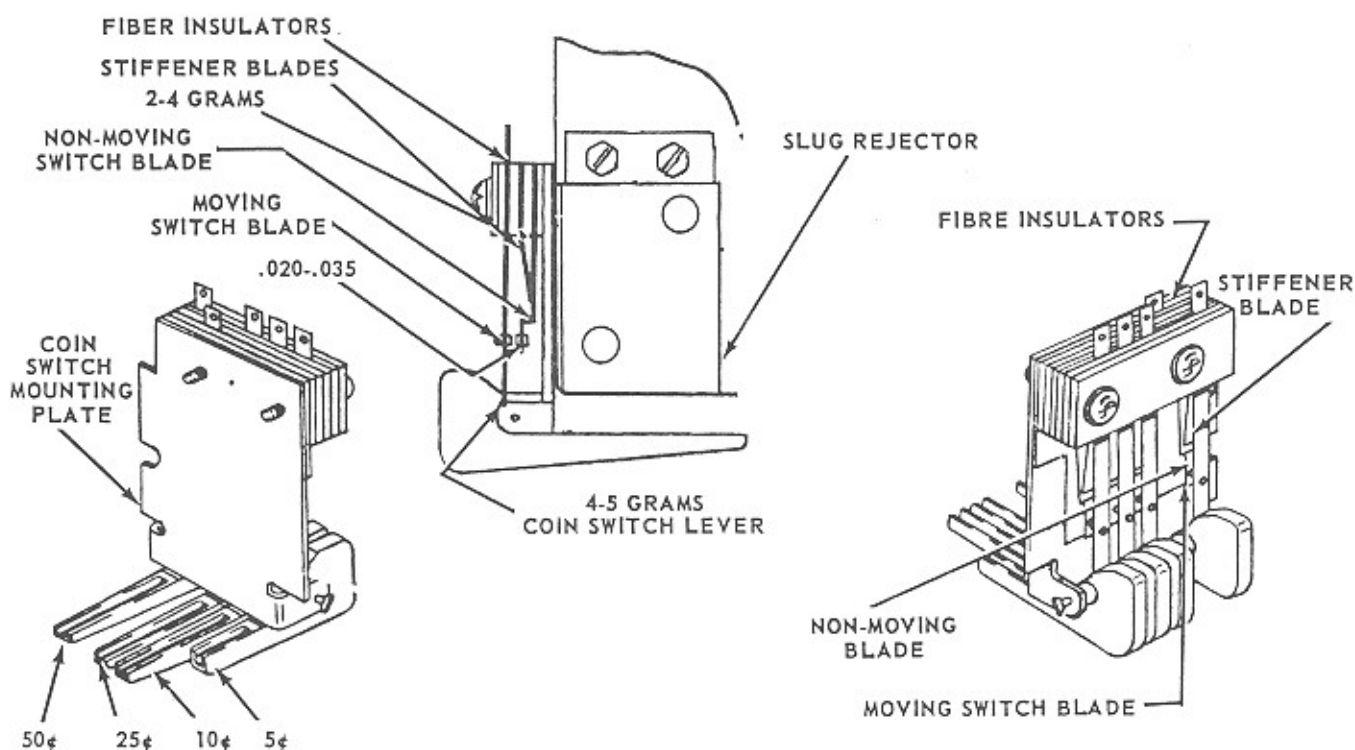
3. Simultaneously push up on the bottom of the mounting bracket and away from the side of the Cabinet. Reverse this procedure to install the mounting bracket.

● SERVICING COIN SWITCHES

The coin switch is located on the slug rejector mounting frame in combination with the slug rejector. It will normally require no attention unless in some way it is damaged. Note that the coin switch levers do not touch the slug rejector but rather they are stopped in their "at rest" position.

OPERATIONAL CHECK

Hold the plastic coin switch lever in its normal position and drop a coin through the slug rejector. When the coin comes to rest on the lever, release the lever slowly. The weight of the coin alone must operate the lever enough to close the coin switch and allow the coin to fall free.



