

Production Changes in 1942 Models

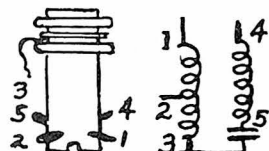
The following pages contain complete listings of all major changes—involving changes in circuit, part numbers or anything of interest to the serviceman—in Philco Models current at the time of printing. These are all the changes which have been made since the date of publication of the last printing of the Philco Service Bulletin on each model; the number of the Bulletin is given in each case for reference.

This sheet in addition to Service Bulletin, gives the service man a complete record on each model; thus he will not be inconvenienced at finding, when servicing a current set, that it differs from that shown in the original Service Bulletin.

The Model, Code and Run Numbers are stamped on the rear of the chassis.

MODEL 41-231 Radio Service Bulletin No. 386

The physical sketch of aerial transformer 9 and 10 shown on the diagram page 1 is incorrect. The correct sketch and diagram with lug locations is shown below.



9-10 ANT TRANS
Model 41-231

MODEL 42-PT-10 Radio Service Bulletin No. 412

Volume control (20) Part No. 33-5469 list in the Service Bulletin is used on Model 42-321 only. The volume control for Model 42-PT-10 is Part No. 33-5434.

MODEL 42-PT-87 Radio Service Bulletin No. 387

Three types of speakers were used on this model and each require a different cone assembly number. These are as follows:

Speaker	Cone Assembly
36-1521-3	36-4175
36-1556-1	36-4214
36-1577-1	36-4214

When using speaker Part No. 36-1556, condenser (26) .0015 mfd., 400 volts, Part No. 30-4555, is changed to .004 mfd., 600 volts, Part No. 30-4623. Chassis with this change are marked run 2. Chassis with this change also have a .01 mfd., condenser Part No. 30-4572 connected from the plate of the 35Q5GT output tube to the aerial terminal panel on top of chassis. This condenser used as a means of connecting an output meter to the output circuit for test purposes.

When using speaker Part No. 36-1577, condenser (26) .0015 mfd., 400 volts, Part No. 30-4555 is changed to .002 mfd., 600 volts, Part No. 30-4622. Chassis with this change are marked run 3.

MODEL 42-PT-88 Radio Service Bulletin No. 387

Three types of speakers were used on this model and each require a different cone assembly number. These are as follows:

Speaker	Cone Assembly
36-1521-3	36-4175
36-1556-1	36-4214
36-1577-1	36-4214

When using speaker Part No. 36-1556, condenser (26) .0015 mfd., 400 volts Part No. 30-4555, is changed to .004 mfd., 600 volts, Part No. 30-4623. Chassis with this change are marked run 2. Chassis with this change also have a .01 mfd., condenser Part No. 30-4572 connected from the plate of the 35Q5GT output tube to the aerial terminal panel on top of chassis. This condenser used as a means of connecting an output meter to the output circuit for test purposes.

When using speaker Part No. 36-1577, condenser (26) .0015 mfd., 400 volts, Part No. 30-4555 is changed to .002 mfd., 600 volts, Part No. 30-4622. Chassis with this change are marked run 3.

MODELS 42-PT-91, 92, 93, 94, 95 Bulletin No. 392

Condenser and choke assembly (5) Part No. 76-1161 changed to Part No. 76-1418.

Models PT-94 and PT-95 dial pointers changed from Part No. 54-4043 to 54-4148. Model PT-94. Knob changed from Part No. 27-4809 to 54-4137.

Model PT-95 knob changed from Part No. 27-4810 to Part No. 54-4143.

Three types of speakers were used on these models. The speakers Part Nos. are 36-1542-9, 36-1542-3 and 36-1542-2. The cone assemblies for each speaker differ as follows:

Speaker	Cone Assembly
36-1542-9	36-4204
36-1542-3	36-4225
36-1542-2	36-4218

MODEL 42-122, CODE 121 Radio Service Bulletin No. 395

To improve tuning the drive cord on the tuning condenser was changed from Part No. 31-2512 to 31-2516.

To prevent audio microphonics resistor (26) 10,000 ohms was changed to 4700 ohms Part No. 33-247339. Chassis with this change are marked run 2.

