



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

September 23, 1955

BULLETIN NO. 114

TO: All Distributing Office Service Personnel

SUBJECT: Light Diffuser

The white plastic, light diffuser material, which is stored behind the record rack and installed after unpacking, may have a tendency to curl due to temperature changes. It may be necessary to either lay it on a flat surface over night or install it between the support rails in the phonograph and temporarily tape the ends to the rails.

If the material is too short, because of its being rolled for shipment, it may be lengthened by stretching. If it is too long, simply cut off the excess at one of the folds with a pair of ordinary household scissors.

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AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

November 11, 1955

BULLETIN NO. 115

TO: All Distributing Office Service Personnel

SUBJECT: G. E. Cartridge Modification

The new "Clip-In Tip" stylus assembly is now used in the General Electric Cartridges furnished in Model "G" phonographs. This change is effective beginning approximately with the following serial numbers:

G-120	-	321,100
G-80	-	310,375
G-40	-	300,187

The change in the stylus assembly coincides with a change in the cartridge which has been introduced by the General Electric Company. While the performance of the cartridge remains identical to that of the previous cartridge, the stylus assembly is not interchangeable between the two cartridges. New part numbers have therefore been issued as listed below, as well as the Service Part numbers for the new replacement styli. Please use the appropriate part number when ordering replacements.

<u>PREVIOUS</u>		<u>PRESENT</u>	<u>SERVICE REPLACEMENT</u>
F-846	Cartridge (45 rpm) (With F-3756 Stylus)	F-3755	
F-2646	Stylus - Sapphire (45 rpm)	F-3756	F-2912
F-2079	Stylus - Diamond (45 rpm)	F-3754	F-2913
F-984	Cartridge (78 rpm) (With F-3758 Stylus)	F-3757	
F-2645	Stylus - Sapphire (78 rpm)	F-3758	F-2914
F-3123	Stylus - Diamond (78 rpm)	F-3759	F-2915

You are urged to use only the genuine G. E. replacement styli in preference to the so-called "replacement styli" made by different manufacturers.

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Replacement of the stylus is carried out by pushing out the stylus holder with a paper clip as in the previous cartridge. The stylus is then removed from the holder by pulling it straight out--away from the shank of the holder. Press the new stylus into the holder. Replace the holder in the cartridge making sure that it goes "home" and that the stylus itself is approximately centered between the two pole pieces.

Stocks of the previous styli will be maintained by Service Parts for replacement purposes; however, the previous cartridges will not be stocked since they are no longer available.

If it becomes necessary to replace the G. E. cartridge in 45 rpm, Model "F" phonographs or early 45 rpm, Model "Q" phonographs, the replacement cartridge should be ordered as F-2911. This assembly is identical to the F-3755 except that a small fiber block has been cemented to the upper front part of the cartridge so that it will be held at the correct angle in the tone arm. This distinction need not be made in the case of Model "Q", 45 rpm tone arms in which a small boss has been cast which serves the same purpose. The block must be removed from the F-2911 if it is to be used for replacement in Model "Q" tone arms in which the boss is cast. This tone arm revision occurs approximately at the same serial numbers as the new cartridge.

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AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

February 14, 1956

BULLETIN NO. 116

TO: All Distributing Office Service Personnel

SUBJECT: Repair of Cabinet Finishes

When it becomes necessary to re-finish cabinet areas larger than six or seven square inches, it should be done by spraying. The attached chart for Speckle Tone finishing materials explains the mixing ratios and procedures. In general, because of the shelf life limitations, materials should not be ordered from the factory in advance of 30 days before usage.

If the cabinet has been damaged so that gouging of the wood has occurred, the usual filling techniques should be employed, using plastic wood, or similar fillers to make the damaged area flush with the surrounding area. If fillers or inlay patches are used, two coats of primer lacquer should be used instead of the usual one coat.

All traces of the old Rel-Var must be removed from the area to be re-finished. This must be done with fine sandpaper (0-3/0) and steel wool. Dust and carefully mask off the area to be patched.

The primer coat is sprayed on the cabinet in the normal way, using conventional techniques. Normally, one coat only is applied and allowed to air dry at least one hour. If, under special circumstances, two coats of primer are required, one hour minimum drying time between coats must be allowed. The color of the priming lacquer, of course, is determined by the color of the cabinet being repaired.

The spray equipment used for spraying the Speckle Tone (the mixture of the primary, secondary and accent colors) is standard in most respects. The nozzle is special and is a Hinks #53PS. The average tank pressure is 15 psi and the atomizing pressure 42 psi. These are varied by the operator to suit the age, temperature of the mixture, etc., the governing factor being the results obtained on the surface being sprayed. For small spray equipment (gun and tank attached), the normal agitation in handling the gun and paint container is sufficient to keep the paint mixture thoroughly mixed. For large equipment where the paint tank is separate from the gun, motor driven agitation must be used to keep the paint particles in suspension. Generally speaking, the agitator speed required will be in the range of 40 to 100 rpm depending upon the temperature of the mixture. Insufficient agitator speed will not give adequate suspension of the particles, while too much agitation will break up the particles and cause them to dissolve into the solution.

The equipment used for spraying the gold flitter is basically the same as that used for Speckle Tone; however, the nozzle should be changed to a Binks #68PB. Should it be impossible to locate the #68PB nozzle, application of the flitter is possible with a #53PB nozzle but the pattern will not be as even and some difficulty will be experienced with the particles clogging the nozzle and gun.

The flitter is applied with the tank pressure set at 20 - 25 psi and an atomizing pressure of 80 psi. The agitator should be operating within the range of 40 - 100 rpm.

Application of the flitter must be made immediately while the Speckle Tone is still in a very "wet" condition. The spray gun should be held approximately 24 - 36 inches from the area to be covered, while making a very fast "pass" and allowing the flitter to "drift" on the cabinet.

This coat will dry sufficiently for further finishing in about four hours. This can be accelerated to about one half hour by oven drying. The temperature used is 90° - 100° F. with a relative humidity of approximately 35%.

The final coat, or Rel-Var finish, is sprayed over the Speckle Tone by conventional methods. One coat only is used and it will air dry to sufficient hardness for further handling in four to six hours. The drying time can be accelerated to a maximum of 90 minutes by oven drying at a temperature of 130° to 140° F. with a relative humidity of approximately 35%. The Rel-Var continues to harden so that ten days to two weeks after spraying, its surface is tough enough to resist acetone, alcohol, reasonable abrasion, cigarette burns and similar abuse. When kept separately, the Rel-Var and its catalyst have unlimited shelf life. Once mixed, the shelf life of the mixture is from three to seven days.

It is suggested that finishing materials not be mixed until the actual spraying is to proceed and then only in quantities sufficient for the job on hand. Mixing instructions and order quantity information are given on the enclosed chart of Speckle Tone finishing materials.

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Encl: Chart of Speckle Tone Finishing Materials

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FINISHING MATERIALS

Due to the ages of the individual colors, variations in batches, the distance that the gun is held from the work, temperature, etc., the mixtures given below are approximate. The exact mixture required for a given job must be determined by comparing results obtained with trial mixtures to the desired finish such as a standard sample, or the surrounding area finish if patching is being done.

Listed below, under the headings of cabinet colors, are the materials required for each particular color. The field color, secondary color and accent color are to be mixed together in the proportions shown, subject to the comments above. The primer is, of course, not mixed with these, nor is the Rel-Var. Before the Rel-Var is used, the catalyst is mixed with it in the proportion shown.

Material required to refinish one photograph cabinet:

CABINET COLOR		MIXTURE SIZE
<u>Delft Blue</u>		
Blue Primer	#4224	2 Quarts
Blue Field	#4214	2 "
Yellow Tint Primer	#3970	1 Pint
Yellow Tint Field	#3975	1 "
Gold Flitter	#F-5355	1 "
+ Rel-Var	#B-5875	2 Quarts
+ Catalyst	#12556	1 Ounce
<u>Canary Yellow</u>		
Yellow Primer	#4218	2 Quarts
Yellow Field	#4211	2 "
Yellow Tint Primer	#3970	1 Pint
Yellow Tint Field	#3975	1 "
Gold Flitter	#F-5355	1 "
+ Rel-Var	#B-5875	2 Quarts
+ Catalyst	#12556	1 Ounce
<u>Chartruese Green</u>		
Green Primer	#4217	2 Quarts
Green Field	#4212	2 "
Yellow Tint Primer	#3970	1 Pint
Yellow Tint Field	#3975	1 "
Gold Flitter	#F-5355	1 "
+ Rel-Var	#B-5875	2 Quarts
+ Catalyst	#12556	1 Ounce
<u>Night-Sky Black</u>		
Black Primer	#3519	2 Quarts
Black Field	#3810	2 "
Yellow Tint Primer	#3970	1 Pint
Yellow Tint Field	#3975	1 "
Gold Flitter	#F-5355	1 "
+ Rel-Var	#B-5875	2 Quarts
+ Catalyst	#12556	1 Ounce

CABINET COLOR

MIXTURE SIZE

Bright Sand

Yellow Tint Primer	#3970	2-1/2 Quarts
Yellow Tint Field	#3975	2-1/2 "
Gold Flitter	#F-5355	1 Pint
+ Rel-Var	#B-5875	2 Quarts
+ Catalyst	#12556	1 Ounce

Cherry Red

Red Primer	#1222	2 Quarts
* Red Field	#1213	2 "
* Grey Secondary	#3809	1-1/2 Ounces
* Black Accent	#3810	2 Ounces
Yellow Tint Primer	#3970	1 Pint
Yellow Tint Field	#3975	1 "
Gold Flitter	#F-5355	1/2 Pint
+ Rel-Var	#B-5875	2 Quarts
+ Catalyst	#12556	1 Ounce

Atoll Coral

Coral Primer	#3807	2 Quarts
* Coral Field	#3796A	2 "
* White Secondary	#3808	3 Ounces
* Black Accent	#3810	2 "
Yellow Tint Primer	#3970	1 Pint
Yellow Tint Field	#3975	1 "
+ Rel-Var	#B-5875	2 Quarts
+ Catalyst	#12556	1 Ounce

Emberred Charcoal

Charcoal Primer	#3819	2 Quarts
* Charcoal Field	#3815	2 "
* White Secondary	#3808	4 Ounces
* Coral Accent	#3816	2 "
Yellow Tint Primer	#3970	1 Pint
Yellow Tint Field	#3975	1 "
Gold Flitter	#F-5355	1/2 Pint
+ Rel-Var	#B-5875	2 Quarts
+ Catalyst	#12556	1 Ounce

* To be mixed together.

+ To be mixed together.



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AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

April 3, 1956

BULLETIN NO. 117

(Replaces Bulletin #104)

TO: All Distributors

SUBJECT: H-1937 Touch-Up Kit for Brushing

Small scratches in the finish of the Model "F" and "G" phonograph cabinets can easily be touched up by the use of small brushes and the proper color lacquers. Any of the cabinet colors can be touched up by this method, using the correct colors and material included with the kit. It is necessary to know the basic colors which make up the overall cabinet color. These are given in the chart below. The "field" color indicated is the background color in which will appear irregularly shaped particles of the "secondary" and "accent" colors. Note that all Model "G" cabinets have a yellow tint door with gold glitter as the accent color.

CABINET
COLOR

FIELD
COLOR

SECONDARY
COLOR

ACCENT
COLOR

Model "F"

1. Firecracker Red	Red	Grey	Black
2. Emberred Charcoal	Charcoal Grey	White	Coral
3. Bright Sand	Ivory	Black	Red
4. Atoll Coral	Peach	White	Black
5. Happy Blue	Blue	Grey	"
6. Paddy's Green	Green	White	"
7. Sunburst Yellow	Yellow	Grey	"
8. Tahitian Brown	Brown	Red	White

Model "G"

9. Cherry Red	Red	Grey	Black
	Yellow Tint	Gold	None
10. Emberred Charcoal	Charcoal Grey	White	Coral
	Yellow Tint	Gold	None
11. Atoll Coral	Coral	White	Black
	Yellow Tint	Gold	None

CABINET COLOR	FIELD COLOR	SECONDARY COLOR	ACCENT COLOR
<u>Model "G" (Cont.)</u>			
12. Canary Yellow	Yellow	Gold	None
	Yellow Tint	"	"
13. Delft Blue	Blue	"	"
	Yellow Tint	"	"
14. Chartruese Green	Chartruese	"	"
	Yellow Tint	"	"
15. Night-Sky Black	Black	"	"
	Yellow Tint	"	"
16. Bright Sand	Yellow Tint	"	"

For small touch-up applications for which this method is recommended (for patching areas larger than 6 or 7 square inches, see Bulletin No. 116 for Model "G" colors and Bulletin No. 103 for Model "F" colors) it is not necessary to remove the Rel-Var from the damaged area; however, the area to be touched up should be roughened with sandpaper to improve adhesion to the varnished surface. Apply the field color with a paint brush, small cloth or piece of sponge. Do not brush or smooth out. The application must be such as to leave a rough surface to match the surrounding areas. While this is still in a "wet" condition, blow a small quantity of gold flitter from a piece of paper, to match the original finish. The secondary and accent colors may be added after the field color is dry, by using the small #0 brush and carefully duplicating the existing accent and secondary colors for size, shape and quantity.

The touch-up kit consists of three brushes and two ounce bottles of the following lacquers and gold flitter.

F-1990	Red	F-1997	Yellow
F-1991	Gray	F-1998	Brown
F-1992	Ivory	F-1999	White
F-1993	Peach	F-2925	Chartruese
F-1994	Black	F-2926	Yellow Tint
F-1995	Blue	F-2927	Blue Grey
F-1996	Green	F-2928	Gold Flitter

F-1960	1/2"	Flat brush - General purpose brush for dusting, etc.
F-1961	#0	Red sable brush - for spotting
F-1962	#1	Camel's hair brush - for field color application

The price to Distributors of the above kit is \$5.00 net.

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AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

April 10, 1956

BULLETIN NO. 118

TO: All Distributors

SUBJECT: Credit Unit Reset Magnets

The reset magnet in the R-299 Credit Unit of all "G-80" and "G-120" Phonographs has been changed. The reset magnet now being used bears the part number F-3234 and replaces the F-650 Reset Magnet formerly used. The change is effective approximately with the following serial numbers: "G-80" - 310897, "G-120" - 322642.

The F-3234 is the same reset magnet which, under part number F-1939, was recommended as a replacement for the F-650 Reset Magnet in cases where machines were being cheated by light tapping on the selector pushbuttons.

In field cases, where the F-1939 is required to replace an F-650, it may now be ordered from the factory under its new part number, F-3234.

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AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

April 19, 1956

BULLETIN NO. 119

TO: All Distributing Office Service Personnel

SUBJECT: Pulse Converter Change

A change is being incorporated in the pulse converter circuit. This change is being made to provide greater reliability in the operation of this unit.

Basically the changes being made are to add one contact blade to time delay relay #2 and to change one pair of normally closed contacts on the transfer relay to a normally open pair. Thus time delay relay #2 will have one pair of normally closed contacts plus a set of transfer contacts. The transfer relay will have two pairs of normally opened contacts, one pair of normally closed contacts and a transfer set.

The change in circuitry allows the transfer relay to pick up through the action of the closing transfer contacts of time delay #2. The newly added normally open contacts of the transfer relay then act as holding contacts and hold the transfer relay energized as long as the home switches on the steppers are closed. Once these contacts open and the transfer relay falls out, it cannot be re-energized until more pulses are received and time delay #2 is re-energized.

The change is effective approximately with serial number 350310. The schematic diagram on the lower door of the phonograph is the corrected version and shows the pulse converter circuit as it has been changed.

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AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

April 20, 1956

BULLETIN NO. 120

TO: All Distributors

SUBJECT: Change of Crediting

All G-200 phonographs currently being shipped from the factory are set to give one play for two nickels or a dime and three plays for a quarter.

Phonographs with serial numbers 350,000 through approximately 350,450 have three credit magnets in the credit unit while those with serial numbers after 350,450 have four credit magnets.