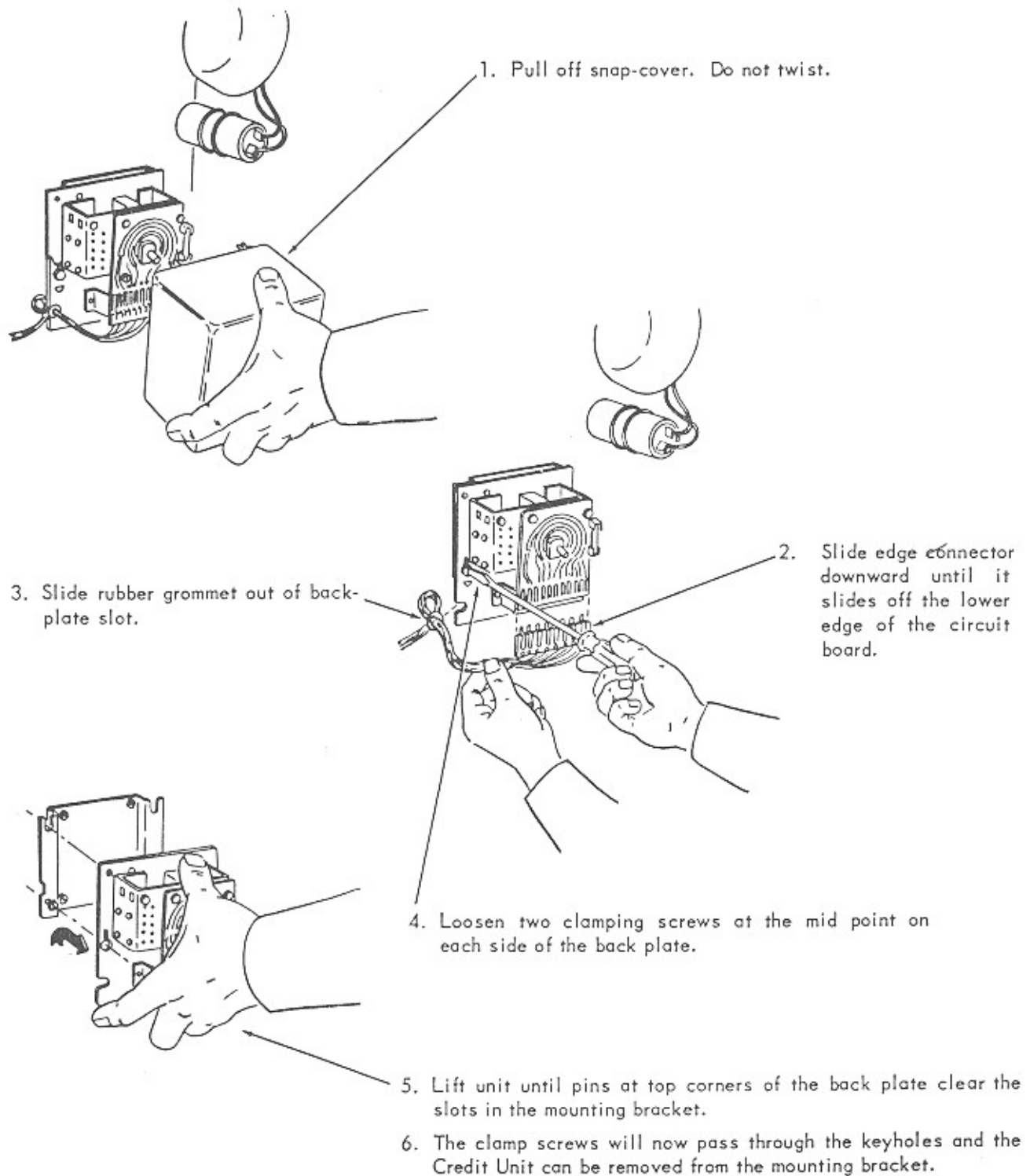
CONTACT PRESSURE AND GAP

Each moving switch blade must push against its lever with just enough force (4-5 grams) to hold the lever against the rebound weight. Each non-moving blade must push slightly (2-4 grams) against its stiffener blade.

The gap between the contacts of each switch should be .020 to .035 (about 1/32).

NOTE: Contact pressure is adjusted by bending the contact blade near the fiber insulators. The gap between contacts is adjusted by bending the stiffener blade.

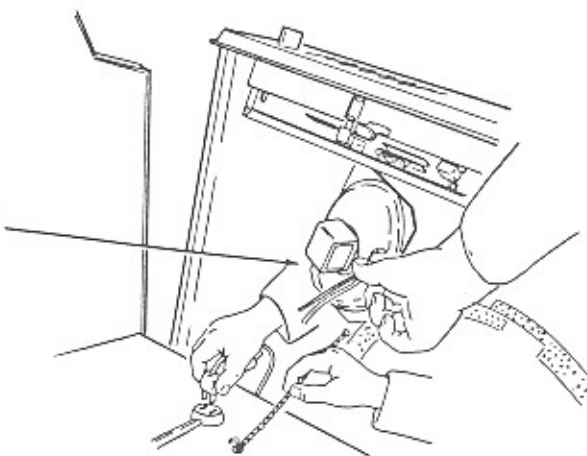
REMOVING THE CREDIT UNIT



REMOVING SOUND SYSTEM COMPONENTS

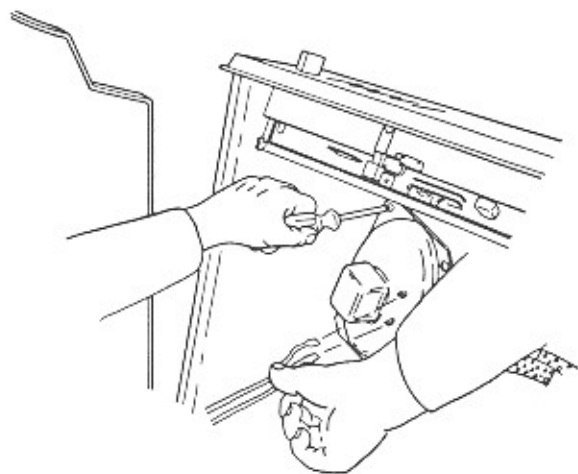
● FRONT DOOR HIGH-FREQUENCY SPEAKER

1. Raise and lock the Top Door Assembly in place. Open the Front Door Assembly.
2. Disconnect the clip-on leads from the terminals of the Speaker.