MODEL 42-123, CODE 121 Radio Service Bulletin No. 395

To prevent audio microphonics resistor (26) 10,000 ohms was changed to 4700 ohms Part No. 33-247339.

MODEL 42-124, CODE 121 Radio Service Bulletin No. 390

To improve the audio power output resistor (50) 800 ohms was changed to 680 ohms Part No. 33-168336.

MODEL 42-125, CODE 121 Radio Service Bulletin No. 390

To improve the audio power output resistor (50) 800 ohms was changed to 680 ohms Part No. 33-168336.

MODEL 42-126, CODE 121 Radio Service Bulletin No. 390

To improve the audio power output resistor (52) ohms was changed to 680 ohms 33-168336.

MODEL 42-323, CODE 121-122 Radio Service Bulletin No. 397

The cabinet Part No. for code 122 is 10565B. The cabinet Part No. 10565A is used with Code 121 models.

Correction: Diagram page 3. The rectifier tube is listed as a 35Z3GT. The correct designation is 35Z3.

MODEL 42-327, CODE 121-122 Radio Service Bulletin No. 397

Cabinet Part No. 10561B is used with Code 122 chassis. The cabinet for Code 121 is Part No. 10561-A as listed in the Service Bulletin. The push-button escutcheon for Code 122 is Part No. 56-2233FCP.

The aerial transformer (2) (Broadcast) on later production chassis was changed from Part No. 32-3714 to 32-3877. Lug wiring on both coils remains the same as shown in the Service Bulletin.

Correction: Diagram page 4. The rectifier tube is listed as a 35Z3GT. The correct designation is 35Z3.

MODEL 42-335, CODE 121 Radio Service Bulletin No. 400

The power transformer for operation on 115 or 230 volt 60 cycle current is Part No. 32-8093.

Tuning shaft changed from Part No. 56-6152FA3 to 56-6193CP. New shaft is coated with fiberblock instead of rubber.

Drive cord changed from Part No. 31-2546 to Part No. 31-2615 when using tuning shaft 56-6193CP.

MODEL 42-340, Code 121 Radio Service Bulletin No. 397

The power transformer for operating this model on 115 volts, 25 cycle current is Part No. 32-8075. Shield (power transformer) 56-1547FC40; base (power transformer) 56-1548FA5.

To increase sensitivity aerial transformer (Broadcast) (4) is changed from Part No. 32-3724 to Part No. 32-3871.

For operation on 115 or 230 volt, 60 cycle operation power transformer Part No. 32-8093 is used; conversion plug is L-3275 required.

Tuning shaft changed from Part No. 56-6152FA3 to 56-6193CP.

Drive cord changed from Part No. 31-2546 to Part No. 31-2615 when using tuning shaft Part No. 56-6193CP.

MODEL 42-345, CODE 121 Radio Service Bulletin No. 397

To operate this model on 115 volts, 25 cycle current use power transformer Part No. 32-8075.

For operation on 115 or 230 volt, 60 cycle current use power transformer Part No. 32-8093.

Tuning shaft changed from Part No. 56-6152FA3 to Part No. 56-6193CP when using tuning shaft Part No. 56-6193CP.

Drive cord change from Part No. 31-2546 to Part No. 31-2615 when using tuning shaft Part No. 56-6193CP.

MODEL 42-350, CODE 121 Radio Service Bulletin No. 406

To improve filtering in the rectifier circuit and prevent flutter on the F.M. band, electrolytic condenser (40) (40A) 4-4 mfd., 400 volts Part No. 30-2477 changed to 4-12 mfd. Part No. 30-2537. The 4 mfd. section is connected to position (40A) and the 12 mfd. section in position (40).

To prevent parasitic oscillation the ground lead of condenser (30) is removed from contact 4 of the 7V7 1st I. F. tube socket and reconnected to contact (8) of the same tube socket.

In the schematic diagram, figure 2, page 2, circled numbers (15A) should be (11), 11B should be (15A) and 11 should be (11B).

Tuning shaft changed from Part No. 56-6156FA3 to 56-6194CP.

Drive cord changed from Part No. 31-2546 to Part No. 31-2615 when using tuning shaft 56-6194CP.

Beginning with chassis marked production run 2, the power transformer seventy-nine was changed from Part No. 32-8183 to Part No. 32-8220.