The credit unit of any of these phonographs may be changed to give credit combinations as listed in the three categories listed below.

- I. 1 Play 2 Nickels or a Dime, 4 Plays 25¢
- II. 1 Play 5¢, 2 Plays 10¢, 5 Plays 25¢
- III. 1 Play 5¢, 2 Plays 10¢, 6 Plays 25¢

Phonographs may be changed according to the following directions to give the desired credit combinations.

- I. 1 Play 2 Nickels or a Dime, 4 Plays 25¢

A. A phonograph with three credit magnets may be changed as follows:

- 1. Remove the black wire from terminal #6 at the Jones plug socket near the coin switch and solder it to terminal #4 of the same socket.
- 2. Replace the H-1286 Program Panel with an H-1941.

B. A phonograph with four credit magnets may be changed as follows:

- 1. Remove the screw which holds the nylon reset on the credit unit shaft.
- 2. Move the reset to its only other possible position and replace the screw.
- 3. Move the green wire from its magnet to the magnet which has no wire on its solder lug.
- 4. With reference to the Jones plug socket at the coin switch, move the black wire from terminal #6 to terminal #4.
- 5. Replace the H-1286 Program Panel with an H-1941.

II. 1 Play 5¢, 2 Plays 10¢, 5 Plays 25¢

A. A phonograph with three credit magnets may be changed as follows:

1. Remove the screw which holds the nylon reset to the credit unit shaft.
2. Rotate the nylon reset to its only other possible position and replace the screw.
3. With reference to the Jones plug socket at the coin switch
 - a. remove the black, white and yellow wires
 - b. solder the black wire to terminal #2
 - c. solder the yellow wire to terminal #4
 - d. solder the white wire to terminal #6
4. Replace the H-1286 Program Panel with an H-1945. .
5. Set the nickel diverter on the slug rejector so that the next nickel through the rejector will actuate the coin switch and turn the small stop screw all the way in so that the nickel diverter cannot flip over.

B. A phonograph with four credit magnets may be changed as follows:

1. With reference to the Jones plug socket at the coin switch, move the yellow wire to terminal #4
2. With reference to the credit unit, move the blue wire from its magnet to the magnet which has no wire on its solder lug.
3. Replace the H-1286 Program Panel with an H-1945.
4. Modify the slug rejector as previously described.

III. 1 Play 5¢, 2 Plays 10¢, 6 Plays 25¢

A. A phonograph with three credit magnets may be changed as follows:

1. Change the position of the nylon reset as previously described.
2. With reference to the Jones plug socket at the coin switch
 - a. remove the black, white and yellow wires
 - b. solder the black wire to terminal #2
 - c. solder the yellow wire to terminal #4
 - d. solder the white wire to terminal #6
3. Move the credit magnet with the green wire on its solder lug to the mounting hole next to the magnet with the blue wire on its solder lug.
4. Replace the H-1286 Program Panel with an H-1942.
5. Modify the slug rejector as previously described.

B. A phonograph with four credit magnets may be changed as follows:

1. On the Jones plug socket at the coin switch, move the yellow wire to terminal #4.
2. With reference to the credit unit
 - a. move the credit magnet with no wire attached, one position, to the mounting hole next to the magnet with the green wire on its solder lug.
 - b. move the blue wire from the solder lug of its magnet to the magnet which has just been moved
3. Replace the H-1286 Program Panel with an H-1942.
4. Modify the slug rejector as previously described.



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AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

June 6, 1956

BULLETIN NO. 122

TO: All Distributing Office Service Personnel

SUBJECT: Belt Tension

The proper record magazine belt tension on the G-200 is adjusted as follows:

Assuming the belt to be in a loosened condition, raise the top belt roller brackets one hole at a time until the point is reached where the belt begins to touch itself, just below the rollers. (The roller brackets have a detent which must be seated in one of the holes in the bracket and support assembly.)

When the belt touches itself, lower one of the brackets to the next lowest hole in the bracket and support assembly and tighten the screws securely.

Rotate the record magazine one or two revolutions by pressing the scan button. By rotation of the record magazine the tension will be equalized throughout the belt. Recheck to determine if further tightening is necessary.

Proper belt tension, as measured near one of the top rollers, is 2-1/2 to 4-1/2 pounds.

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

June 26, 1956

BULLETIN NO. 123

TO: All Distributing Office Service Personnel

SUBJECT: Additional Fuse - Q-200

Normally the DC power supply is protected by two 0.8 ampere Slo-Blo fuses. However, in cases where a short circuit develops in the rectifier, current through the transformer is limited only by an 8.0 ampere straight fuse. This amount of current through the transformer will result in destruction of the transformer before the 8.0 ampere fuse will blow.

Beginning with phonographs of approximately serial number 352,325, a 2 ampere straight (quick-blow) fuse has been installed in the junction box. The fuse is inserted in the primary circuit of the transformer. Its physical location is at the end opposite the large electrolytic capacitor, or the front end of the junction box as it sits in the phonograph.

The fuse is to protect the transformer from damage in cases where the rectifier should become internally shorted.

In phonographs previous to serial number 352,325, which are not equipped with this fuse, this protection may be obtained by placing an inline type fuse holder with a 2 ampere fuse directly in one leg of the power cord leading to the junction box Jones plug.

If it is desirable, a block type fuse holder may be mounted inside the junction box so long as the fuse appears in the same electrical part of the circuit.

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AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

June 26, 1956

BULLETIN NO. 124

TO: All Distributing Office Service Personnel

SUBJECT: H-1968 Conversion Kit for Modifying the A M I G-200 Phonograph to Operate with Seeburg Wall Boxes

General

The pulse train generated by Seeburg 100 and 200 Wall Boxes differs from the A M I Wall Box pulse train in three significant ways.

1. The number (digit) pulses are sent first and the letter (level) pulses last.
2. Compared to the A M I system, at the beginning of the number pulse train there is one extra pulse and at the beginning of the letter pulse train there is one less pulse.
3. The time interval between pulse trains is longer in the Seeburg system than in the A M I system.

There is also no provision for A.C. control or "Wait" light circuits in the Seeburg system.

The H-1968 Seeburg Conversion Kit supplies the necessary parts to adapt the G-200 so that it will function properly from Seeburg Wall Boxes.

The kit contains the following components:

- | | | |
|---|---------|--------------------------------------|
| 1 | H-1909 | Pulse Generator (Seeburg Conversion) |
| 1 | F-2955 | Switch Assembly |
| 1 | F-2196 | Electrolytic Capacitor |
| 1 | S-106 K | Carbon Resistor (1/2 Watt) |
| 1 | F-2951 | Seeburg Conversion Instruction Sheet |

June 26, 1956

The R-1909 Pulse Generator contains a special commutator which produces pulse trains compatible with the Seeburg system. In all other respects it is identical to the standard pulse generator in the G-200. Credit will be issued upon the return of the original pulse generator to the factory.

The homing switch assembly in the pulse converter must be replaced by the F-2955 Switch Assembly so as to allow for the change in order of the transmission of the number and letter pulse trains.

Additional time delay must be provided for relay TD-2 and in some cases for TD-1.

All wiring changes and adjustments are fully covered by means of our instruction sheet included with the kit.

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AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

June 26, 1956

BULLETIN NO. 125

TO: All Distributing Office Service Personnel

SUBJECT: H-1967 Dual Credit Conversion Kit for Modifying the Standard G-200 Phonograph to Provide both 10¢ and 15¢ Price-Per-Play

General

Converting a G-200 Phonograph for dual price-per-play requires the installation of an accumulator-type credit unit which will register various amounts of credit according to the value of the coins deposited by the customer. In addition, the pulse generator must be so equipped to cancel the proper amount of credit in the credit unit when either a 10¢ or a 15¢ selection is made.

The H-1967 Dual Credit Conversion Kit contains the following:

- | | | |
|---|----------|--|
| 1 | L-1275 | Credit Unit & Mounting Plate Assembly |
| 1 | R-1223 | Dual Credit Pulse Generator |
| 1 | L-1265 | Harness & Plug Assembly (Phonograph) |
| 1 | F-5200 | Harness & Plug Assembly (Coin Switch) |
| 2 | F-5196 | Mounting Bracket (Credit Unit) |
| 4 | #8 x 5/8 | Phillips Round Head Self Tapping Screws |
| 1 | H-1247 | Program Panel - Pulse Generator (5¢, 10¢, 15¢ or more) |
| 1 | H-1313 | Program Panel - Dual Pricing (Coin Inlet) |
| 3 | H-1307 | Price Strip (10¢ Selections) |
| 2 | H-1306 | Price Strip (15¢ Selections) |

Recommended procedure for conversion.

1. Remove pulse generator from phonograph.
2. Remove program panel (10¢, 3 for 25¢ credit light window from pulse generator frame).
3. Install H-1247 Program Panel (5¢, 10¢, 15¢ or more).

4. Disconnect coin switch plug. On pin #2 of the male socket which is connected directly to the coin switches, two wires are connected. Move the yellow wire only from pin #2 to pin #4.
5. Set slug rejector nickel diverter (flipper) in position which causes all nickels to pass through 5¢ coin switch. Loosen lock nut on small screw next to nickel diverter pivot and turn screw all the way in to block diverter permanently in this position. Tighten lock nut.
6. Remove coin inlet program panel (10¢, 3 for 25¢).
7. Install H-1313 Program Panel (10¢, 3 for 25¢ and 15¢, 2 for 25¢).
8. Remove phonograph cable harness which connects to coin switches, mechanism, phonograph junction box and pulse generator.
9. Install L-1265 Harness & Plug Assembly, following same routing as original harness. This new cable provides two plugs for the dual price generator.
10. Install R-1223 Pulse Generator and connect plugs.
11. Attach mounting brackets for dual price credit unit to inside surface of lower front door using #8 x 5/8 screws. Credit unit should be located so that free-play button is at the left (facing the credit unit), with the unit slightly to the right of the center of the door and about 3-1/2 inches below the bottom edge of the trim strip along the top edge of the door. The door must close without interference between the credit unit and any other components or partitions inside the cabinet. The cable plugs must connect without stretching the wires.
12. Install credit unit by inserting shock mounts into holes of mounting brackets. Twisting mounting screws clockwise will lock shock mounts in place. Attach plug from phonograph harness.
13. Install F-5200 Harness & Plug Assembly between coin switches and credit unit.
14. Install price strips in title racks. (A, B, C, D, E, & F will be 10¢ play. G, H, J, & K will be 15¢ play.)

Credit will be issued upon return of the original pulse generator and phonograph harness to the factory.

If it is desired to use the accumulator feature of the credit unit and not employ 15¢ price-per-play, remove the metal plates (approximately 1 inch square) which are deflected by the ends of the pushbutton shafts behind G, H, J, and K buttons. Pricing will then be straight 10¢, 3 for 25¢.



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AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

July 5, 1956

BULLETIN NO. 126

TO: All Distributing Office Service Personnel

SUBJECT: Anti-Cheat Devices for the G-200

Two new devices are being added to the G-200 Phonograph to prevent the possibility of being able to cheat the machine.

One form of cheating has been by means of inserting a wire between the pulse generator pushbuttons and manipulating the wire so as to receive free plays. The H-1188 Anti-Cheat Plate is being added to the pulse generator which will eliminate the possibility of being able to get the wire through the pushbutton.

The second form of cheating has been by means of inserting a wire between the front door and the edge of the cabinet thus being able to short two or more wires at the Jones plug near the coin switch. To eliminate the possibility of cheating by this method, an F-5221 Plastic Shield is being mounted on the inside of the front door in such a manner as to cover the Jones plug terminals.

The H-1188 Anti-Cheat Plate is being installed on phonographs starting approximately with serial number 352,629. The F-5221 Plastic Shield is being installed on phonographs starting approximately with serial number 352,559.

Both of these items may be ordered from the factory for installation on phonographs with serial numbers previous to those given above.

The H-1188 Anti-Cheat Plate is installed as follows:

1. Remove the pulse generator from the L-1083 Frame & Trim Assembly.
2. Remove all pushbuttons.
3. Remove six mounting screws which hold the pushbutton banks (3 top, 3 bottom).
4. Put H-1188 Anti-Cheat Plate in position and replace the six screws. (Note: If screws appear to be too short the washers may be removed from each of them.)
5. Replace pushbuttons.
6. Mount the pulse generator on the L-1083 Frame & Trim Assembly.

July 5, 1956

The F-5221 Shield will be accompanied by an S-1200 P Washer. It may be mounted by swinging the slug rejector away from its locked position and mounting the plastic shield, with the washer inside, to the lower door. A #8 x 1/2 inch self-tapping, type "A" screw may be used for mounting. It should fit in the countersunk area directly behind the Jones plug so that the plug, when the slug rejector is locked on its bracket, fits inside the shield.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

July 5, 1956

BULLETIN NO. 127

TO: All Distributing Office Service Personnel

SUBJECT: F-3755 Variable Reluctance Cartridge

In recent months numerous F-3755 Cartridges have been returned to the factory. In the majority of cases nothing has been wrong with the cartridge except that the stylus was no longer centered properly between the pole pieces.

It is suggested that before returning any cartridge, it be carefully examined to determine whether or not the stylus is properly adjusted. The centering adjustment is pointed out pictorially on page 25 of the G-200 Operator's Guide and on page 23 of the Model "G" Operator's Guide.

Readjustment of the stylus is easily accomplished by moving the stylus to its desired position with the thumb nail, match stick or similar device.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

August 2, 1956

BULLETIN NO. 128

TO: All Distributors

SUBJECT: H-486 Volume Compressor and F-2966 Adaptor Kit

Large variations in the recorded level of popular 45 RPM records has created a need, in some instances, for a device which will automatically compensate for these differences thus providing a constant output level from the phonograph.

We now have available an accessory unit known as the H-486 Volume Compressor. This unit can be attached to any AMI R-145 Amplifier in use with 45 RPM records.

The R-145 Amplifier will, in the near future, be equipped with a built-in receptacle to provide for easy attachment of the H-486 Compressor. In the meantime, the compressor can easily be attached to existing R-145 Amplifiers by means of a few minor circuit additions.

The F-2966 Adaptor Kit includes the H-486 Volume Compressor and the necessary connecting cable, terminal strip and instructions for installing the compressor with the R-145 Amplifier.

Pricing information may be obtained through the Sales Department.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

August 28, 1956

BULLETIN NO. 131

TO: All Distributing Office Service Personnel

SUBJECT: F-2951 Seaburg Conversion Instructions

The instruction sheet for the H-1968 Conversion Kit for modifying the AMI Phonograph to operate with Seaburg Wall Boxes has been revised.

Revision "A" of these instructions is now being supplied with each kit and should be used for all conversions.

Please destroy all F-2951 Instructions that are not marked "Revision A".

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

August 28, 1956

BULLETIN NO. 132

TO: All Distributing Office Service Personnel

SUBJECT: Dual Credit Unit

It has come to our attention that some Service Men and Operators have been expressing difficulty in getting the dual credit unit wiper arm tight enough to prevent it from slipping on its shaft. Some of them have even broken the wiper arm by excessive tightening of the clamping screw.

The purpose of this bulletin is to point out that in the large majority of cases where the wiper arm appears to be loose, the actual fault is looseness of the credit wheel on the shaft.

The credit wheel is locked to the shaft by means of an Allen set screw in the hub of the wheel. This screw can be readily seen by placing the credit wheel in its "home" position and deflecting the return spring slightly away from the wheel. It is not necessary to remove the spring to inspect or tighten this screw.

It is felt that making sure the credit wheel is tight on the shaft before attempting to tighten the wiper arm will prevent needless breakage and replacement of parts.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

October 2, 1956

BULLETIN NO. 133

TO: All Distributing Office Service Personnel

SUBJECT: L-1271 Cash Box

Starting with G-200 Phonographs at approximately serial number 354771, a new L-1271 Plastic Cash Box will replace the H-1242 Cash Bag which has been previously used.