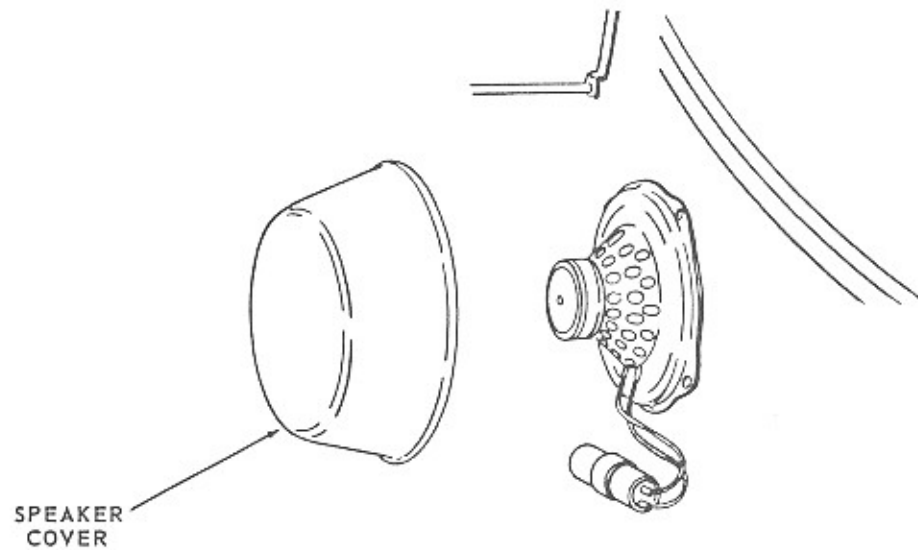


CAUTION: All Speakers in the Rowe-AMI Phonograph are individually phased and must be connected in a specific manner. For this reason, one of the two clip-on leads at all Speaker connections are slightly larger than the other. The larger clip-on lead must be connected to the matching Speaker terminal.

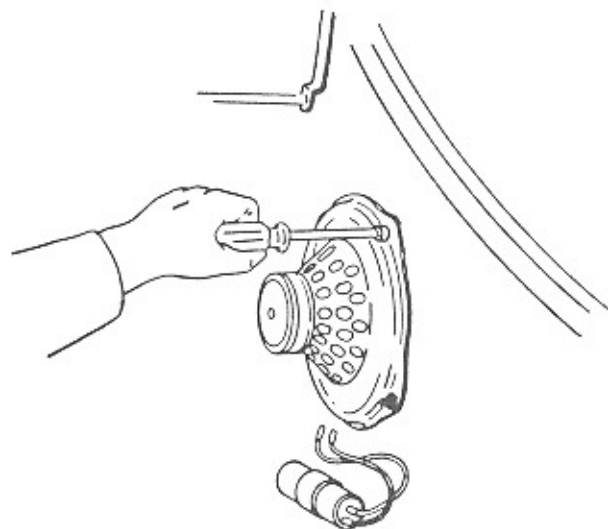
3. Carefully holding the Speaker by its metal frame, remove the four mounting screws and remove the Speaker.



● SIDE HIGH-FREQUENCY SPEAKERS



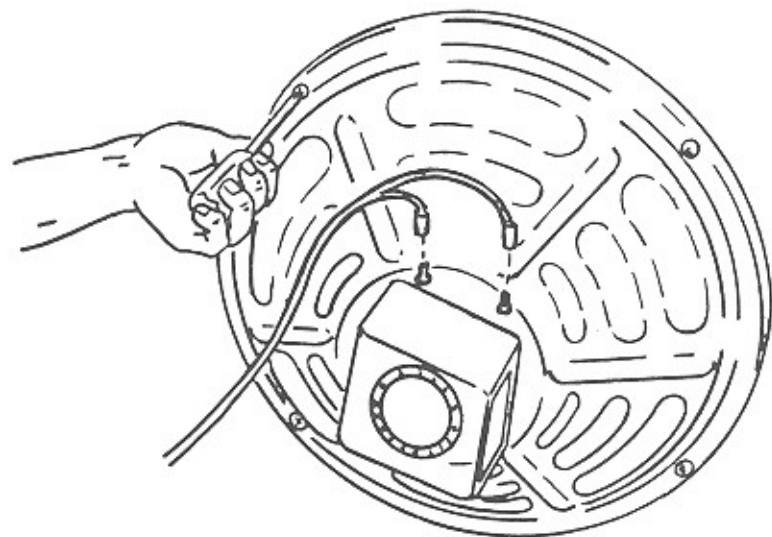
Disconnect the clip-on leads from the speaker terminals and remove the four speaker mounting nuts and washers. These same screws hold outer trim ring in place.



Install replacement speakers by reversing the removal procedure.

● LOW-FREQUENCY SPEAKER

1. Unlock and lower the Rear Access Door prescribed in previous instructions.

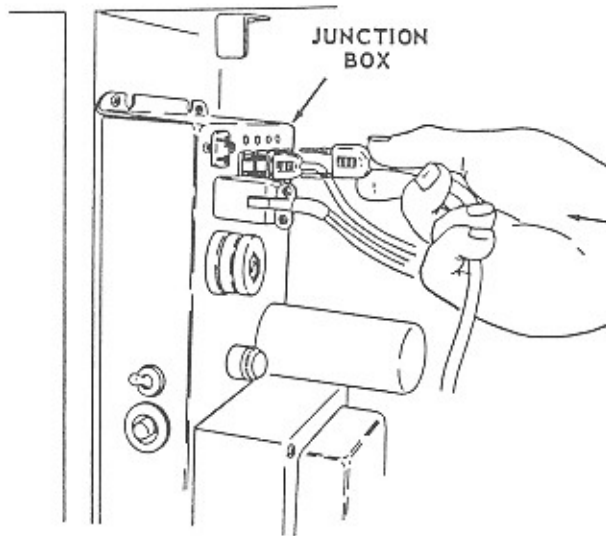


2. The Low Frequency Speaker is mounted in the right lower compartment (facing the rear of the Phonograph). Disconnect the clip-on lead from the Speaker terminals and remove the four Speaker mounting screws.
3. Remove the damaged Speaker and install the replacement Speaker.

CAUTION: Be extremely careful when installing Speakers, as the Cone and Walls of the Speaker can easily be damaged. Whenever possible, handle Speakers by the outer edges of the metal frame, or by the magnet in the rear.

● R-2620 STEREO POWER AMPLIFIER

NOTE: Minor servicing can be accomplished without removing the unit from the phonograph.