MODEL 42-355, CODE 121 Radio Service Bulletin No. 398

Push-button knob changed from Part No. 54-4111 to 54-4144.

To operate this model on a 115 or 230 volt, 60 cycle power supply power transformer Part No. 32-8212 is required.

To increase sensitivity aerial transformer (5) Part No. 32-3811 is changed to 32-3874. 1.

Tuning shaft changed from Part No. 56-6152FA3 to 56-6193CP.

Beginning with chassis marked run 2, the power transformer (90) was changed from Part No. 32-8187 to 32-8221.

MODEL 42-360, CODE 121 Radio Service Bulletin No. 397

To operate on 115 volts, 25 cycle A.C. current power transformer Part No. 32-8149 is used.

For operation on a 115 or 220 volt, 60 cycle A.C. power supply, use transformer Part No. 32-8094.

To improve performance aerial transformer (Brdcst Band) (5) is changed from Part No. 32-3726 to 32-3863. The lug arrangement for both coils is shown on the schematic diagram. In some later production chassis of Model 42-360 a 7Y4 rectifier tube is used in place of an 84 tube.

MODEL 42-365, CODE 121 Radio Service Bulletin No. 397

The pointer drive cord on later production chassis was changed from Part No. 31-2597 to 31-2608. The new cord is shorter than the original one.

To operate this model on 115 volts, 25 cycle A.C. current change power transformer (61) from Part No. 32-8117 to Part No. 32-8149.

For operation on 115 or 230 volt, 60 cycle A.C. power circuits use power transformer 32-8094.

Aerial transformer (9) changed from Part No. 32-3755 to 32-3864 to improve the operating performance of the receiver.

MODEL 42-380, CODE 121 Radio Service Bulletin No. 407

To operate this model on 115 volt, 25 cycle A.C. current replace power transformer (62) Part No. 32-8177 with Part No. 32-8195.

For operation on a 220 volt 60 cycle A.C. current power transformer Part No. 32-8212 is required.

In later production models the aerial transformer (3) Part No. 32-3746 was changed to Part No. 32-3869 to increase the sensitivity.

Tuning shaft changed from Part No. 56-6152FA3 to 56-6193CP.

MODEL 42-390, CODE 121 Radio Service Bulletin No. 398

To increase the sensitivity the aerial transformer (5) was changed from Part No. 32-3790 to Part No. 32-3870.

Push-button knobs changed from Part No. 54-4111 to 54-4144.

To operate this model on a 115 volt 25 cycle A.C. power supply change the power transformer from Part No. 32-8177 to 32-8195.

For operation on 220 volts, 60 cycle current, power transformer 32-8212 is required.

Tuning shaft changed from Part No. 56-6152FA3 to 56-6193CP.

Beginning with chassis marked run 2, the power transformer (90) Part No. 32-8177 is changed to Part No. 32-8222.

MODEL 42-395, CODE 121 Radio Service Bulletin No. 411

A few early production chassis of this model used speaker Part No. 36-1515-4 (cone assembly 36-4181) and speaker Part No. 36-1515-2 (cone assembly 36-4173).

All later production models use speaker Part No. 36-1530 (cone assembly 36-4181) as list in the Service Bulletin.

To operate on 115 volts, 25 cycle current change the power transformer from Part No. 32-8192 to Part No. 32-8209.

For operation on 220 volts, 60 cycle current, use power transformer Part No. 32-8213.

The broadcast aerial transformer (3) Part No. 32-3790 was changed to Part No. 32-3870 on later production chassis to increase the sensitivity.

Tuning shaft changed from Part No. 56-6164 to 56-6195CP.

To improve the I.F. filtering of the plate voltage supply, condenser (47) was changed from .05 mfd. Part No. 30-4518 to .2 mfd. Part No. 30-4594.

MODEL 42-400, CODE 121 Radio Service Bulletin No. 416

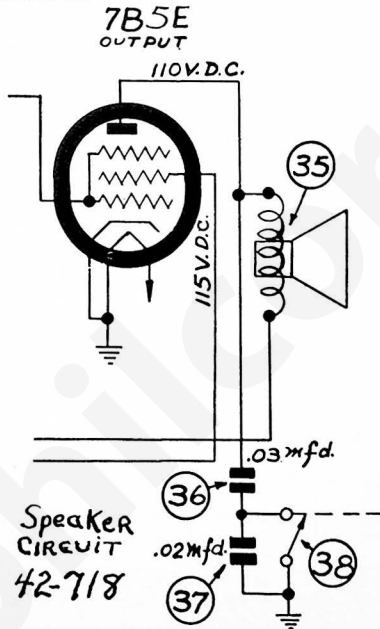
Condenser (59D) which is mounted in the fourth I.F. transformer is Part No. 60-150227. This number is not shown in the parts list.