With the use of this cash box, the amplifier tubes and phonograph casters, formerly packed for shipping in the cash bag, will be packed in the cash box compartment in back of the cash box.

Other items which have been shipped in the cash bag, prior to this change, will be packed in the cash box.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

November 20, 1956

BULLETIN NO. 134

TO: All Distributing Office Service Personnel

SUBJECT: R-145 Amplifier and H-486 Automatic Volume Control

Beginning approximately with serial number 356400 on the G-200 Phonograph and serial number 326025 on the G-80 Phonograph, a change is being made in the amplifier circuit.

This change will not effect the operation of these amplifiers in any way except when used with the H-486 Automatic Volume Control.

The purpose of this amplifier change is to provide a D.C. circuit to the 10 mfd., 50 volt condenser in the automatic volume control circuit so that the condenser will remain charged to approximately 14 volts when the amplifier is muted. This will prevent a surge or blast of sound at the start of the record which would otherwise occur after the amplifier had been muted for a period of time.

The H-486 Automatic Volume Control now being built, and furnished as a field conversion, will not function with the revised amplifier. A new H-486 Volume Control will be provided however, which is designed to operate with this new amplifier circuit. This new automatic volume control will be identified by a yellow dot on the top of the chassis. It will plug directly into a socket in the new amplifier chassis which will be provided for this purpose.

In the case of a field conversion, consisting of an automatic volume control to be used with amplifiers in phonographs with serial numbers previous to this change, the F-2966 Adaptor Kit will continue to be available and will include the automatic volume control which has been supplied in the past.

It is important to realize then that the H-486 Automatic Volume Control with the yellow dot and the one without the yellow dot are not interchangeable.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

January 4, 1957

BULLETIN NO. 135

TO: All Distributing Office Service Personnel

SUBJECT: F-2974 Revision Kit for R-1110 Pulse Converter

Beginning with phonograph G-200, serial number 357160, all machines will be furnished with pulse converters employing a gear drive between the selector drive motor and the sprag wheel.

In order to provide for field conversion from the friction drive to the gear drive, subject kits are now available. The use of this kit will not only provide gear drive but will also permit certain other revisions to be made, thus bringing the converters up-to-date. Each kit includes full instructions for use.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

January 8, 1957

BULLETIN NO. 136

TO: All Distributing Office Service Personnel

SUBJECT: Exchange of R-1110 Pulse Converter

The present pulse converters incorporate several improvements which have been brought about over a period of time. These improvements include circuit revisions, relay changes, material changes, and the most recent, gear drive.

We have now established an exchange of early converters for factory-rebuilt converters which have all up-to-date changes. These factory-rebuilt converters are available in exchange for early converters.

This exchange is based upon our receipt of a complete pulse converter. In cases where parts are missing or damaged an additional charge will be made.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

April 8, 1957

BULLETIN NO. 137

TO: All Distributors

SUBJECT: Conversion of 4-Coin Rejector

As shipped from the factory, all phonographs using a four-coin (7900 series) slug rejector will be set so that every nickel through the rejector will close the five-cent coin switch.

If, for some credit combination, it becomes necessary to set the rejector so that only every other nickel will close the switch, the procedure is explained on the attached bulletin from National Rejectors, Inc.

Additional copies of this bulletin may be obtained if desired.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

April 10, 1957

BULLETIN NO. 133

TO: All Distributing Office Service Personnel

SUBJECT: Pin Pusher Assembly on JCH-100 Phonographs

This bulletin is to call your attention to the fact that the even pin pusher, on the JCH-100 only, is offset to provide registration with the selector pins.

Do not straighten this pin pusher.

On the JAH-200 and JBH-120, both pin pushers are straight.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

April 11, 1957

BULLETIN NO. 139

TO: All Distributors

SUBJECT: Model "H" Amplifier Removal

If the amplifier is removed from the Model "H" phonograph cabinet, it will be noted that the length of the attached wires is sufficient for complete removal without their being disconnected.

When the amplifier is put back into the cabinet compartment, it is essential that the wires are carefully dressed away from the tubes and transformers so that the heat generated in these parts does not deteriorate the insulation.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

April 18, 1957

BULLETIN NO. 140

TO: All Distributors

SUBJECT: Model "H" Price per Play Combinations and Price per Play Cards

The following optional price per play cards are now available.

The H-200 may be arranged for any combination listed, dual or single price, which makes use of the half-dollar coin. The H-120 may be arranged for any price combination, dual or single price, which makes use of only three coins. The H-100 may be arranged for any of the single price rates which make use of only three coins.

When there is sufficient demand for additional combinations, they also will be made available.

DUAL PRICE COMBINATIONS 4-Coin

<u>F-2988</u>		<u>F-2989</u>		<u>F-2987</u>		<u>F-2978</u>	
Standard		Standard		Standard		Standard	
Dime or 2 Nickels	1	Dime or 2 Nickels	1	Nickel	1	Nickel	1
				Dime	2	Dime	2
Quarter	3	Quarter	3	Quarter	6	Quarter	6
Half	6	Half	7	Half	12	Half	13
E.P.		E.P.		E.P.		E.P.	
15¢	1	15¢	1	10¢	1	10¢	1
Quarter	2	Quarter	2	Quarter	3	Quarter	3
Half	4	Half	5	Half	6	Half	7

DUAL PRICE COMBINATIONS3-CoinF-2981F-2989F-2983

Standard		Standard		Standard	
Dime or 2 Nickels	1	Dime or 2 Nickels	1	Nickel	1
Quarter	3	Quarter	4	Dime	2
E.P.		E.P.		E.P.	
15¢	1	20¢	1	10¢	1
Quarter	2	Quarter	2	Quarter	3

ACCUMULATIVE4-CoinF-2979F-6313F-2991F-2990

Dime or 2 Nickels	1	Dime or 2 Nickels	1	Dime or 2 Nickels	1	Dime or 2 Nickels	1
Quarter	3	Quarter	3	Quarter	4	Quarter	4
Half	6	Half	7	Half	8	Half	9

F-2995F-2992F-2977

Nickel	1	Nickel	1	Nickel	1
Dime	2	Dime	2	Dime	2
Quarter	5	Quarter	6	Quarter	6
Half	11	Half	12	Half	13

ACCUMULATIVE3-CoinF-5882F-2994F-2993F-2982

Dime or 2 Nickels	1	Dime or 2 Nickels	1	Nickel	1	Nickel	1
Quarter	3	Quarter	4	Dime	2	Dime	2
				Quarter	5	Quarter	6



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

April 19, 1957

BULLETIN NO. 141

TO: All Distributing Office Service Personnel

SUBJECT: Special Credit Adjustments - Model "H"

In standard form, the H-200 is adjusted to provide for the following price of play:

2 Nickels	
or	1 Play
1 Dime	
Quarter	3 Plays
Half-Dollar	7 Plays

This arrangement gives a premium of 1 play for the use of a half-dollar in place of 2 quarters. In some locations it may become necessary to adjust the price of play to remove the premium feature and give only 6 plays for the half-dollar. When this is desired, proceed as follows:

- A. Manually rotate the pulse generator gear motor, moving the wiper arm to the position where it is in contact with commutator segment corresponding to selection letter "D".
- B. Loosen the set screws in the hub of the F-550 $\frac{1}{4}$ Gear and rotate the cams to a point where the switch blade drops into the notch (either notch) of the third cam (counting from the gear).
- C. Tighten the set screws in this position.
- D. Manually rotate the pulse generator gear motor, moving the wiper arm to a position where it is in contact with the commutator segment corresponding to selection Number 1.

- E. Loosen the set screws between the first and second cams and rotate these two (independently of cams 3 and 4) to a point where the lobe of the first cam, which is adjacent to one of the two set screws has just passed the actuating switch blade (i.e. the switch contacts have just opened as the result of the switch blade having dropped off the steep edge of the cam lobe).
- F. Tighten the set screws holding cams 1 and 2 in this position.

If at some other time it is desired to change the crediting back to give a premium selection for half-dollar play, proceed as follows:

- A. Manually rotate the pulse generator gear motor until the wiper arm is in contact with the commutator segment corresponding to selection Number 17.
- B. Loosen the set screws in the hub of the F-5504 Gear and rotate the cams to the point where the actuating switch blade drops into either notch on cam #3.
- C. Tighten the set screws in this position.
- D. Rotate the gear motor until the wiper arm is in contact with the commutator segment corresponding to selection letter "D".
- E. Loosen the set screws between cam #1 and cam #2 and rotate these two (independently of #3 and #4) to a point where the lobe on cam #1, adjacent to one of the two set screws, has just passed the actuating switch blade.
- F. Tighten the set screws in this position.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

April 18, 1957

BULLETIN NO. 142

TO: ALL DISTRIBUTING OFFICE SERVICE PERSONNEL

SUBJECT: Model "H" Title Rack

We have received some comments concerning the tightness of the title racks in the Model "H".

The title racks are held in place by spring clips, one along the side and one at the bottom of each rack. We intentionally set these to hold the title racks firmly so that they will not come loose during shipment.

On location, of course, the title racks need not be held so securely. It is a simple task to relieve some of the pressure by bending the springs and, especially the bottom springs and clips.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

April 19, 1957

BULLETIN NO. 143

TO: All Distributing Office Service Personnel

SUBJECT: Conversion Kit - 3 to 4-Coin Operation (H-120)

Conversion Kit, Number F-3904, is now available. The parts included in this kit will allow any H-120 Phonograph to be converted from three to four-coin operation.

Since numerous price of play combinations may be arranged with four-coin operation, no price of play card will be included with the kit.

The price of play cards which are available are listed according to part number in Service Bulletin No. 140 and should be ordered independently of the kit.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

April 19, 1957

BULLETIN NO. 144

TO: All Distributing Office Service Personnel

SUBJECT: Dual Price of Play Conversion Kits for H-120 and H-200 Phonographs

This will announce the availability of three conversion kits for use in converting either the H-120 or the H-200 to dual price of play.

Kit Number F-3903 is used to convert to dual price of play in which 15¢ is charged for one extended play selection. It can be used for converting to the price of play called for on price of play cards F-2986, F-2980, F-2981, etc.

Kit Number F-3902 is used to convert to dual price of play in which 10¢ is charged for one extended play selection. It can be used for converting to the price of play called for on price of play cards F-2987, F-2978, F-2983, etc.

Kit Number F-3905 is used to convert to dual price of play in which 20¢ is charged for one extended play selection. It can be used for converting to the price of play called for on price of play card F-2989, etc.

It is necessary to order the desired price of play card by part number, as outlined in Bulletin #140, independently of the conversion kit.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

May 6, 1957

SERVICE BULLETIN NO. 145

TO: All Distributing Office Service Personnel

SUBJECT: 2-452 Burnishing Tool

Clean electrical contacts are of vital importance in the coin machine business, but improper cleaning can cause more difficulty than the original accumulation of foreign matter on the contact. Contacts should not be filed.

To make sure that the proper tools are available for the job, we are introducing a contact burnisher that will clean the contacts without damaging them, and which leaves no residue. The burnisher is small and flexible enough to reach contacts in close quarters, and comes in a protective, plastic case.

These burnishing tools can be ordered from the Service Parts Department as Tool No. 2-452, at a very nominal cost.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

May 14, 1957

BULLETIN NO. 146

TO: All Distributing Office Service Personnel

SUBJECT: Instructions for Providing Prices of Play - Chart R-1918

Subject instruction chart, a copy of which is enclosed, has been prepared to furnish step-by-step instructions for setting any Model "H" Phonograph for any price combination for which price cards are available. This information has been prepared in chart form for use until it is published in the service manual.

To use the chart, first locate the desired price combination and its identification number. Locate the column in the chart identified by the same number and make sure that each condition checked in that column exists in the phonograph.

Extra copies of this chart for use until the service manual is available, can be had on request.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

May 10, 1957

BULLETIN NO. 147

TO: All Distributors

SUBJECT: F-3912 "Wait" Control Unit Kit

W-80 and W-120 Wall Boxes may be operated with the G-200, H-200 and H-120 Phonographs but since these wall boxes normally operate on a three-wire cable, there is no "Wait" system for the wall boxes as is provided when a WQ-200 Wall Box is operated with these phonographs.

The lack of this "Wait" system will allow any wall box to be operated even though the phonograph pulse converter may be cycling in response to signals from another wall box. This is not likely to happen when only a small number of wall boxes is used but, when it does occur, improper selections will be made by the phonograph.

We are providing an F-3912 "Wait" Control Unit Kit, which will give the desired "Wait" feature when the W-80 and W-120 Wall Boxes are connected, through a four-wire cable, to the above mentioned phonographs. The kit consists of a small box containing a relay and other parts which are required plus complete installation instructions.

Besides this kit, which is mounted in the phonograph, an F-3906 Three-Terminal Barrier Strip will be required for each wall box involved in any installation. The necessary quantity of these barrier strips should be ordered in addition to the "Wait" control unit kit.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

June 14, 1957

BULLETIN NO. 148

TO: All Distributing Office Service Personnel

SUBJECT: Periodic Lubrication of Selector Pins.

During the assembly of the L-1062 Pin Wheel the F-3402 Selector Pins are lubricated with a light film of oil.

It is recommended that these pins be re-lubricated about once a year with a high grade machine oil (AMI F-1379 or equivalent).

All 200 pins can be oiled quickly by the following method:

1. Reset all pins.
2. Apply oil to a cotton swab and run the swab around the outside row of pins, between the two rows, and around the inside of the inner row of pins.
3. Push all pins to the selected position by hand and lubricate as above.

In very hot climates it may be advisable to lubricate the pins more frequently than once a year.

In all reported cases of sticking pins, lubrication has restored the machine to normal profitable operation.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

June 17, 1957

BULLETIN NO. 119

TO: All Distributing Office Service Personnel

SUBJECT: H-1139 Scan Control Assembly

The purpose of this bulletin is to clarify the adjustments of the scan control assembly.

The height of the scan magnets should be such that the maximum gap between the armature and the core of the magnet closest to the side of the mechanism is $5/64$ " when the magazine has stopped electrically - not after rotating the magazine with the "manual rotate" button.

When the armature is pulled down, the brace rivets in the armature should touch both magnet cores.

The scan and turntable switch should click "off" when the popularity meter has rotated the scan control wheel to the point where the pin on the reverse side of the wheel is $1/32$ " to $1/16$ " from the stop tab on the mounting bracket. This can be best observed by removing the popularity meter cover and looking down past the popularity meter solenoid. Shifting the switch and bracket from side to side will vary the gap existing at the time the switch shuts off. In its final position the switch bracket should be as far down as possible and should not be tilted.