1. Unlock and lower the Rear Access Door.
2. Disconnect the Speaker Harness Plug and the Mute Relay Plug from the Power Amplifier and disconnect cable clamps. Disconnect the Power Amplifier Power Cord from the Junction Box. Disconnect the Control Amplifier Amplock Plug from the Power Amplifier.

3. Disconnect and tag any Remote Speaker leads which may be connected to the 70 Volt Line terminals or the Low Impedance terminals. Tagging the Remote Speaker leads will insure proper Speaker phasing.



4. Remove the four Power Amplifier mounting screws and carefully remove the Amplifier from the Rear Access Door.
5. Install the R-2620 Stereo Power Amplifier by reversing the removal procedure.

NOTE: For Amplifier service information, refer to the Sound System Service Manual.

● R-2622 STEREO CONTROL AMPLIFIER

NOTE: Minor servicing can be accomplished without removing the unit from the phonograph.

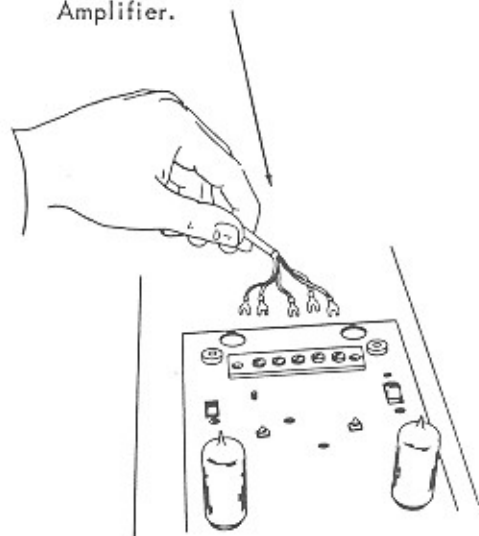
1. Unlock and lower the Rear Access Door.



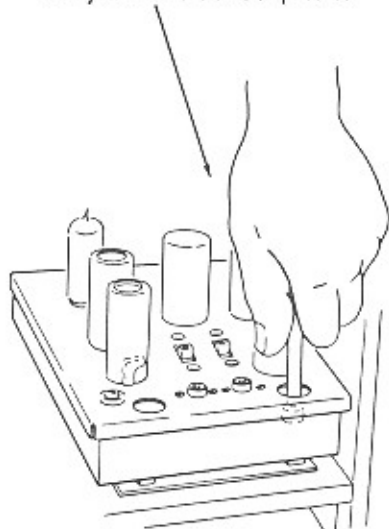
2. Disconnect the Tone Arm Cords from the plug-in jacks on the Control Amplifier. Disconnect the Amplock power plug at the Power Amplifier.



3. Disconnect and tag the Volume Control leads from the Control Amplifier.



4. Remove the four Control Amplifier mounting screws and carefully remove the Amplifier.

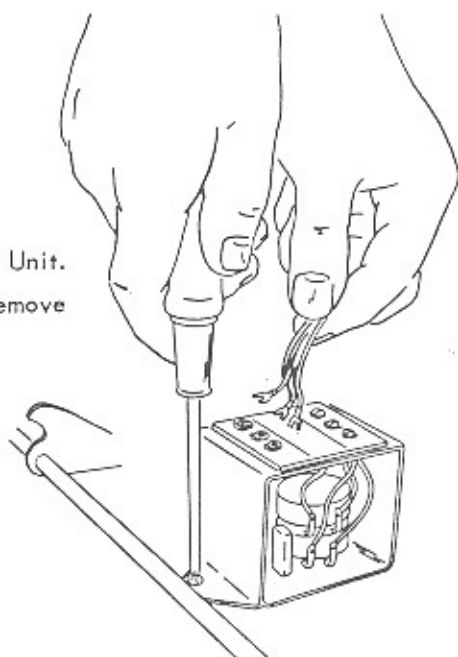


5. Install the R-2622 Stereo Control amplifier by reversing the removal procedure.

NOTE: For Amplifier Service Information, refer to the SOUND SYSTEM SERVICE MANUAL.

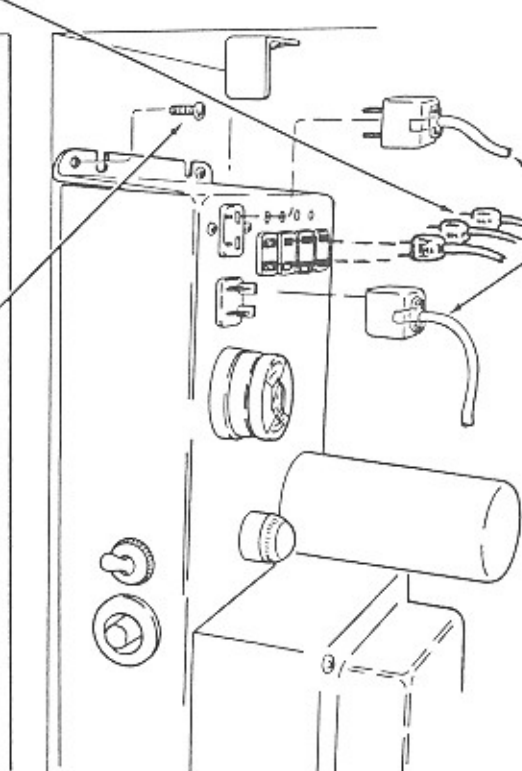
● VOLUME CONTROL UNIT

1. Tag and disconnect the leads from the Volume Control Unit.
2. Remove the two Volume Control Unit mounting screws and remove the unit from the Rear Access Door.