MODEL 42-718, CODE 121 Radio Service Bulletin No. 389

Beginning with run 2, the speaker (35) was changed from Part No. 36-1520-4 to Part No. 36-1576. The new speaker is a permanent type and the wiring is different from that shown on the diagram for speaker Part No. 36-1520-4. The wiring for the new speaker is shown below.

Output transformer (34) Part No. 32-8106 is also removed when the permanent speaker Part No. 36-1576 is installed.

The voice coil in the new speaker takes the place of the output transformer.



MODEL 42-730, CODE 121 Radio Service Bulletin No. 405

To prevent moisture from affecting circuits, condensers (44), (48) and (51) changed from Part No. 30-4591 to Part No. 30-4610. Values remain the same.

MODEL 42-760, CODE 121 Radio Service Bulletin No. 399

Beginning with chassis marked run 2, the band switch (85) was changed from 42-1660 to 42-1711.

MODEL 42-761, CODE 121 Radio Service Bulletin No. 399

Beginning with chassis marked run 4 condenser (13) Part No. 30-4586 .1 mfd., 200 volts changed to .1 mfd., 400 volts Part No. 30-4527.

Correction: Dial scale pointer Part No. should be 56-2134 instead of 56-1234 as shown in the parts list.

MODEL 42-762, CODE 121 Radio Service Bulletin No. 399

Beginning with chassis marked run 3, the speaker of this model was changed from permanent magnet type Part No. 36-1508-3 to electro-dynamic type Part No. 36-1568. Speaker cable for the new speaker is Part No. 41-3535.

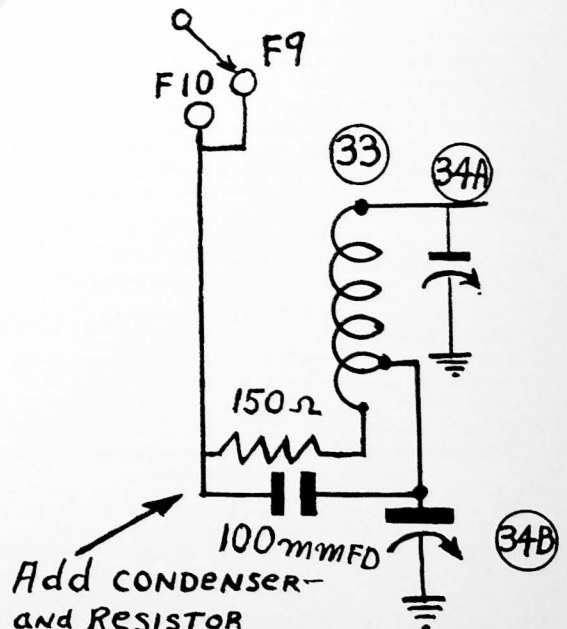
The voice coil of the electro-dynamic speaker is connected as shown in the Service Bulletin. The field coil of the speaker is connected to the + positive and (-) negative wiring of the 6 volt storage battery.

MODEL 42-788, CODE 121 Radio Service Bulletin No. 403

To improve operating conditions in humid climates the part numbers of the following condensers were changed. Values remain the same:

Schematic No.	Description	Original Part No.	New Part No.
54	CONDENSER (.01 mfd.)	30-4572	30-4598
400	volts		(1000 volts)
61	CONDENSER (.006 mfd.)	30-4591	
400	volts		30-4610
70	CONDENSER (.05 mfd.)	30-4519	30-4609
200	volts		200 volts
84	CONDENSER (.003 mfd.)	30-4582	30-4608
			(600 volts)

If trouble is experienced in padding the 22 M.C. normal tuning range (compensator 38A), the installation of a 150 ohm resistor Part No. 33-115339 and a 100 mmfd. condenser will improve the operation. These parts are installed in the circuit as shown in the diagram below.