APPLICATIONS ENGINEERING

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Service Bulletin

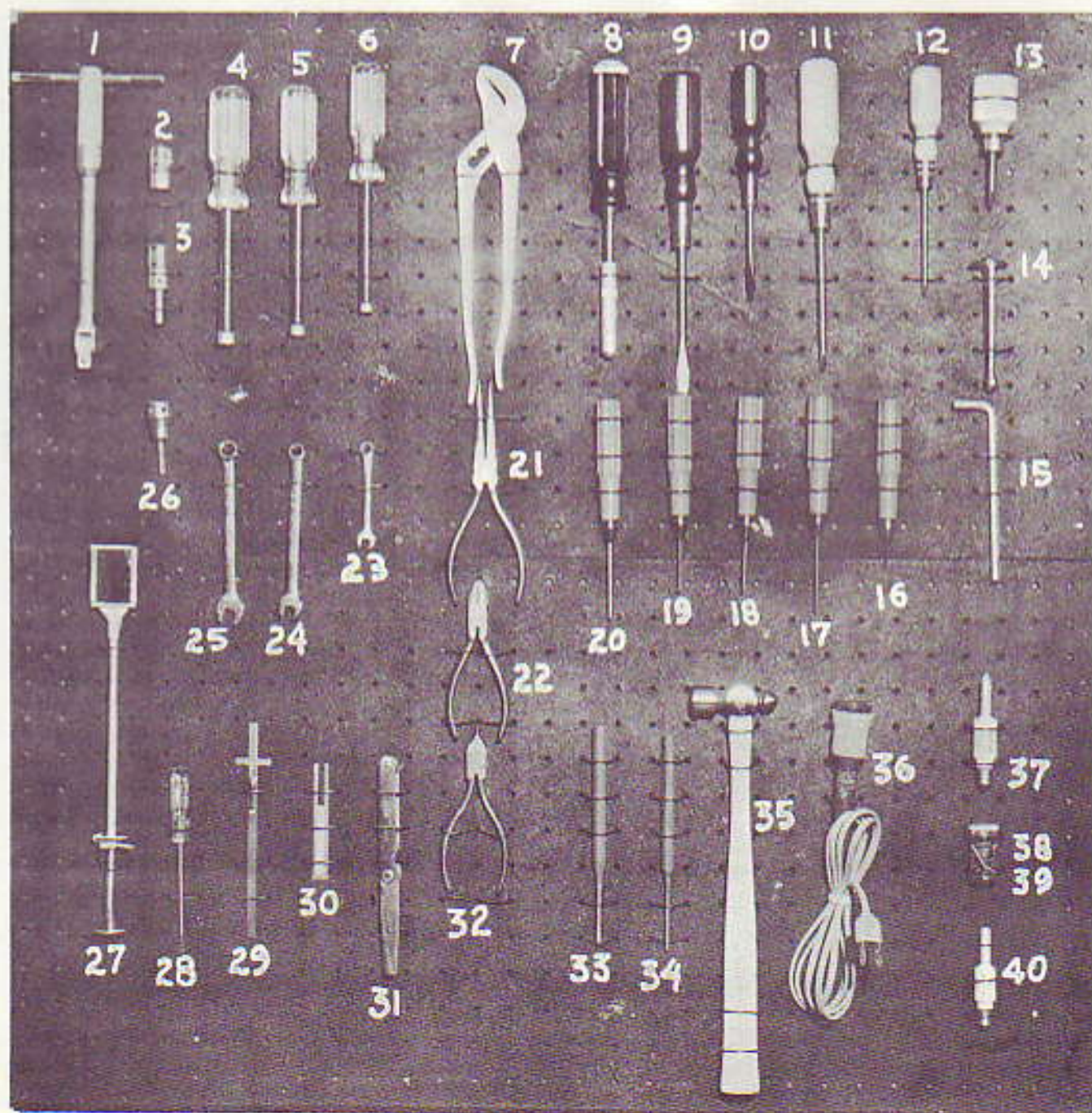
AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

July 15, 1957

BULLETIN NO. 150
(Supersedes Bulletin No. 121)

TO: All Distributors

SUBJECT: Z-420 Tool Kit



The new Z-420 and Z-419 Tool Kits supersede the Z-400 Tool Kit previously outlined in Bulletin #121. Certain changes have been made in the tools and the variety has been increased.

The individual tools are listed below together with its cost if ordered individually. Where an asterisk is shown this indicates that that particular tool is included in the Deluxe Kit only. Items not so indicated are common to both kits.

The Standard Kit, Z-419 sells for \$26.65.

The Deluxe Kit, Z-420 sells for \$49.95.

Illustration Number	Part Number	Tool Description	Prices
1	Z-421	3/8" Square Drive Handle	2.05
2	Z-422	7/16" Socket	.41
3	Z-424	5/16" Hex Key Adaptor	1.00
4	Z-425	3/8" Nut Driver	1.15
5	Z-426	5/16" Nut Driver	1.00
6	Z-427	1/4" Nut Driver	1.00
7	Z-428	Large Utility Pliers	2.54
8	*Z-429	Magnetic Screwdriver Set	3.72
9	Z-430	4" Screwdriver	.85
10	Z-431	2-1/2" Screwdriver	.75
11	Z-432	#2 Phillips Screwdriver	.51
12	Z-434	#1 Phillips Screwdriver	.42
13	Z-435	#2 Phillips Stubby Screwdriver	.47
14	*Z-436	Patchet Offset Phillips Screwdriver	1.36
15	Z-440	3/16" Hex Key - Long	.11
16	Z-447	.050" Hex Key Wrench	1.02
17	Z-446	1/16" Hex Key Wrench	1.02
18	Z-445	5/64" Hex Key Wrench	1.02
19	Z-444	3/32" Hex Key Wrench	1.02
20	Z-443	1/8" Hex Key Wrench	1.02
21	Z-440	6" Long Nose Pliers	2.07
22	Z-441	4" Diagonal Wire Cutting Pliers	2.08
23	Z-439	1/4" Combination Wrench	1.05
24	Z-438	5/16" Combination Wrench	1.36
25	Z-437	3/8" Combination Wrench	1.43
26	Z-423	5/32" Hex Key Adaptor	1.05
27	*Z-449	Inspection Mirror	1.66
28	Z-450	Pocket Screwdriver	.38
29	Z-451	6" Steel Pocket Rule	.50
30	Z-452	Contact Burnisher	.25
31	*Z-453	Peeler Gauge Set	4.19
32	*Z-442	Contact Forming Pliers	8.12
33	Z-445	3/16" Punch	.50
34	Z-454	1/8" Punch	.50
35	Z-456	4 oz. Ball Pein Hammer	1.40
36	*Z-457	Soldering Iron Handle	1.00
37	*Z-458	Soldering Iron Element - High Heat	1.20
38	*Z-460	Soldering Iron Tip - Straight	.16
39	*Z-461	Soldering Iron Tip - Offset	.16
40	*Z-459	Soldering Iron Element - Low Heat	1.00
41	*Z-462	Tool Box (Not Shown)	3.85



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

September 4, 1957

BULLETIN NO. 151

TO: All Distributors

SUBJECT: F-3922 Touch-Up Kit for Brushing

Small scratches in the exterior painted surfaces of the Model "H" Phonograph cabinets can easily be touched up by the use of a small brush, the proper color lacquer, and a small amount of gold flitter. Small scratches on the black or pink painted interior surfaces may be touched up with the proper color lacquer and a small brush.

To repair small scratches on the outside of the cabinet, it is not necessary to remove the Relvar from the damaged area; however, it should be roughed with sandpaper to improve adhesion to the damaged area. Apply the proper colored lacquer with a paint brush, cloth or sponge. Do not smooth out. The application must be such as to leave a rough surface to match the surrounding area. While the paint is wet, blow a small amount of gold flitter from a paper so as to match the surrounding area.

The lacquer contains an additive which causes it to have a gloss when it dries. Thus, it will match the Relvar coated area in appearance without the application of Relvar.

The F-3922 Touch-Up Kit contains three brushes and two, ounce bottles of the following lacquers and gold flitter.

F-2926	Yellow Tint
F-3919	Black
F-3920	Pink Primer
F-3921	Black Primer (Interior)
F-2928	Gold Flitter
F-1960	1/2" Flat Brush - General purpose brush for dusting, etc.
F-1961	#0 Red Sable Brush - For spotting
F-1962	#4 Camel's Hair Brush - For spotting

If necessary, the fabric on the cabinet fronts may be repaired as follows:

Place a piece of material over the damaged area in such a way that the Mirror-disc pattern is closely matched. Place a thumbtack at each corner of this material, so it will be held securely, and cut through both layers of fabric with a sharp knife or scalpel so that all of the damaged area is enclosed. (In cutting, use a straight edge and follow the lines formed by the edges of the discs, both horizontally and diagonally.)

Lift one corner of the damaged area with a knife blade and pull the material off. Wash away the adhesive left on the wood with a wet cloth.

Apply a coat of Arabol GRB-5 leather adhesive to the wood and insert the section of new material which was cut out at the time the damaged area was removed. Remove excessive adhesive with a wet cloth and wipe the patch with a dry cloth, making sure that no wrinkles develop.

The Vicrtex fabric (two colors) is available by the yard from the Service Parts Department. The adhesive is also available in 1/2 pint containers.

It is suggested that distributing offices stock a quantity of one yard of each color fabric plus a small quantity of adhesive.

APPLICATIONS ENGINEERING

KHH/hr



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

September 4, 1957

BULLETIN NO. 152

TO: All Distributing Office Service Personnel
SUBJECT: Mechanism Trim Interfering with Turntable

Reports from various parts of the country have indicated that in some instances the plastic mechanism trim on the Model "H" has curled upward to the extent that the rim of the turntable rubs against it. If you should encounter this, the following procedure will remedy the situation quite easily without grinding or filing out the opening as has been done in some cases.

1. Loosen the screws holding the left-hand end of the chrome trim to the plastic and mounting bracket. The screws which hold the plastic trim piece to the two small support posts should be left tight.
2. From the left side of the machine, grasp the rear support with the left hand and place the right hand on the front corner of the plastic trim.
3. Pull with the left hand and push with the right hand so that the unsupported tip of the plastic trim will be rotated away from the turntable. Use enough force to bend the support posts just enough to keep the trim from springing back under the edge of the turntable.
4. Flex the tip of the trim upward to see that it will clear the edge of the turntable and tighten the two screws previously loosened.

The same method can be used on the right hand trim if necessary.

CLB/hr

APPLICATIONS ENGINEERING



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

September 6, 1957

BULLETIN NO. 153

TO: All Distributing Office Service Personnel

SUBJECT: New G.E. Variable Reluctance Cartridge

General Electric has discontinued manufacturing the F-3755 and F-3757 Cartridge. Rather than compromise the quality of our sound system by using other types of cartridges, we have adopted General Electric's new variable reluctance cartridge which, while physically different from the old unit, will fit in all Model "F", "G", and "H" Phonographs.

The old cartridge has long been recognized for its excellence by the audio industry. The new one is even better. It is superior in transient response and frequency response. Its higher compliance and excellent tracking characteristics will mean even less record wear than was experienced with the old unit.

The styli of the two cartridges will not be interchangeable but replacement styli will still be available for the older models.

Part numbers for the new units are as follows:

Cartridge with 45 RPM sapphire stylus	F-6158
Cartridge with 78 RPM sapphire stylus	F-6164
45 RPM replacement stylus diamond	F-6167
45 RPM replacement stylus sapphire	F-6165
78 RPM replacement stylus diamond	F-6168
78 RPM replacement stylus sapphire	F-6166

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

September 30, 1957

BULLETIN NO. 154

TO: All Distributing Office Service Personnel

SUBJECT: Color Code for G.E. Replacement Styli

Due to its very small size, it is difficult at times to properly identify the size and type of a replacement styli for the G.E. variable reluctance cartridges.

All styli have an identifying color on the tip of the metal bar above the jewel and can be recognized as follows:

Black	-	1 mil (45 RPM)	Diamond
Red	-	1 mil (45 RPM)	Sapphire
Purple	-	3 mil (78 RPM)	Diamond
Uncolored	-	3 mil (78 RPM)	Sapphire

APPLICATIONS ENGINEERING

CLB/hr



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

November 8, 1957

BULLETIN NO. 155

TO: All Distributing Office Service Personnel

SUBJECT: Model "H" Credit & Selection System Part Number Changes

Since the original printing of the Parts Catalog for the Model "H" Credit & Selection System in April, 1957, there has been an accumulation of part number changes. The more important of these are listed below.

<u>Old Part No.</u>	<u>New Part No.</u>	<u>Part Name</u>	<u>Manual Page</u>
L-1275	L-1362	Credit Unit & Mtg. Plate Assembly	1. Contents 2. 1st Illustration 3. Plate #3 Parts List
L-1373	L-1383	Credit Unit & Mtg. Plate Assembly	1. Contents 2. 1st Illustration 3. Plate #4
F-5189	F-3780	Switch Actuator Hndt.	Plate #1
"	F-2998	Actuator Assembly	Plate #1
S-2133-G	S-2133-G	Insulated Tubing	Plate #2
F-5513	F-6111	Tension Spring	Plate #3 & #4
F-3625	F-6118	Solenoid Assembly	Plate #3 & #4
F-5214			
or	F-6185	Plunger & Tip Assembly	Plate #3 & #4
F-6119			
F-5412	F-6174	Wiper Arm	Plate #3 & #4
F-5506	F-6175	Wiper Arm Assembly	Plate #3 & #4
H-1293	H-1861	Mtg. Plate Assembly	Plate #3
H-1798	H-1862	Mtg. Plate Assembly	Plate #4

* The following parts are used in making up assembly F-2998:

F-3779 (2)	F-5189
F-3780	F-5856
F-3783	S-1211-W

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APPLICATIONS ENGINEERING



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE S. E. • GRAND RAPIDS 2, MICHIGAN

December 5, 1957

BULLETIN NO. 156

TO: All Distributing Office Service Personnel

SUBJECT: Ground Strap on F-6158 Cartridge

The F-6158 Cartridge (General Electric No. VR II) has a ground strap which is an extension of the bottom cover of the cartridge. This ground strap is formed in such a way as to make contact with one of the cartridge terminals.

We have discovered that by removing this little strap, hum and noise pick-up in our phonographs is reduced. The strap may be easily removed by bending by hand.

We are now removing this strap before assembly into phonographs and recommend that the same be done in the field on replacement cartridges.

APPLICATIONS ENGINEERING

KHH/hr



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE. S. E. • GRAND RAPIDS 2, MICHIGAN

December 5, 1957

BULLETIN NO. 157

TO: All Distributing Office Service Personnel

SUBJECT: Cleaning Pushbutton Keys

Do not use carbon tetrachloride to clean the polystyrene pushbutton keys. Carbon tetrachloride is a mild solvent for the material and will weld the keys together.

Water, with a small amount of dish-washing detergent, will remove both grease and the sticky residue left by soft drinks, beer, etc.

APPLICATIONS ENGINEERING

CLB/hr



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

January 3, 1958

BULLETIN NO. 158

TO: All Distributing Office Service Personnel

SUBJECT: Adjustment of F-3465 Reset Switch

The record changer service manual describes the proper positioning of the reset switches as follows:

"The switch must open .010 inch when the reset lever is pushed manually at the solenoid end until the tip of the lever touches the face of the pin wheel."

If the lever is pulled against the pin wheel from the outer end of the lever, these same conditions will not be met. In this case the contact gap will be less than .010 or may not open at all.

If the switch blades need adjustment, the individual blades may be bent to meet the following conditions.

1. The long blade must bear against the short blade with a force of 10 to 30 grams.
2. When the long blade is held away from the short blade, the short blade must bear against the stiffener blade with a force of 30 to 50 grams.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

January 6, 1958

BULLETIN NO. 159

TO: All Distributing Office Service Personnel

SUBJECT: Burning of Segments on F-5515 Switch Circuit Assembly

In order to eliminate arcing between the credit switch segments of the credit unit commutator plate and the wiper blades when the credit unit is set up to operate on five-cent play, the following procedure is recommended:

Connect the large (center) "ten-cent" credit switch segment to the "fifteen-cent or more" segment (large outside segment). This connection may be conveniently made by placing a jumper between terminals 8 and 9 of the ten-prong Jones plug.

This remedy may be used only when no extended play selections are being offered at a premium price.

The arcing does not occur when price combinations are used which do not involve "five-cent" play.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

February 6, 1958

BULLETIN NO. 160

TO: All Distributing Office Service Personnel

SUBJECT: Four-Coin System for the JBI-120

The JBI-120 Phonograph can be converted to 50¢, four-coin operation by installing an L-1281 Four-Coin Slug Rejector. The chart in the Model "H" Credit and Selection System Service Manual can be used to set up the desired price combination.

To accommodate the four-coin rejector, a few parts must be removed from the phonograph.

1. Remove the F-6304 Coin Slot Bracket. This is the bracket that restricts the coin slot so that a half-dollar cannot be inserted. It is held in place by the right-hand lamp socket mounting screw.
2. Remove the L-277 Three-Coin Rejector.
3. Remove the F-6577 Actuating Lever. This is the last section of the slug rejector scavenger lever system and is held in place with a retaining ring.
4. Unlatch the F-6650 Rejector Mount and remove the F-6578 Guide Bracket from it.
5. Replace the F-6650 Rejector Mount and install the L-1281 Rejector.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

February 6, 1958

SERVICE BULLETIN #161

TO: All Distributing Offices Service Personnel

SUBJECT: PT-44 - Kit For Adapting Model "I" Manual Selection
Phonographs to 50¢ Operation

The PT-44 50¢ bonus kit makes it possible to obtain flexible 50¢ operation on the I-100 Manual and I-200 Manual phonographs. This kit consists of one PH-7 50¢ Bonus Unit and one L-1281 four-coin rejector.