REMOVING THE JUNCTION BOX

1. Unlock and lower the Rear Access Door.
2. Disconnect the three or four (depending whether or not the Service Outlet is used) 110 Volt Line cords from the Junction Box.
3. Disconnect the Auxiliary Transformer plug and the Phonograph Harness plug from the Junction Box.
4. Remove the top two Junction Box Mounting screws and loosen the bottom two mounting screws. Lift the Junction Box up slightly and then out of the Cabinet.
5. To install the Junction Box, merely reverse the removal procedure.

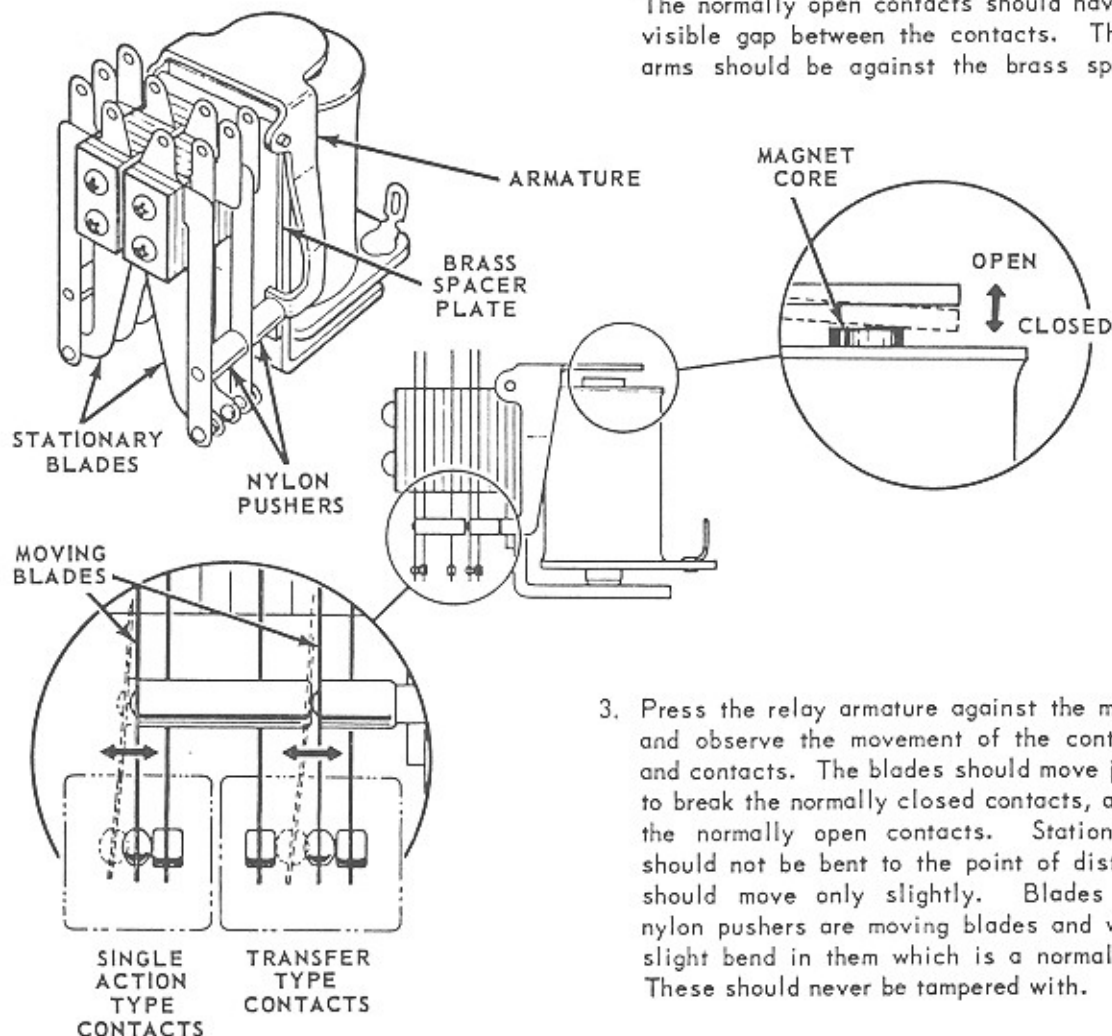


INSPECTION AND ADJUSTMENT OF RELAYS

● GENERAL

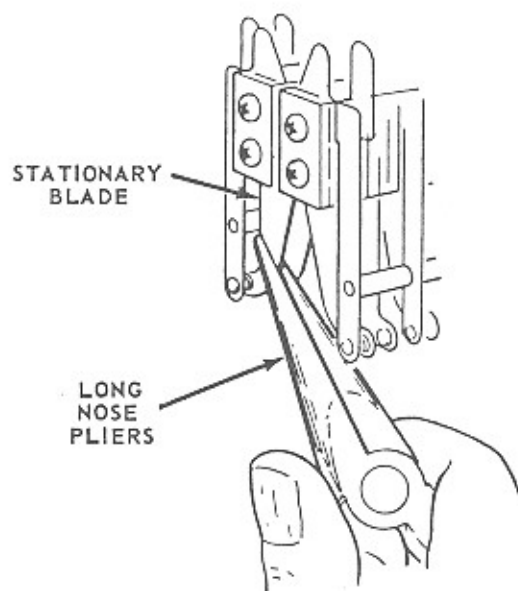
Critical adjustments on the relays will seldom need to be done in the field. The relays are carefully adjusted and tested at the factory. The conditions described below apply to most of the relays in the phonograph. They should be checked in the field when a malfunction is traced to a Relay.

1. The armature should move freely up and down, without binding at any point. There should be no side movement of the armature as it rises and falls. Replace the relay if there is any amount of sloppy movement in the armature.
2. With the armature open, the normally closed contacts should be making positive contact without distorting the contact blades. The points of the cone shaped contacts should touch matching contacts on the flat face without running over the edge. The normally open contacts should have a clearly visible gap between the contacts. The armature arms should be against the brass spacer plate.