MODELS 42-842, 42-843, 42-844**Radio Service Bulletin No. 391**

To improve the tuning operation of the oscillator circuit the oscillator transformer (7) was changed from Part No. 32-3633 to 32-3685. The iron core for both of these transformers is Part No. 57-2325.

Power cord changed from Part No. L-3199 to L-3299.

Correction: Resistor (49) shown as 33-218339 in the parts list should be changed to 33-3410.

MODELS 42-853, 42-854 Radio Service Bulletin No. 388

Correction, Note B, page 1:

The second line of this paragraph should read as follows: "adjusted, the image signal will be found by turning the signal generator 910 K.C. above the fundamental signal which will be 15.910 M.C."

MODEL 42-1001, CODE 121 Bulletin No. 393**CONVERTING THE PHONOGRAPH MOTOR FOR USE ON 50 CYCLE A.C. LINES**

The motor in this model designed for operation on 60 cycle A.C. lines. The motor will operate satisfactorily on 50 cycle lines. The only change that needs to be made is to change the drive ratio between the motor pulley and the turntable drive pulley. This is accomplished by putting a coil spring, Part No. 28-8999, over the motor drive pulley. Screw it on the drive pulley counterclockwise with the long pig tail at the top. The pig tail can be cut off after the spring has been placed on the pulley.

MODEL 42-1002, CODE 121-122 Bulletin No. 404**CONVERTING THE PHONOGRAPH MOTOR FOR USE ON 50 CYCLE A.C. LINES**

The motor in this model designed for operation on 60 cycle A.C. lines. The motor will operate satisfactorily on 50 cycle lines. The only change that needs to be made is to change the drive ratio between the motor pulley and the turntable drive pulley. This is accomplished by putting a coil spring, Part No. 28-8999, over the motor drive pulley. Screw it on the drive pulley counterclockwise with the long pig tail at the top. The pig tail can be cut off after the spring has been placed on the pulley.

MODEL 42-1003, CODE 121-122 Radio Service Bulletin No. 404

The light beam pick-up (9) of later production Code 122 chassis was changed from a metal tone arm Part No. 35-2517 to a plastic tone arm Part No. 35-2601. The counter-weight when using the plastic tone arm is Part No. 318-2863 (3 oz.). A new rubber bumper is also required Part No. 54-4167.

CONVERTING THE PHONOGRAPH MOTOR FOR USE ON 50 CYCLE A.C. LINES

The motor in this model designed for operation on 60 cycle A.C. lines. The motor will operate satisfactorily on 50 cycle lines. The only change that needs to be made is to change the drive ratio between the motor pulley and the turntable drive pulley. This is accomplished by putting a coil spring, Part No. 28-8999, over the motor drive pulley. Screw it on the drive pulley counterclockwise with the long pig tail at the top. The pig tail can be cut off after the spring has been placed on the pulley.

MODEL 42-1004, CODE 121 Radio Service Bulletin No. 413

To improve the operating performance of the rectifier circuit, the wiring of rectifier tube 50Y6GT socket was changed as follows:

Remove the bare wire between contacts 2 and 3. Connect a wire from contact 3 of the socket (see figure 3 in bulletin) to the lug of the filament resistor (43) to which condenser (40) is already attached. This change was incorporated in all chassis marked run 2. Sets prior to run 2 do not have this wiring change.

Beginning with chassis marked run 3 condenser (36) .01 mfd., 400 volts Part No. 30-4572 was changed to .006 mfd., 400 volts Part No. 30-4591. This change was made to improve the tone quality of the phonograph.

Loop Aerial (1) changed from Part No. 76-1368 to Part No. 76-1372.

CONVERTING THE PHONOGRAPH MOTOR FOR USE ON 50 CYCLE A.C. LINES

The motor in this model designed for operation on 60 cycle A.C. lines. The motor will operate satisfactorily on 50 cycle lines. The only change that needs to be made is to change the drive ratio between the motor pulley and the turntable drive pulley. This is accomplished by putting a coil spring, Part No. 28-8999, over the motor drive pulley. Screw it on the drive pulley counterclockwise with the long pig tail at the top. The pig tail can be cut off after the spring has been placed on the pulley.