The bonus unit is designed to mount on the mechanism shelf, between the two lighting sockets. The phonograph harness plugs into the PH-7 and the PH-7 plugs into the credit unit. One wire with a spade lug connects to the 50¢ terminal on the coin switch terminal strip.

In operation the number of plays provided will be twice the number given for a quarter plus one bonus play for a half dollar.

The price of play combination chart on page 13 of the Model H-100 Credit and Selection System Service Manual should be used to set up the desired pricing system.

Service Bulletin #160 gives instructions for installing L-1281 rejectors in Model "I" phonographs.

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APPLICATIONS ENGINEERING



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

February 20, 1958

BULLETIN NO. 162

TO: All Distributing Office Service Personnel

SUBJECT: Dual Price of Play Conversion Kits for I-120 and I-200
Electrical Phonographs

This will announce the availability of three conversion kits for use in converting the I-120 or the I-200 Electrical Phonographs to dual price of play.

Each kit contains one PF-26 Switch Assembly (E.P.), one F-2998 Actuator Assembly (E.P. Switch), a sheet of instructions and the proper E.P. price strip assemblies. The price cards must be ordered independently of the kits. The available price cards are listed by part numbers in Bulletin No. 163.

Kit Number PF-28 is used to convert to dual price of play in which 15¢ is charged for one extended play selection. It can be used for converting to the price of play called for on price of play cards PF-14, PF-18, PF-4, etc.

Kit Number PF-27 is used to convert to dual price of play in which 10¢ is charged for one extended play selection. It can be used for converting to the price of play called for on price of play cards PF-17, PF-2, PF-6, etc.

Kit Number PF-29 is used to convert to dual price of play in which 20¢ is charged for one extended play selection. It can be used for converting to the price of play called for on price of play card PF-13, etc.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

February 20, 1958

BULLETIN NO. 163

TO: All Distributing Office Service Personnel

SUBJECT: Model "I" Price of Play Combinations and Price of Play Cards

The following optional price of play cards are now available.

DUAL PRICE COMBINATIONS

4-Coin

<u>PF-14</u>	<u>PF-18</u>	<u>PF-15</u>	<u>PF-2</u>
Standard	Standard	Standard	Standard
Dime or 2 Nickels 1	Dime or 2 Nickels 1	Nickel 1	Nickel 1
Quarter 3	Quarter 3	Dime 2	Dime 2
Half 6	Half 7	Quarter 6	Quarter 6
		Half 12	Half 13
E.P.	E.P.	E.P.	E.P.
15¢ 1	15¢ 1	10¢ 1	10¢ 1
Quarter 2	Quarter 2	Quarter 3	Quarter 3
Half 4	Half 5	Half 6	Half 7

3-Coin

<u>PF-4</u>	<u>PF-13</u>	<u>PF-6</u>
Standard	Standard	Standard
Dime or 2 Nickels 1	Dime or 2 Nickels 1	Nickel 1
Quarter 3	Quarter 4	Dime 2
		Quarter 6
E.P.	E.P.	E.P.
15¢ 1	20¢ 1	10¢ 1
Quarter 2	Quarter 2	Quarter 3

ACCUMULATIVE4-CoinPF-3

Dime or 2 Nickels	1
Quarter	3
Half	6

F-6614

Dime or 2 Nickels	1
Quarter	3
Half	7

PF-11

Dime or 2 Nickels	1
Quarter	4
Half	8

PF-12

Dime or 2 Nickels	1
Quarter	4
Half	9

PF-7

Nickel	1
Dime	2
Quarter	5
Half	11

PF-10

Nickel	1
Dime	2
Quarter	6
Half	12

PF-1

Nickel	1
Dime	2
Quarter	6
Half	13

PF-19

Dime	1
Quarter	5
Half	11

ACCUMULATIVE3-CoinF-6615

Dime or 2 Nickels	1
Quarter	3

PF-8

Dime or 2 Nickels	1
Quarter	4

PF-9

Nickel	1
Dime	2
Quarter	5

PF-5

Nickel	1
Dime	2
Quarter	6

PF-17

Dime	1
Quarter	5

The I-200-E phonograph may be set for any combination listed under "accumulative 4-coin". By installing a conversion kit as listed in Bulletin #162, the I-200-E may be set for any combination listed under "dual price combination 4-coin".

The I-120 phonograph may be set for any combination listed under "accumulative 3-coin" and by installing a conversion kit per Bulletin #162, it may be set for any combination listed under "dual price combination 3-coin". If desired, a 4-coin rejector may be installed and the phonograph then can be set for the 4-coin combinations. (See Bulletin #160)

The I-100 and I-200 Manual phonographs may be set for any combination listed under "accumulative 3-coin". By adding the PF-44 Kit per Bulletin #161, these phonographs may be set on the following combinations listed under "accumulative 4-coin":

F-6614, PF-12, PF-7, PF-13, and PF-19

If there is sufficient demand for additional combinations, they will be made available.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

March 12, 1958

BULLETIN NO. 164
(Model "I")

TO: All Distributing Office Service Personnel

SUBJECT: Interchangeability of Credit Units

Complete interchangeability of credit units on machines with electrical selector systems - Model "G-200" through "I" - can be had with an easy modification. Install a jumper wire between pin #4 on the four-prong plug and pin #3 on the ten-prong plug on those credit units that do not have the credit pushbutton mounted on the frame.

The Model "G-200" requires this jumper but the "H" and "I" do not. The jumper will not affect the operation of the "H" or "I" at all.

If an operator's "spare" credit unit has this jumper, he will be able to use it on any electrical selector machine.

APPLICATIONS ENGINEERING

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Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

March 12, 1958

BULLETIN NO. 165
(Model "I")

TO: All Distributing Office Service Personnel

SUBJECT: Model "I" Title Rack Latches

We have received several requests for information on installing Model "I" title rack latches on the Model "H".

This modification is not satisfactory. Installing the latches and associated hardware on a Model "H" will change the angle of the title rack assembly so that it will not be compatible with the interior window trim and the mechanism trim.

APPLICATIONS ENGINEERING

CLB/hr



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

May 27, 1958

BULLETIN NO. 166
(Model "I")

TO: All Distributing Office Service Personnel

SUBJECT: Credit & Selection System Fuse

The 8/10 ampere, Slo-Blo fuse in the credit and selection system circuit has been changed to a one ampere, Slo-Blo fuse.

It will be safe to use one ampere, Slo-Blo fuses in both the credit and selection system circuit and the mechanism circuit on all machines from the G-200 to the present.

Do not use anything larger than 8/10 ampere fuses on earlier machines.

APPLICATIONS ENGINEERING

CIB/hr



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

June 2, 1958

BULLETIN NO. 167

TO: All Distributing Office Service Personnel

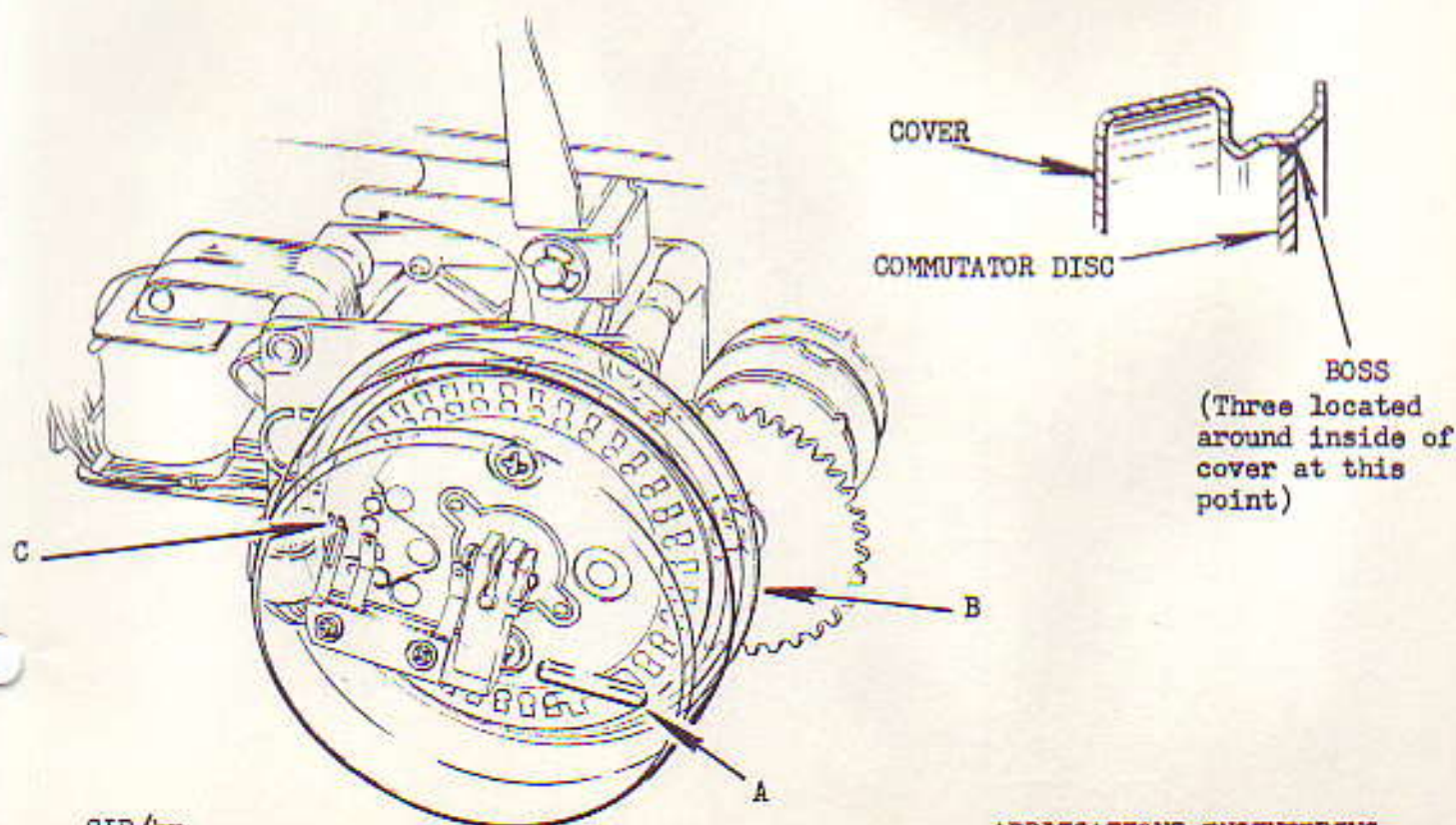
SUBJECT: H-2387 Dust Cover for Pulse Generator

Model "I" electrical machines are now being furnished with the H-2387 Dust Cover installed on the commutator of the pulse generator.

A little care should be used in removing and installing this cover. The cover has a raised pointer, A, on its top surface to facilitate proper installation and removal. To remove the cover, lift up on the "skirt", B, of the cover at the spot nearest the pointer. The cover will snap off easily.

To reinstall the cover, turn it until the pointer is directly away from the wiper blade tips, C. Hold the pointer side high and slip the opposite side into place, with the lip under the end of the wiper arm. Don't force this side of the cover down too low, just engage the two bosses on the edge of the fiber commutator disc. Next, press down on the "skirt" where indicated by the pointer.

Don't jerk the cover off. You may snag the ends of the wiper blades. Don't jam it into place. You may push it on so far it interferes with the wiper arm.





Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

June 10, 1958

BULLETIN NO. 168
(Model "I")

TO: All Distributing Office Service Personnel

SUBJECT: New Number Strips for Model "I" Title Racks

The background color of the number strips on all Model "I" title racks is being changed from silver to white. This will improve the legibility of the letters and numbers.

When replacement title racks are ordered, the color - silver or white - should be specified along with the part numbers of the racks desired.

APPLICATIONS ENGINEERING

KFN/hr



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

October 23, 1958

BULLETIN NO. 169

SUBJECT: PF-58 Replacement Inner Shoes for Model 700 & 800 Mechanisms

This is to call your attention to the fact that replacement inner shoes for Model 700 and 800 Mechanisms now have grippers made of nylon instead of cast metal.

These new inner shoes are Part Number PF-58.

APPLICATIONS ENGINEERING

CLB/hr



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE. S. E. • GRAND RAPIDS 2, MICHIGAN

October 23, 1958

BULLETIN NO. 170

SUBJECT: PF-59 AVC Adaptor Kit for Early R-145 Amplifiers

We have had several requests for information and parts required to use the latest type AVC unit with R-145 Amplifiers that do not have built-in AVC sockets.

These parts and complete instructions can now be obtained by ordering Kit #PF-59.

APPLICATIONS ENGINEERING

CLB/hr



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

November 12, 1958

BULLETIN NO. 171

(Model "I")

SUBJECT: Model "I" Cabinets & Components Parts Catalog - Supplementary Information

During the last week in September, the method of mounting the amplifier in all Model "I" cabinets was changed.

The enclosed supplementary information sheet illustrates the new mounting and the new parts. Fasten this sheet inside the back cover of your "Model I Cabinets & Components Parts Catalog" to make your catalog complete.

If you want more copies of this sheet, write to the Technical Publications Department.

APPLICATIONS ENGINEERING

CLB/hr



Service Bulletin

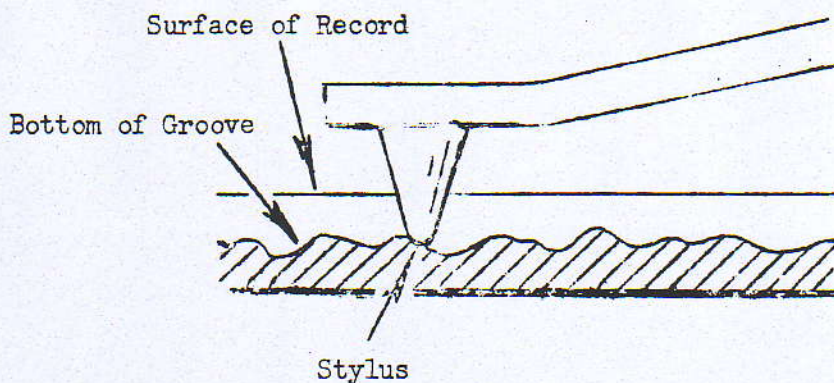
AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

November 21, 1958

BULLETIN NO. 172
(Model "I")

SUBJECT: Care of Stereo Records

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.

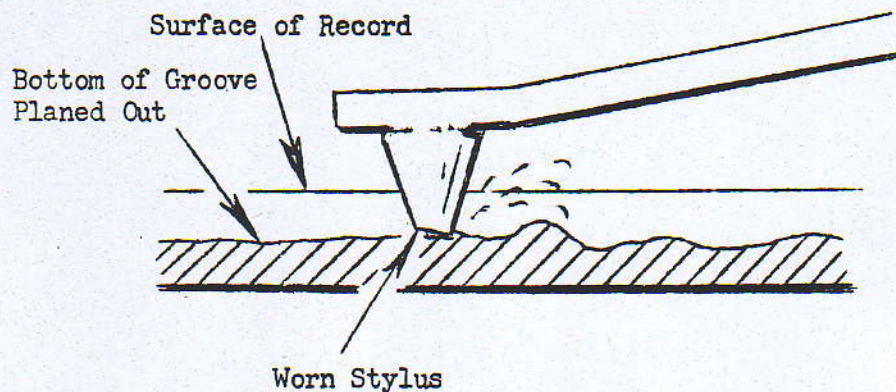


Part of the information required for stereophonic reproduction is recorded in these up and down movements of the record groove.

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.

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 pick-up and recommend that replacement styli have diamond tips. If sapphire styli are used for stereo machines, they should be replaced much more frequently than on monaural machines.