3. Press the relay armature against the magnet core and observe the movement of the contact blades and contacts. The blades should move just enough to break the normally closed contacts, and to make the normally open contacts. Stationary blades should not be bent to the point of distortion, but should move only slightly. Blades containing nylon pushers are moving blades and will have a slight bend in them which is a normal condition. These should never be tampered with.

- When the blades and contacts do not meet the conditions described in 2 and 3 above, they may be adjusted by slightly bending the stationary blades. Do not bend the moving blades. A pair of long nose pliers should be used, which have no gripping teeth that will warp the blades. Bend the blade very gently in a forward direction. Never twist the blade sideways, even slightly. Whenever possible, do not handle the relay blades or contacts with bare fingers. Skin oils together with dust or dirt deposits, cause a corrosive action that shortens the life of the relay.



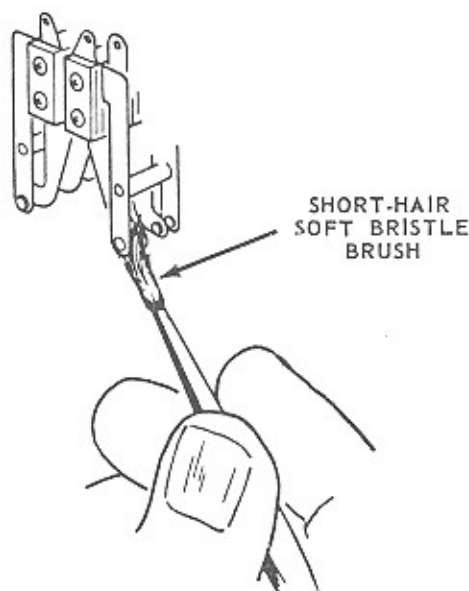
● SERVICING RELAY CONTACTS

Dust, dirt, or carbon caused by "arcing", if allowed to accumulate on the relay contacts, will eventually cause malfunctioning or breakdown of the relay. All relays should be periodically checked for this condition, and cleaned and burnished when necessary. The contacts should be cleaned before and after burnishing. Do not attempt to use the burnishing tool to remove dirt or carbon deposits, without cleaning the contacts first. This could seriously distort the shape of the contacts.

Cleaning Solution — Many cleaning solutions on the market are reputed to be effective, but leave a white film or an oily coating after use. These

solutions should never be used. Two contact cleaning solutions are recommended: "ENG-SOL" Solution No. 16, manufactured by Passaic Analytical Laboratories Inc., Passaic, New Jersey. The second solution can be obtained by mixing 50% denatured alcohol and 50% carbon-tetrachloride. These have been found to be the most effective.

Burnishing Tool — The AMI Z-452 Contact Burnisher is specifically designed for servicing relay contacts. It has a special burnishing surface which will not damage the contacts if used properly. **DO NOT USE SANDPAPER OR FILES OF ANY KIND.**



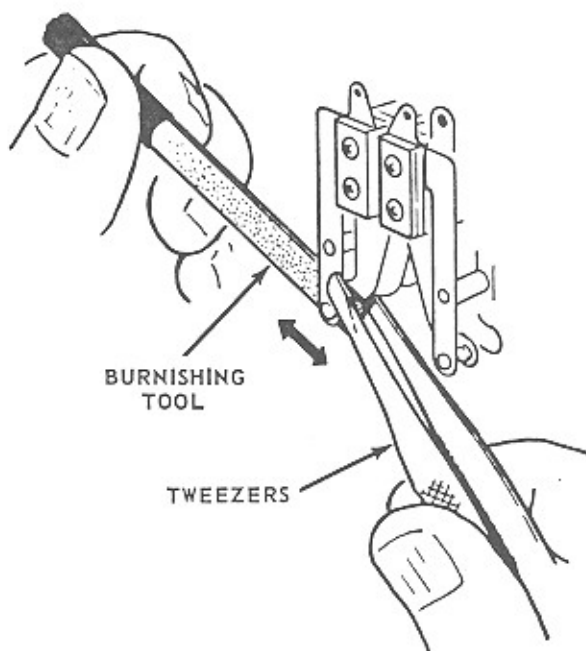
INSTRUCTIONS

- Clean the contacts with a short-hair soft-bristle brush and cleaning solution, brushing away from the magnet coil. Cleaning solution need not be applied to the contact blades, except to remove stubborn particles of dirt or other foreign matter.

CAUTION: Do not allow any of the cleaning solution to come in contact with the relay magnet coil or any of the wiring.

Rowe
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SERVICE MANUAL

2. Place the contact burnisher between two matching contacts and bring the contacts against the burnishing surface. Hold the contacts lightly against the burnisher with tweezers or a pair of long nose pliers while pushing and drawing the burnisher between the contacts. Repeat this until the surface of the contacts become polished and smooth. Check closely for pits or uneven surfaces. Be careful to retain the original shape of the contacts.
3. Clean the contacts again as in step 1, removing all foreign matter and bits of conductive material which may be left on the contacts or blades.
4. Check the contacts and blades for the proper "make" and "break" conditions as described in General Inspection and Adjustment of Relays. Due to moving the contacts and blades during cleaning, it may become necessary to readjust them.



NOTE! . . . INFORMATION ON THIS PAGE is for Model L Phonos. having SERIAL NO. 690001 or ABOVE and is the same as instruction sheet no. F-11719 included with kit no. L-5224(400-05224). For Model L Phonos. with ser. no's. below 690001, see instructions no. F-9856 included with kit no. L-2590 (400-02590).

CONVERSION INSTRUCTIONS

• PARTS LIST

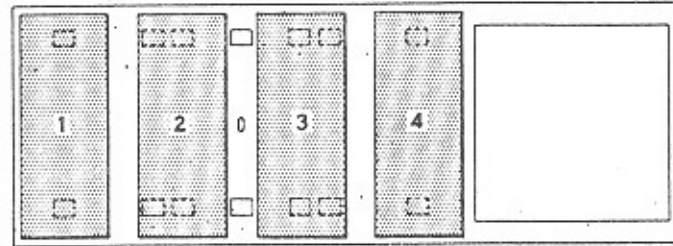
CONVERSION KIT

(Used for converting 200 selection phonograph to either 160 or 100 selections)
Service Part No. 400-05224, Engineering Part-No. L-5224

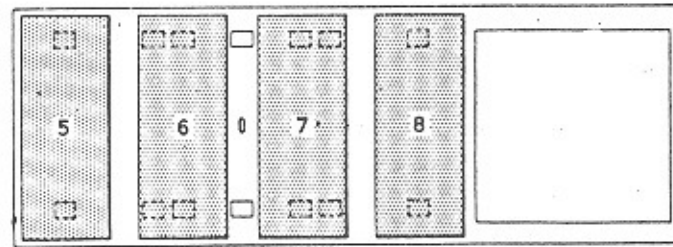
SERVICE PART NO.	ENGINEERING PART NO.	ITEM	QTY.	HARDWARE	
300-05419	H-5419	Display Panel (100 Sel.)	1	#8-32 x 3/8 Phillips Truss Head Machine Screw	(1)
202-11355	F-11355B	Trim Bar (160 Sel.)	2		
412-02508	L-2508L	Pushbutton (Blank)	5	#8-32 Hex Machine Screw Nut	(3)
200-08652	F-8652	Speed Clip (U Type)	5	#8 Machine Screw Washer	(3)
200-11419	F-11419	Speed Clip (Alt.)	5		
200-07552	F-7552	Pushbutton Stop	5		
200-11719	F-11719	Conversion Instructions	1		
400-05223	L-5223	Display Panel—Upper	1		
200-11718	F-11718	Supporting Strip	3		

• INSTRUCTIONS (200-TO-160)

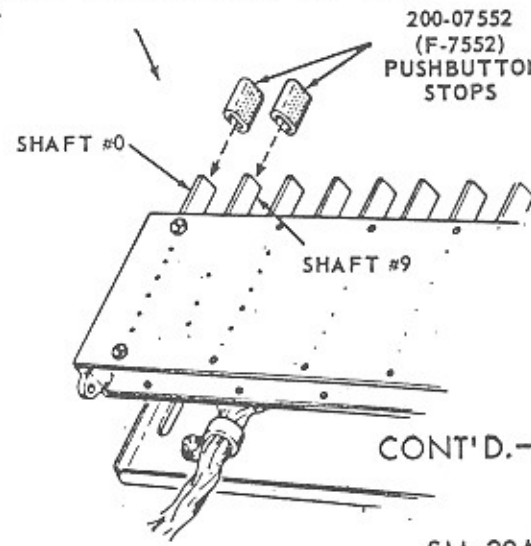
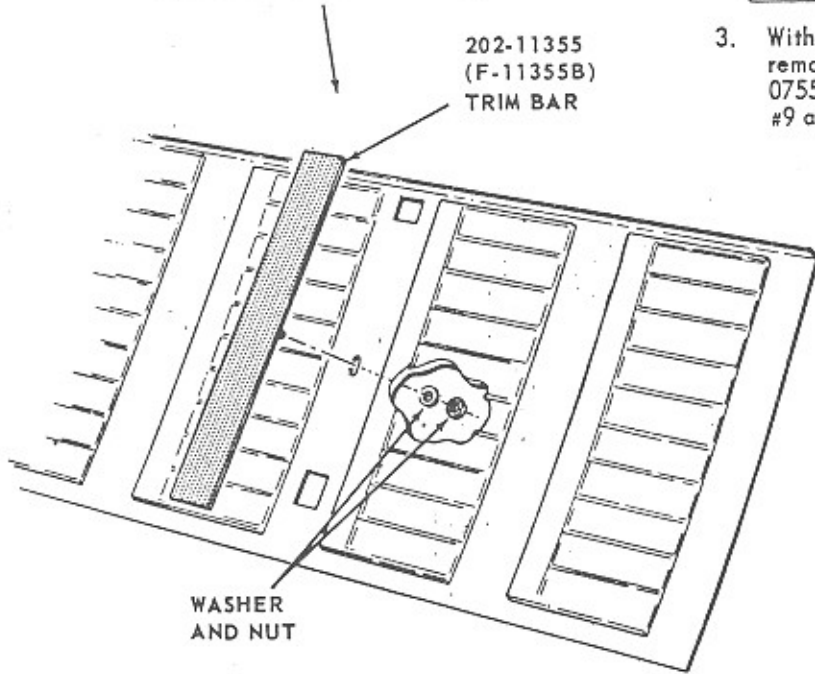
1. With top door open, remove #9 and #0 title racks from lower panel. Place title racks #7 and #8 to right of center of panel. Remove #5 title rack from top panel and place where #6 rack is in lower panel moving #6 rack just to left of center. Reposition racks #2, #3 and #4 leaving center of panel open.