APPLICATIONS ENGINEERING

CLB/mal



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE. S. E. • GRAND RAPIDS 2, MICHIGAN

February 18, 1959

BULLETIN NO. 173
(Model "J")

SUBJECT: Model "J" Pushbutton Maintenance

The pushbuttons on Model "J" phonographs are made from acrylic plastic that will resist ordinary cleaning methods. There are, however, certain chemicals commonly found in most shops that can soften the plastic or cause it to craze.

Do not use: Acetone, alcohol, benzene, carbon tetrachloride, gasoline, glass window sprays, lacquer thinners, lighter fluid.

To clean the pushbuttons, wash with soap and water using a soft cloth. Dry them with a clean damp cloth. Rubbing with a dry cloth builds up a static charge that attracts dust. Oil or grease on the pushbuttons can be removed with a cloth wet with kerosene or hexane.

After removing dirt and grease from the buttons, wax them with a good grade of commercial wax. The wax will fill in minor scratches and help prevent further scratching.

The following cleaners and waxes are recommended.

Cleaners

Parko Gloss Polish & Cleaner #4B-L
Wilco Scratch Removing Compound #55
O-Cedar of Canada M-37 Plastic Cleaner
Ken-Glo
Autogroom Cleaner
McAlear Plexi-I-Glo Cleaner & Polish

Turco L-567 Cleaner
Noxon Cleaner Polish
Franklin's Plexiglas Cleaner
Puritan's Plasti-Kleen
Lincoln M-3828 Liquid Cleaner
Simoniz Liquid Kleener

Waxes

Permaseal
Triple Life Wax & Paint Protection
Simoniz Wax
Duco #7 Wax

Franklin's Plexiglas Wax
3M Auto Wax
Parko Eze-Wax
Johnson's Industrial Wax #102-C

APPLICATIONS ENGINEERING

CLB/hr



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

March 21, 1959

BULLETIN NO. 174

SUBJECT: Model "J" Program Classifiers

Proper programming of a juke box makes it easier for the customer to locate the type of music he wants and thus speeds up play and increases the operator's profit.

We have provided 13 different program classifiers in the form of red plastic strips with raised, silver lettering. These strips snap into the aluminum channels at the top or bottom of the title racks. See illustration, second page of this bulletin.

Each machine is shipped with a set of classifier strips as shown and listed at "A" in the illustration. These are packed in the large envelope containing the turntable disc and the operator's warranty card.

In addition, stereo electrical-selection machines are shipped with the group as shown at "B" (including the F-7643 Clip, also marked "B" at upper right side of illustration).

Manual-selective stereo machines do not have the F-7569 "extended play" classifier and substitute F-7681, "stereo records 10¢" price strip, "C", in place of the F-7370.

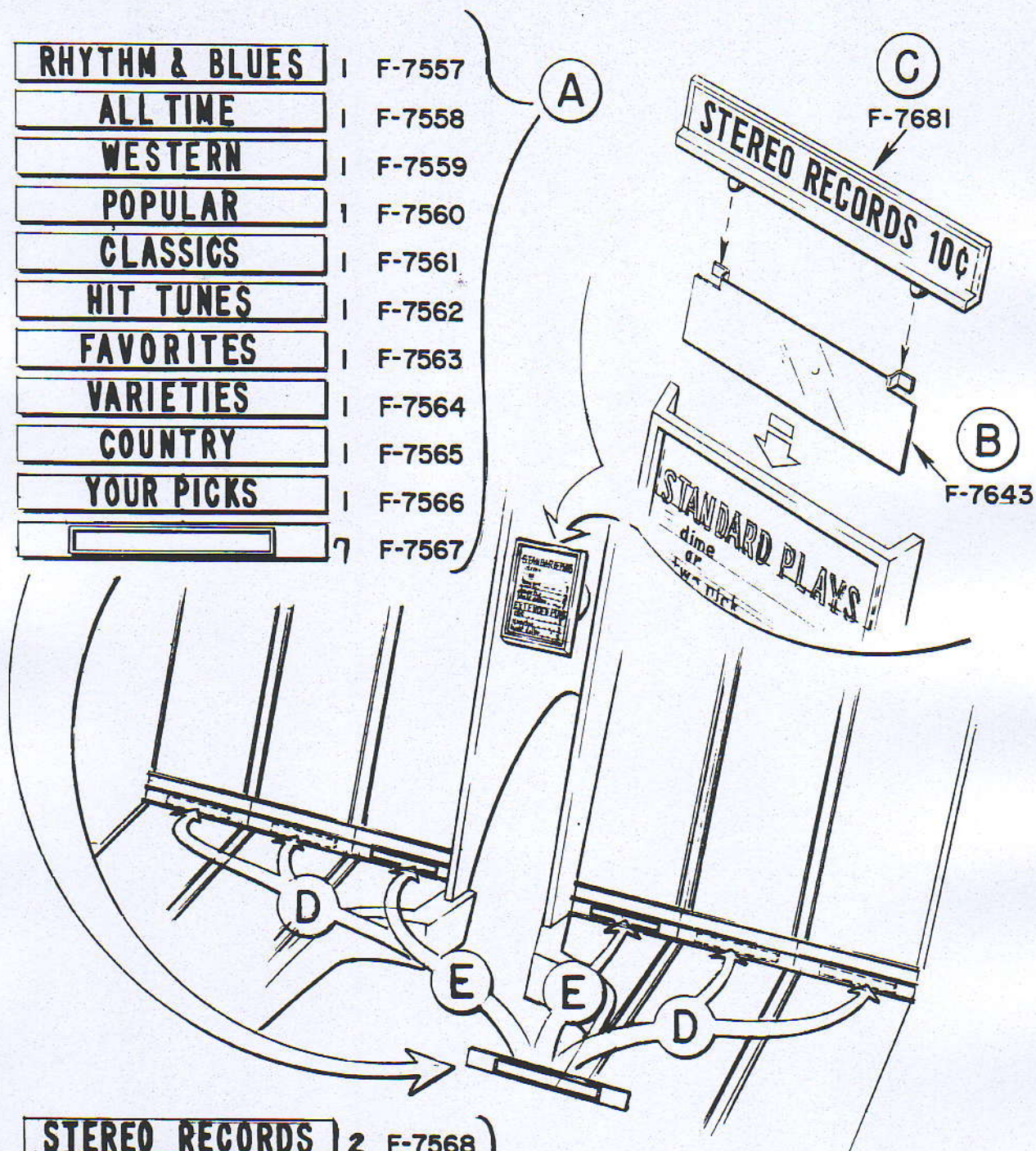
Each 120-selection machine requires 6 of the F-7567 strips (blanks) to fill the channels where there are no title racks. See "D" and "E". 200-selection machines require only two. See "E" only.

The price strips (F-7370 and F-7681) plug into the F-7643 Clip, "B", which slides into the top of the price card holder as shown.

APPLICATIONS ENGINEERING

March 21, 1959

RHYTHM & BLUES		F-7557
ALL TIME		F-7558
WESTERN		F-7559
POPULAR		F-7560
CLASSICS		F-7561
HIT TUNES		F-7562
FAVORITES		F-7563
VARIETIES		F-7564
COUNTRY		F-7565
YOUR PICKS		F-7566
		F-7567



STEREO RECORDS	2	F-7568
EXTENDED PLAY	2	F-7569
STEREO RECORDS 15¢	1	F-7370



Service Bulletin

AMI INCORPORATED • 1500 UNION AVENUE, S. E. • GRAND RAPIDS 2, MICHIGAN

April 15, 1959

BULLETIN NO. 175

SUBJECT: Replacement Turntable Motors

Turntable motors used on machines prior to the late Model "I's" have been discontinued by our suppliers. Exact replacement motors and parts are no longer available for some models.

The H-1836 Motor used on late Model "I's" and on the Model "J" is mounted onto the turntable bearing plate with snap rings instead of screws. These motors will not fit the standard bearing plates on earlier models.

Special bearing plates have been made to adapt the H-1836 Motor to earlier machines. These will be supplied at no extra cost when motors are ordered for the early models.

Since there are slight differences from model to model, one adaptor plate cannot accommodate all. Therefore it is very important to specify the model of the machine the turntable motor is to be used on when replacements are ordered.

APPLICATIONS ENGINEERING

CLE/mal

SERVICE BULLETIN

AUTOMATIC MUSIC, INC.

1500 UNION AVENUE, S. E., GRAND RAPIDS 2, MICHIGAN • TELEPHONE CHERRY 3-3633



November 18, 1959

BULLETIN NO. 176

Model "K"

SUBJECT: Adjustments for the Model "K" Record Changer

The new AC transfer motor and new camshaft switches used on Model "K" record changers make new adjustment techniques necessary. The following procedures will make the adjustments easy.

Before adjusting any camshaft switch, make sure the transfer motor is in the right position. Check as follows.

With the gripper bow over the turntable, turn the camshaft until the crank on the transfer motor and the sector gear link are in line.

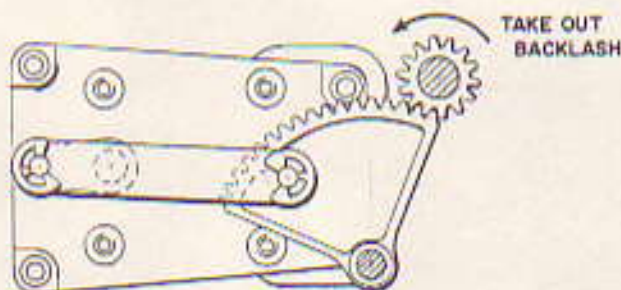


FIG. 1

The tone arm cam and the cam follower plate should be in the relationship shown in Figure 2.

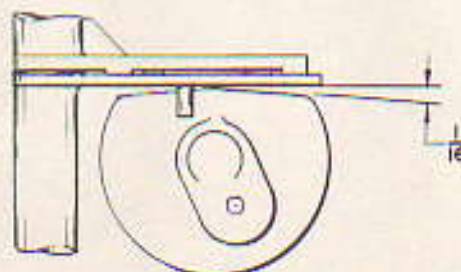


FIG. 2

SINCE 1899 DESIGNERS, ENGINEERS AND MANUFACTURERS OF AUTOMATIC MUSICAL INSTRUMENTS FOR BUSINESS AND INDUSTRY

APPLICATE OF *AUTOMATIC*
CANTEN COMPANY OF AMERICA

Slide the transfer motor forward or backward until the cam is in the position shown. Make a selection and check the cam. Make sure the gripper shoes are fully retracted at both extremes of the transfer cycle. If the shoes are not fully retracted when the gripper bow is over the record magazine, shift the transfer motor slightly to the rear. Make sure the motor mounting screws and the set screw in the driven gear are tight. With the gripper bow over the record magazine, turn the camshaft until the crank on the transfer motor shaft and the sector gear link form a straight line.

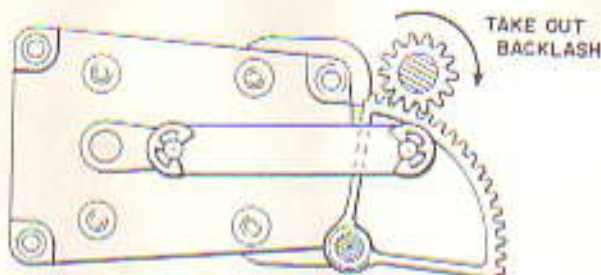


FIG. 3

Unplug the transfer motor. Back out all camshaft switch adjusting screws several turns. Trip the scan control.

Turn #1 screw in slowly until the turntable stops and then turn the screw in exactly one turn more.

Turn #2 screw in slowly until the record magazine motor starts and then turn the screw in exactly one turn more.

Plug a test light - a service light or the light on a soldering gun will do - into the "transfer motor" socket. Turn screw #3 in until the light goes out and then turn it in exactly $3/4$ turn more.

Trip the even stopping switch. Turn #4 screw in slowly until the toggle shifts and then turn the screw in one turn more.

Release the even stopping switch and trip the odd stopping switch. Turn screw #5 in slowly until the toggle shifts and then turn the screw in one turn more.

With the gripper bow over the turntable, turn the camshaft until the crank on the transfer motor and the sector gear link are in line. (See Figure 1)

Trip either stopping switch and turn #6 screw in slowly until the reset solenoid operates. Then turn the screw in one turn more.

Remove the test light and plug in the transfer motor.

SERVICE BULLETIN

AUTOMATIC MUSIC, INC.

1500 UNION AVENUE, S. E., GRAND RAPIDS 2, MICHIGAN • TELEPHONE CHERRY 3-3633



January 22, 1960

BULLETIN NO. 177

Model "K"

SUBJECT: Amplifier Tubes

The tube originally designated 12AX7 is now produced in three versions: 12AX7, ECC83, and 7025. All have the same general characteristics and circuit connections.

The 12AX7 is a standard general-purpose tube. The ECC83 and 7025 are high quality tubes built to more rigid specifications than the 12AX7. The ECC83 is of European manufacture while the 7025 is made by RCA.

The European tubes are usually marked "ECC83/12AX7". This means that the tube is an ECC83 but it can be used in applications calling for a 12AX7.

Any circuit that specifies a 12AX7 can use a 7025 or an ECC83. 7025's and ECC83's can be used in circuits calling for either type. 12AX7's should not be used where the 7025 or ECC83 is specified.

The input stage of our new amplifier requires a 7025 or an ECC83. All other stages can use general purpose tubes. In practice, we use ECC83's throughout.

For replacement purposes, ordinary 12AX7's can be used in those sockets marked "ECC83/12AX7". The input stages - the shielded tubes - must have ECC83's or 7025's.

APPLICATIONS ENGINEERING

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SERVICE BULLETIN

AUTOMATIC MUSIC, INC.

1500 UNION AVENUE, S. E., GRAND RAPIDS 2, MICHIGAN • TELEPHONE CHERRY 3-3633



January 21, 1960

BULLETIN NO. 178

Model "K"

SUBJECT: Color Code for Molded Tubular Capacitors

One of our major suppliers of capacitors, Sprague Products Company, is now furnishing molded tubular capacitors identified by colored bands instead of printed values. Other manufacturers may well follow Sprague's lead.

Because of this trend, we have prepared the enclosed chart which explains the color code used for molded tubular capacitors. This system does not apply to other types of capacitors.

APPLICATIONS ENGINEERING

CLB/hr
Attach.

COLOR	FIRST NUMBER 1st BAND	SECOND NUMBER 2nd BAND	MULTIPLIER		TOLERANCE 4th BAND	VOLTAGE RATING		COLOR
			(MMFD)	3rd BAND (MFD)		5th BAND	6th BAND	
No Band	—	—	—	—	—	—	00	No Band
Black	—	0	—	—	±20%	—	—	Black
Brown	1	1	XX0	.000XX	—	1	100	Brown
Red	2	2	X,X00	.00XX	—	2	200	Red
Orange	3	3	XX,000	.0XX	±30%	3	300	Orange
Yellow	4	4	XX0,000	.XX	±40%	4	400	Yellow
Green	5	5	X,X00,000	X.X	±5%	5	500	Green
Blue	6	6	—	—	—	6	600	Blue
Violet	7	7	—	—	—	7	700	Violet
Grey	8	8	—	—	—	8	800	Grey
White	9	9	—	—	±10%	9	900	White

Note: Capacitors rated less than 1000 volts have only 5 bands

Example No. 1:	A capacitor has 5 color bands:				Black,	Yellow,	Black,	Blue,	No Band
This means:	—	—	—	—	0	0000 MMFD	± 20%	6	00
or:	—	—	—	—	1	.1MFD	± 20%	600	Volts

Example No. 2: A capacitor has 6 color bands:
This means: — — — — — —
or: — — — — — —

Yellow,	Violet,	Orange,	White,	Brown,	Green
4	7	000 MMFD	±10%	1	500
		.047 MFD	±10%	1.500 Volts	

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SERVICE BULLETIN

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January 21, 1960

BULLETIN NO. 179

Model "K"

SUBJECT: Beryllium Copper Wiper Blades for Pulse Converters

The wiper blades in the pulse converter are now being made from beryllium copper instead of Elkonium.