2. Assemble 202-11355 (F-11355B) Trim Bar to center of both panels using washers and nuts.

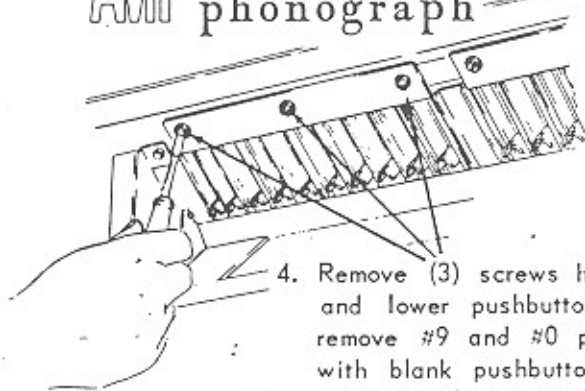


3. With front door opened, to widest position, remove selector bank assembly and slip 200-07552 (F-7552) Pushbutton Stop over shafts #9 and #0.

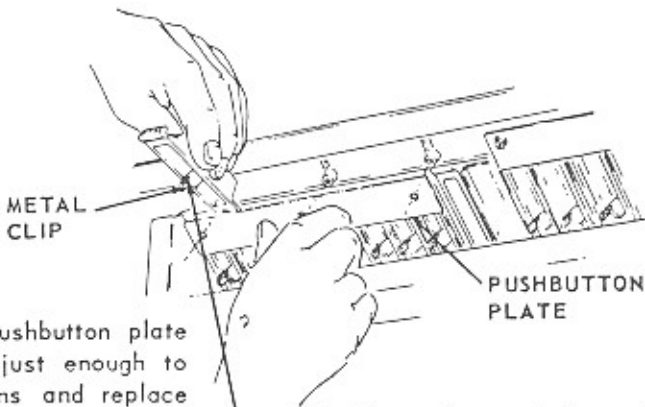


Rowe
AMI

phonograph



4. Remove (3) screws holding pushbutton plate and lower pushbutton plate just enough to remove #9 and #0 pushbuttons and replace with blank pushbuttons. Replace pushbutton plate & selector assembly. Pushbuttons must have metal clips over ends which push against selector assembly shafts.

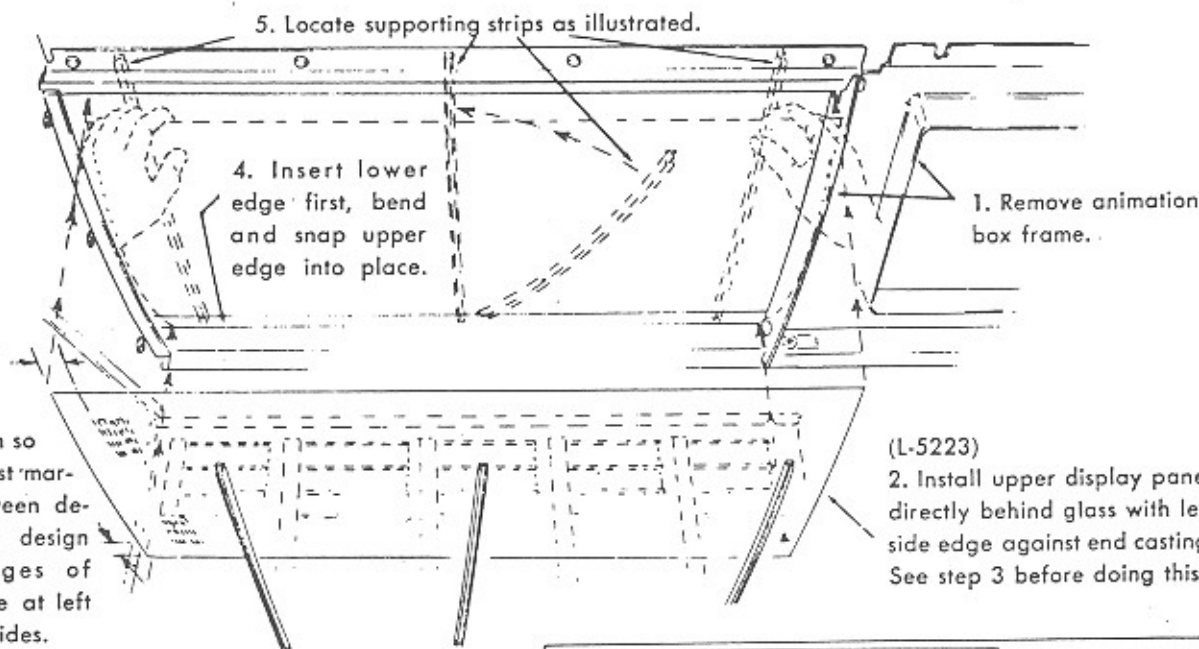


METAL CLIP

PUSHBUTTON PLATE

5. Place fast spiral or old records in A9 thru V9 and A0 thru V0 positions in record magazine.

● INSTRUCTIONS (200-TO-100)



5. Locate supporting strips as illustrated.

4. Insert lower edge first, bend and snap upper edge into place.

1. Remove animation box frame.

3. Position so that widest margins between decorative design and edges of panel are at left and top sides.

(L-5223)

2. Install upper display panel directly behind glass with left side edge against end casting. See step 3 before doing this.

6. With top door open remove all title racks from panels and place racks #1, 2, 3, 4 and 5 in lower panel.
7. Remove screw from lower left hand corner of top panel and insert decorative display panel on title rack panel. Replace screw and add screw, washer and nut to fasten lower right corner of decorative panel.
8. Same as #3 for 160 conversion except place F-7552 Pushbutton Stop over shafts #6 thru #0.
9. Same as #4 for 160 conversion except replace buttons #6 thru #0. Pushbuttons must have metal clips over ends which push against selector assembly shafts.
10. Place fast spiral or old records in A6 thru V6, A7 thru V7, A8 thru V8, A9 thru V9 and A0 thru V0 positions in record magazine.