This change in material produces a stronger longer-wearing blade.

Part numbers for the new blades are:

Letter Stepper Wiper Blade	}	F-8925
Number Stepper Wiper Blade		
Small Blade on Letter Search Wiper Arm		
Number Search Wiper Blade		

Large Blade on Letter Search Wiper Arm	F-3498
--	--------

The F-3499 Elkonium blade will be continued for use in wall box credit units and as a replacement part for Model G, H, I, and J credit units.

Beryllium copper blades should not be used in credit units previous to the Model "K" because their higher spring force will make adjustment difficult.

Be sure to order replacement blades by part number.

APPLICATIONS ENGINEERING

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SERVICE BULLETIN

AUTOMATIC MUSIC, INC.

1500 UNION AVENUE, S. E., GRAND RAPIDS 2, MICHIGAN • TELEPHONE CHERRY 3-3633



January 21, 1960

BULLETIN NO. 180

Model "K"

SUBJECT: H-3333-H Speaker Control

This bulletin announces the H-3333-H Speaker Control. This is a remote volume control for individual remote speakers.

It is intended for use where it is desirable to control one speaker independently of any others in the system.

The control is housed in an attractive case that can be mounted on a wall or under a bar. A fifty foot cable is supplied.

While the H-3333-H is designed as an accessory for AMI cylindrical speakers, it will work with any speaker having an 8 ohm voice coil.


The attached sheet shows how the control may be connected to various types of speakers.

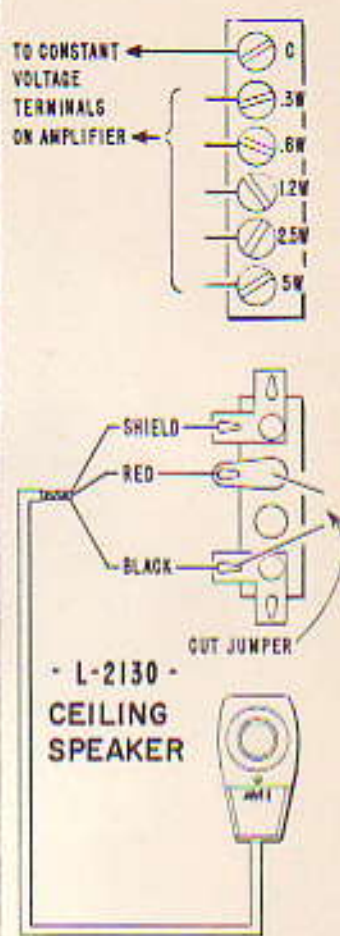
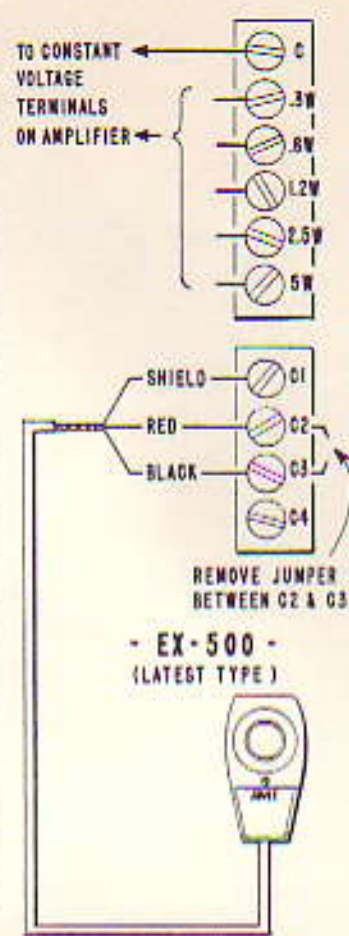
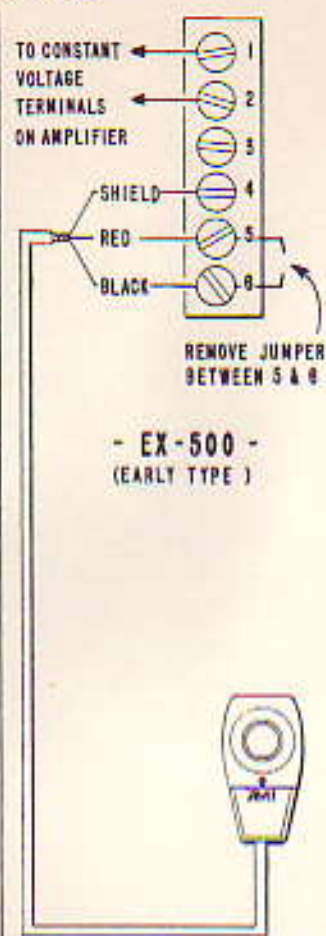
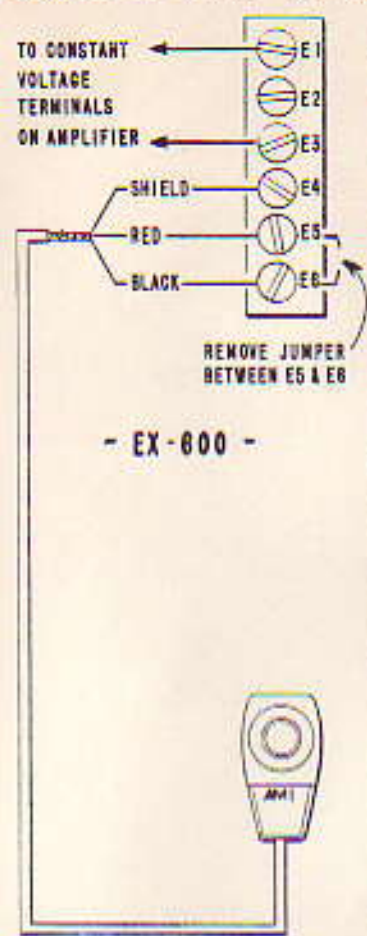
APPLICATIONS ENGINEERING

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Attach.

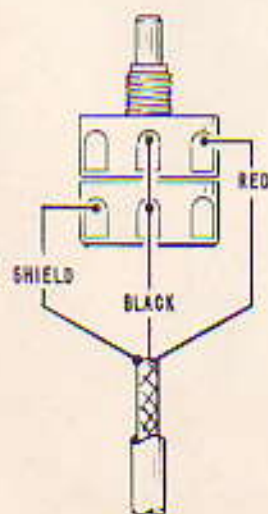
Page 1 of 2

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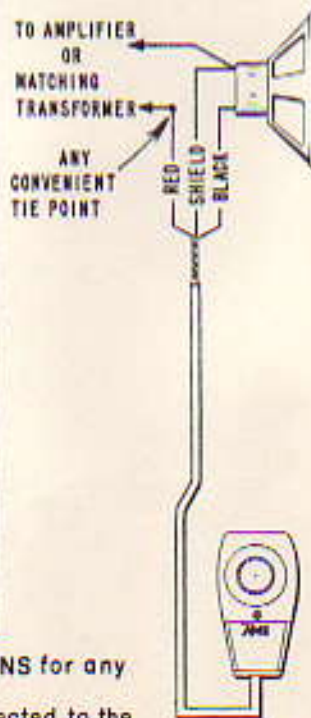
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CANTEEN COMPANY OF AMERICA



When constant voltage speakers are used, set the wattage of each speaker at the highest level that will ever be required in the area the speaker serves. Make sure, however, that the total wattage of *all* speakers connected to a single amplifier does not exceed 20. The wattage setting and the setting of the main volume control will determine the *maximum* loudness of each speaker. The speaker control is used to adjust the loudness of individual speakers as conditions vary.



H-3333-H
SPEAKER CONTROL
(INTERNAL CONNECTIONS)



GENERAL CONNECTIONS for any
eight ohm speaker.
The lines must be connected to the
amplifier at *taps* that will not deliver more than
10 watts to the speaker.



SERVICE BULLETIN

AUTOMATIC MUSIC, INC.

1500 UNION AVENUE, S. E., GRAND RAPIDS 2, MICHIGAN • TELEPHONE CHERRY 3-3633



February 29, 1960

BULLETIN NO. 181

Model "K"

SUBJECT: Instruction Chart for F-7830 Credit Circuit
Board, Plug & Bracket Assembly

When shipped from the factory, all phonographs are set for certain price-of-play combinations which are the most widely used combinations in this country. However, in many cases, these price-of-play combinations are changed to suit local conditions and one primary area in the phonograph where these changes are made is in the location of the small nickel-plated screws in the credit circuit board.

The attached chart has been prepared to help acquaint you with the exact purpose of each portion of this credit circuit board. Each screw in this credit circuit board acts as a switch which, when inserted, serves to connect a portion of a circuit on the front of the board to another portion on the back side of the board.

We believe the chart will be of value to you in understanding exactly what can be accomplished by inserting the screws in the various combinations of holes which are available.

APPLICATIONS ENGINEERING

KHH/hr
Attach.

A screw in hole "3" causes the adjustable electrical credit stop to be energized by the ten cent coin switch.

A screw in hole "4" causes the adjustable electrical credit stop coil to be energized by the twenty-five cent coin switch.

PLUG CLIPS ON THIS SIDE

A screw in hole "1" causes the fixed "one step" electrical credit stop to be energized by the five cent coin switch.

A screw in hole "2" causes the "one step" electrical stop to be energized by the ten cent coin switch.

A screw in hole "9" causes the five cent credit light to be turned on when the credit wheel moves one step from home position.

A screw in hole "10" causes the ten cent credit light to be turned on when the credit wheel moves one step from home position.

A screw in hole "11" causes the ten cent light to go on when the credit unit moves two steps from home position.

A screw in hole "12" causes the "15¢ or more" light to go on when the credit unit moves two steps from home position.

When a single price combination (not dual pricing) is used:

- When giving one play for one credit tooth, screws must be placed in holes "13, 14 and 15 (no screw in hole "16).
- When giving one play for two credit teeth, screws must be placed in holes "14, 15 and 16 (no screw in hole "13).

A screw in hole "5" causes the TWENTY-FIVE CENT COIN SWITCH to energize the main credit solenoid without energizing any electrical stop.

A screw in hole "6" causes the FIFTY CENT COIN SWITCH to energize the main credit solenoid without energizing any electrical stop.

SLUG REJECTOR

25¢ 50¢

Screw should be placed in hole "7" when a price-of-play is used which does not require the use of the PH-26 Fifty Cent Unit.

Screw should be placed in hole "8" when a price-of-play is used which requires a PH-26 Fifty Cent Unit.

DUAL PRICE PLAY

5¢ 10¢ 15¢ 5¢ 10¢ 15¢

A screw in hole "15" connects the "two step" credit ring as the E.P. credit switch. (This makes it possible to make an E.P. selection when the credit unit is two steps from home position.)

A screw in hole "16" connects the "three step" credit ring as the E.P. credit switch. (This makes it necessary for the credit unit to move three steps from home position before an E.P. selection can be made.)

A screw in hole "13" connects the "one step" credit ring as the "standard" credit switch. (This makes it possible to make a "standard priced" selection with the credit wheel one step from home position.)

A screw in hole "14" connects the "two step" credit ring as the "standard" credit switch. (This makes it necessary for the credit unit to be two steps from home position before a "standard priced" selection can be made.)

SERVICE BULLETIN

AUTOMATIC MUSIC, INC.

1500 UNION AVENUE, S. E., GRAND RAPIDS 2, MICHIGAN • TELEPHONE CHERRY 3-3633



June 17, 1960

BULLETIN NO. 182 Model "K"

SUBJECT: R-2017-A and R-2017-B Basic Amplifiers

The basic amplifier used in standard Model "K" Phonographs can not be used as direct replacements in Continental and Lyric Phonographs.

Since the amplifiers are mounted with the 50L tubes horizontal, the sockets must be positioned so that the tubes' filaments will not sag against the plates.

In the standard Model "K", the keyway in the 50L socket must point toward the end of the chassis. In the Continental and Lyric, the keyway must point toward the power transformer.

Amplifiers intended for use in the standard Model "K" are marked R-2017 or R-2017-A. Amplifiers intended for use in the Continental or Lyric are marked R-2017-B.

The stereo preamplifiers, add-on power amplifiers, and monaural pre-amplifiers can be used interchangeably in all machines.

APPLICATIONS ENGINEERING

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AUTOMATIC MUSIC, INC.

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July 6, 1960

BULLETIN NO. 183 Model "K"

SUBJECT: E.P. Switch Actuators

E.P. switch actuators for Continental and Lyric Phonographs are assembled and mounted differently than on standard Model "K's".

On the Continental and Lyric, the actuator must be mounted on the right-hand end (as viewed from the front of the machine) of the letter push-button bank and the switch operating tab must be on the right-hand end of the actuator.

When ordering E.P. actuators, specify part number F-7742-C for standard Model "K's" and F-7742-D for Continentals and Lyrics.

Either version of the actuators can be readily changed to the other by moving the switch operating tab and associated bracket.

APPLICATIONS ENGINEERING

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July 6, 1960

BULLETIN NO. 184

SUBJECT: Steppers for the Continental & Lyric

A line of steppers is available for using wallboxes with Continental and Lyric Automatic Phonographs.

These steppers are in two sections - one containing the relays and the other the stepping switches. When mounted in the phonograph, the relay package will fit to the right of the automatic search unit and the stepping switches will fit underneath the popularity meter. Clips and thumbscrew holes are provided in the mechanism shelf of the phonograph for easy mounting of the units.

Four types of steppers are available:

- Model CCA - to be installed on Continentals to accommodate AMI Wallboxes.
- Model CCB - to be installed on Lyrics to accommodate AMI Wallboxes.
- Model CCC - to be installed on Continentals to accommodate competitive wallboxes.
- Model CCD - to be installed on Lyrics to accommodate Seeburg 100-Selection Wallboxes.

These steppers will work equally well on standard Model K's. Therefore, when the present supply of single unit steppers (CBA, CBB, CBC, & CBD) is exhausted, only the two section steppers will be available.

APPLICATIONS ENGINEERING

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AUTOMATIC MUSIC, INC.

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July 6, 1960

BULLETIN NO. 185
Model "K"

SUBJECT: Mounting of CCA, CCB, CCC, & CCD Steppers

When any of subject steppers are mounted in the phonograph, they must be allowed to "float" on the rubber grommets in their mounting brackets.

If the thumbscrews which hold down the front brackets are tightened too much, the frame of the unit will be warped and cause the number stepper to fail.

Make sure these screws are not tightened enough to compress the rubber grommets in the front mounting brackets.

APPLICATIONS ENGINEERING

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AUTOMATIC MUSIC, INC.

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August 18, 1960

BULLETIN NO. 186

Model K, Lyric, Continental

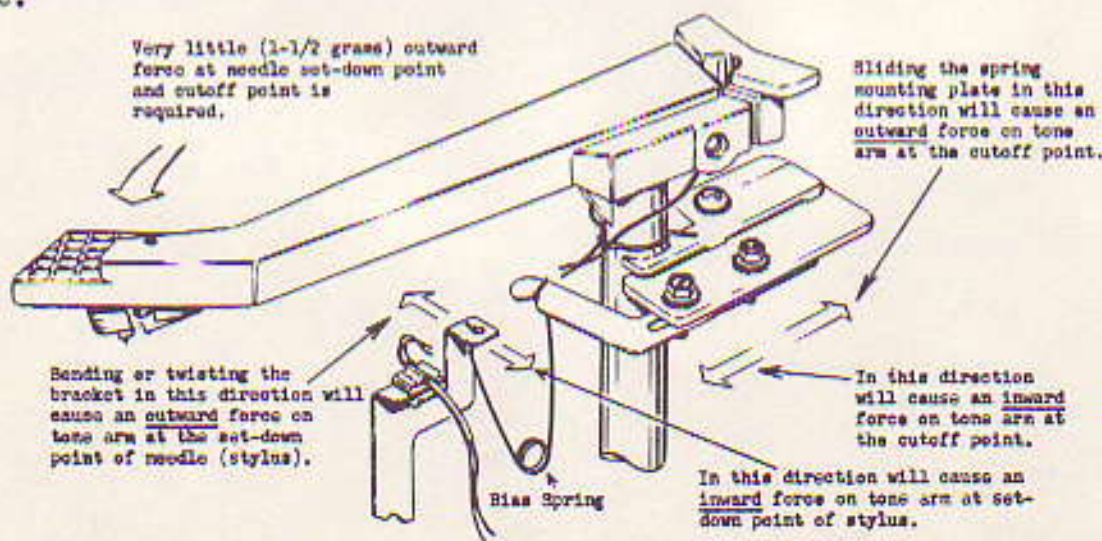
SUBJECT: Tone Arm and Bias Spring Adjustments

Since the publication of the Model K Record Changer Service Manual, certain changes have been made to the tone arm that make it easier to obtain proper tone tracking at low needle pressure. These changes are:

- The addition of a counterbalance weight to the tone arm,
- The addition of a stiffener blade to the needle pressure adjustment spring,
- New, light-weight tone arm cable,
- A new "safety pin" type tone arm bias spring.

The adjustments of the tone arm bias spring are shown in the attached illustration. When the adjustments are correct, there will be a very small outward force on the tone arm when the needle sets down and also at the cutoff point.

To check the lateral force on the tone arm, prop it up by inserting a match, paper clip, or the like, between the tone arm and its rest. The tone arm should not swing in. It should have a tendency to drift out. The force required to push the tone arm in to the point where the cutoff switch operates should not be more than 1-1/2 grams. This should be measured level with the needle.



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SERVICE BULLETIN

AUTOMATIC MUSIC, INC.



1500 UNION AVENUE, S. E., GRAND RAPIDS 2, MICHIGAN • TELEPHONE CHERRY 3-3633

October 7, 1960

BULLETIN #187

Continental/Lyric

SUBJECT: Changes in the Automatic Selector and Automatic Search Unit

During recent weeks we have made some changes in the automatic selector and the automatic search unit of the "Lyric" and "Continental" 100 and 200 Automatic Phonographs which will affect interchangeability of components.

The primary purpose of making this change has been to improve the pushbutton unlatching function. Previously the unlatching function occurred almost simultaneously with the sprag, select, cancel and scan functions in the phonograph. This simultaneous power drain has a tendency to reduce the available power to each individual coil. In the new circuit the unlatching solenoid is energized after the sprag, select, scan and cancel functions have been completed thus availing full power of the power supply to the unlatched solenoid.

Concurrent with this change has been a change in the coupling arrangement between the automatic search unit bullet and the pin pusher tube. This change was made to facilitate the adjustment of pin pusher to pin alignment. The change involved here is merely a reversal of the male to female fit of the bullet to the tube.

Because of the circuit changes, the new components are not interchangeable with older components now in the field.

The new automatic selector unit can be identified by the gold color (dichromate finish) of its mounting plate. The old automatic selector assembly can be identified by the silver colored (cadmium-plated finish) mounting plate. The new automatic search unit can be identified by the shape of the bullet. The new automatic search unit has a blunt bullet with a hole in the end. The old automatic search unit has a pin protruding from the end of the bullet.

- 1 -

October 7, 1960

The coupling to the pin pusher of the manual selector unit has been similarly changed.

Identification of phonographs with these changes thru serial numbers can be determined as follows:

<u>Model</u>	<u>Serial No.</u>
100 Selection Automatic	615611
100 Selection Automatic (Stereo)	620101
100 Selection Manual	605111
200 Selection Automatic	595881
200 Selection Automatic (Stereo)	600501
200 Selection Manual	585031

If the occasion arises where early versions of the R-1893 (CCA, CCB, CCC and CCD) stepper are used with the new version of phonographs, it will be necessary to insert a jumper wire into the wiring harness of the stepper unit. This jumper wire must be inserted from pin #9 of the 9-connection female plug which connects to the receiver to pin #9 of the 9-connection male plug which connects to the transmitter. These plugs can be identified by the fact that they also contain yellow, black, black/white and red/white wires. No other plugs in the stepper unit contain this same combination of colors. Late models of the R-1893 steppers will already contain this jumper wire as supplied from the factory.

Because interchangeability has been affected, new assembly numbers have been assigned for the automatic selector unit and automatic search units. These new and old assembly numbers are as follows:

	<u>New Assembly Number</u>	<u>Old Assembly Number</u>
<u>Automatic Selector Unit</u>		
200 Automatic	R-1865-E	R-1865-A
100 Automatic	R-1865-F	R-1865-B
<u>Automatic Search Unit</u>		
200 Automatic	R-2405-F	R-2405-C
100 Automatic	R-2405-G	R-2405-D

KHH/hr

APPLICATIONS ENGINEERING

SERVICE BULLETIN

AUTOMATIC MUSIC, INC.

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BULLETIN No. 188

NEW CIRCUIT BOARD AND FUSE FOR THE R-1473 CREDIT UNIT

Hi! In case we have not met before, my name is SWAMI — in recognition of my years of "Service With AMI." I am devoted to helping operators and service men enjoy trouble-free and profitable performance of their AMI equipment.

In offering the new circuit board and fuse feature, as announced in this bulletin, we are following the AMI tradition of offering you another opportunity to keep your present equipment up-to-date and trouble free.

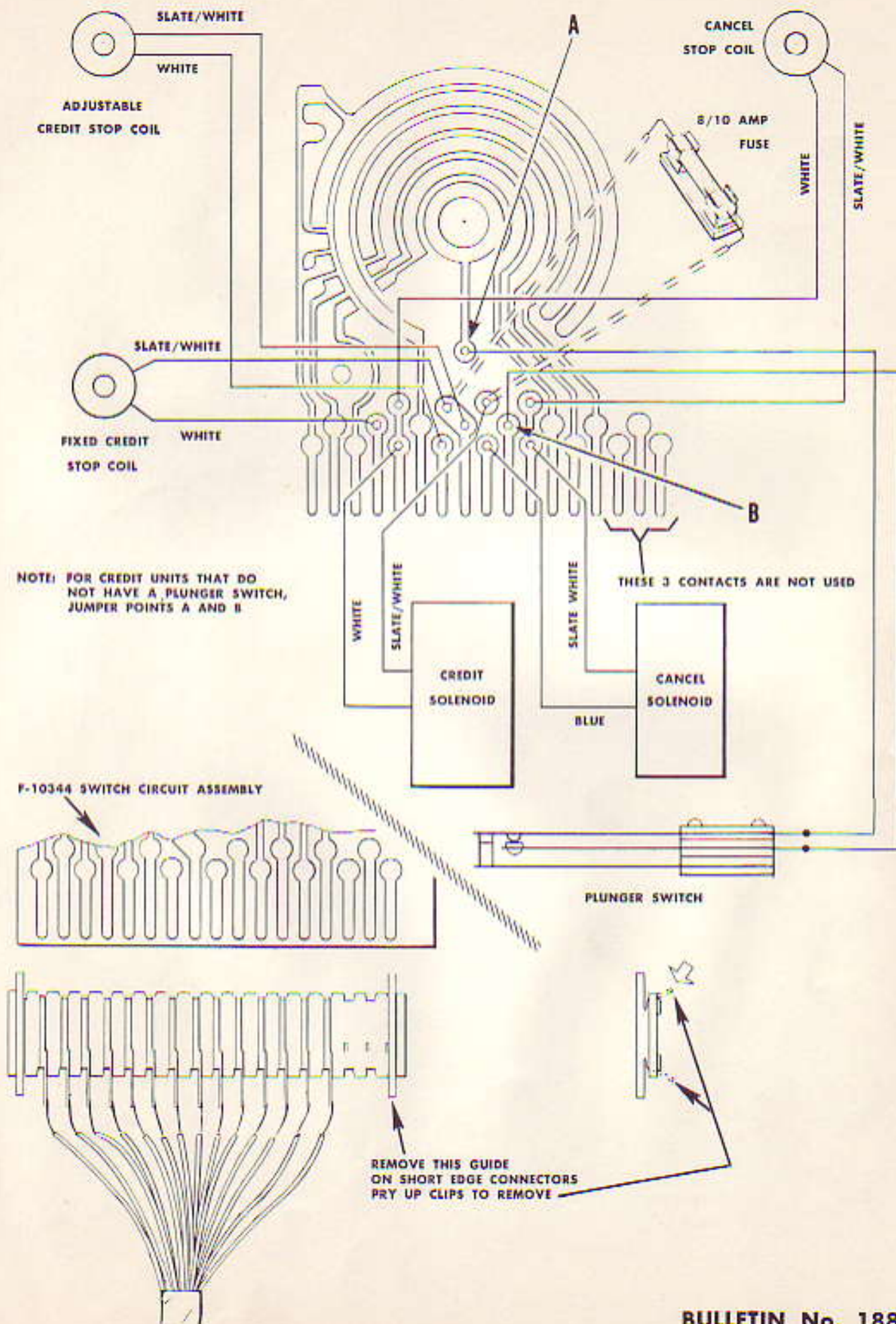


A recent change in the R-1473 credit unit incorporates an 8/10 amp. slow blow fuse on the switch circuit assembly. This fuse protects the main credit solenoid in case a light weight or bent coin lodges on the coin switches.

This change requires a new switch circuit board assembly (part No. F-10344) which replaces and supersedes earlier versions of this part.

The new switch circuit board can be used in all versions of the R-1473 credit unit. The following sketches show the proper connections.

See illustrations on second page of this bulletin



SERVICE BULLETIN

AUTOMATIC MUSIC, INC.



1500 UNION AVENUE, S. E., GRAND RAPIDS 2, MICHIGAN • TELEPHONE CHERRY 3-3633

May 1, 1961

BULLETIN NO. 189

Subject: Instructions for using Stereo Cartridge with a
Monaural Amplifier

1. Remove the monaural cartridge and install the stereo cartridge.
2. Unsolder the pin terminals from the tone arm cable and replace with the clip terminals packed with the stereo cartridge. The "R" terminal and the "L" terminal on the cartridge should be connected together and both connected to the red wire in the phono cable. The remaining two terminals should be connected together and connected to the black wire in the phono cable. Thus each of the two wires in the phono cable should have two clip terminals soldered to it. The shield on the stereo cartridge should not be grounded at the terminals just as the shield is not grounded at the terminals on the monaural cartridge.
3. Check stylus force after the stereo cartridge is installed to see that it is between 5 and 7 grams.
4. Check needle height and readjust if necessary.

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AFFILIATE OF AUTOMATIC CANTEEN COMPANY of AMERICA

May 15, 1961

BULLETIN # 190

PF-187 REPLACEMENT PARTS GROUP FOR THE AUTO MIX

We can no longer supply the F-10379 sensing switch nor the F-10378A switch lever used on the first production run of Auto Mixes.

A group of parts consisting of a new switch, switch lever, mounting bracket, hardware, and instructions has been prepared for use when it is necessary to replace either of the above mentioned original parts. This parts group should be ordered under the number PF-187.

FIELD SERVICE ENGINEERING

SERVICE BULLETIN

AUTOMATIC MUSIC, INC.

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AFFILIATE OF AUTOMATIC CANTEN COMPANY of AMERICA

AMI

August 14, 1961

SERVICE BULLETIN # 191

Subject: Noise suppression in the CONTINENTAL 2 phonograph.

To eliminate extraneous noises from the sound system in the CONTINENTAL 2, some minor circuit changes are being made. These changes are:

1. Connecting .02 MFD disc ceramic capacitors across each coin switch. These capacitors will be mounted directly on the coin switch assembly.
2. Providing time delay for the amplifier muting relay. The time delay components, a 100 MFD electrolytic capacitor in series with a 100 ohm resistor, are mounted in the record changer control box along with the reversing relay and DC switch.

This change requires an additional set of normally open contacts on the reversing relay and a revision of the record changer wiring harness. Interchanging early and new components will give the following results:

A new record changer control box used on a record changer wired with an early harness will work, but this combination will not provide the desired time delay for the muting relay.

An old record changer control box used on a record changer wired with a new harness will make the popularity meter inoperative and will not provide the desired time delay for the muting relay. Everything else in the phonograph will function normally.

3. Bypassing the 5500 ohm, 10 watt resistor in the amplifier power supply filter section with a .047 capacitor.

Changes 1 and 3 listed above are already in effect. Change 2 will go into effect on about August 14. Corrected schematic charts showing these changes will be included with each phonograph at that time.


Cliff L. Bitting
Field Service Engineering

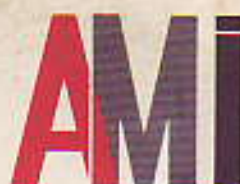
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SERVICE BULLETIN

AUTOMATIC MUSIC, INC.

1500 UNION AVENUE, S. E., GRAND RAPIDS 2, MICHIGAN • TELEPHONE CHERRY 3-3633

AFFILIATE OF AUTOMATIC CANTINE COMPANY of AMERICA



August 14, 1961

SERVICE BULLETIN # 192

Subject: New Speaker Dividing Network for the CONTINENTAL 2.

A new speaker dividing network - part number L-2722B is being incorporated into the CONTINENTAL 2.

This new network and a change in the speaker connections gives the CONTINENTAL 2 more pronounced bass while maintaining wide stereo separation.

Phonographs equipped with the new network can be identified by a label attached to floor of the amplifier compartment. The label reads:

NOTE

L-2722B SPEAKER DIVIDING NETWORK INSIDE. FOR SPEAKER CONNECTIONS USE CHART F-10571-D ONLY.

Revised speaker connection charts and amplifier schematics will be included in each phonograph.

Cliff L. Bitting
Cliff L. Bitting
Field Service Engineering

CLB:amc

SERVICE BULLETIN

AUTOMATIC MUSIC, INC.

1500 UNION AVENUE. S. E., GRAND RAPIDS 2, MICHIGAN • TELEPHONE CHERRY 3-3633

AFFILIATE OF **AUTOMATIC CANTEN COMPANY** of AMERICA

AMi

October 9, 1961

SERVICE BULLETIN #193

Subject: PF-189 Turntable Idler and Link Assembly.
Replacement for F-898 Idler pulley.

The F-898 turntable idler pulley used on Models F through CONTINENTAL 1 is no longer available. In its place we will furnish a PF-189 turntable idler and link assembly.

This assembly consists of an F-8006A idler - as used on the CONTINENTAL 2 - and a link which will adapt it for mounting on the earlier turntables.

Cliff L. Bitting
FIELD SERVICE ENGINEERING

CLB:emc

SERVICE BULLETIN

AUTOMATIC MUSIC, INC.

1500 UNION AVENUE, S. E., GRAND RAPIDS 2, MICHIGAN • TELEPHONE CHERRY 3-3633

AFFILIATE OF AUTOMATIC CANTEEN COMPANY of AMERICA

AMi

October 25, 1961

SERVICE BULLETIN #194

Subject: Operation of monaural 8 ohm extension speakers with
CONTINENTAL 2 STEREO ROUND phonographs.

Eight ohm speakers can be used to provide monaural or center channel sound from a CONTINENTAL 2 phonograph in areas not covered by the phonograph itself. The 8 ohm speakers must be connected between terminal 5 of the basic amplifier (left channel) and terminal 5 of the add-on power amplifier (right channel). This will provide 4-1/2 watts to each speaker so connected (2-1/4 watts from each channel).

The number of 8 ohm monaural speakers that can be connected depends upon the power setting of the STEREO ROUND speaker system in the phonograph and the power setting of other monaural or stereo extension speakers that are connected to the amplifier. The total power settings of all speakers connected to the amplifier must not exceed 20 watts per channel or 40 watts total.

Note: To avoid excessive power loss, lines connecting 8 ohm speakers must not exceed 100 feet. This will give a 15% power loss for 18 guage wire. If more than one speaker is connected to the line, the length should be reduced proportionally.

C. L. Bitting
Cliff L. Bitting
Field Service Engineering

CLB:emc