MODEL 42-1005, CODE 121-122 Radio Service Bulletin No. 415

Two types of Photo Electric pickups (9) were used on Code 122 models. One consisted of a metal tone arm Part No. 35-2531 and the other a plastic arm Part No. 35-2602. When using the plastic tone arm a 3 oz. counter weight Part No. 318-2863 must be used in the supporting end of the arm. A new tone arm bumper Part No. 54-4167 is also required.

CONVERTING THE PHONOGRAPH MOTOR FOR USE ON 50 CYCLE A.C. LINES

The motor in this model designed for operation on 60 cycle A.C. lines. The motor will operate satisfactorily on 50 cycle lines. The only change that needs to be made is to change the drive ratio between the motor pulley and the turntable drive pulley. This is accomplished by putting a coil spring, Part No. 28-8999, over the motor drive pulley. Screw it on the drive pulley counterclockwise with the long pig tail at the top. The pig tail can be cut off after the spring has been placed on the pulley.

MODEL 42-1006, CODE 122 Radio Service Bulletin No. 417

Condenser (7) changed from Part No. 76-1161 to 76-1227. Values remain the same. Construction change only.

CONVERTING THE PHONOGRAPH MOTOR FOR USE ON 50 CYCLE A.C. LINES

The motor in this model designed for operation on 60 cycle A.C. lines. The motor will operate satisfactorily on 50 cycle lines. The only change that needs to be made is to change the drive ratio between the motor pulley and the turntable drive pulley. This is accomplished by putting a coil spring, Part No. 38-9003, over the motor drive pulley. Screw it on the drive pulley counterclockwise with the long pig tail at the top. The pig tail can be cut off after the spring has been placed on the pulley.

MODEL 42-1008, CODE 121-122
42-1009, CODE 121-122

Radio Service Bulletin No. 401

Production changes 42-1008, 42-1009, Code 121-122.

No. 1. Two types of Phonograph Reproducer Tone arms (90) were used on the Record changer. Tone arm Part No. 35-2518 is made of metal die cast material and Part No. 35-2540 a Plastic material. Since the weight of each tone arm is different, two counter weights are required. The aluminum arm requires a 1½ ounce weight Part No. 218-1420 and the bakelite arm a 3 ounce weight Part No. 218-1531.

CODE 121

To improve the performance of the phonograph reproducer light oscillator circuit, the oscillator transformer (16) was changed from Part No. 32-3785 to 32-3866. The wiring lug arrangement as shown in the Service Bulletin applies to both transformers.

CIRCUIT DIFFERENCES, CODE 121 AND 122

Production Code 122 of Models 42-1008 and 42-1009 differs from Code 121 in several circuit parts. The service information in Radio Service Bulletin 401 for Code 121 with the exception of these parts apply to Code 122. The circuit changes are as follows:

The phonograph oscillator transformer (16) changes from Part No. 32-3785 to 32-3866.

Condenser (56) .2 mfd. is replaced with a 10 mfd. condenser Part No. 30-2500 in Code 122 chassis.

Resistor (57) 2200 ohms is changed to 3300 ohms Part No. 33-233339.

Power transformer (78) Part No. 32-8129 is changed to Part No. 32-8217.

Transformer Part No. 32-8217 does not have filament winding "A" "A" for the 7C6 oscillator tube as shown in bulletin 401.

In Code 122 the 7C6 phonograph oscillator tube filament is connected to filament winding B of transformer Part No. 32-8217 one connection of the tube filament is grounded.

The phonograph input transformer (91) in Code 122 models is Part No. 32-8215.

The tuning shaft in Code 122 is Part No. 56-6196 FCP.

Tuning shaft drive cord Code 122 is Part No. 31-2614.

PUSH-BUTTON PADDING PROCEDURES CHANGE
42-1008, CODE 122

A few models were assembled with the push-button compensator assembly (20) reversed. The padder locations for the push-button is the reverse of that shown on page 1 of bulletin 401.

The push-button adjustments on these receivers should be adjusted in accordance with the frequency coverage shown below.

Button Position From Front of Cabinet	Adjust Padder Number (From Rear of Cabinet)	Range Coverage K.C.
1 (Next to On-Off Switch)	1 & 2	1185-1720
2	3 & 4	850-1600
3	5 & 6	710-1185
4	7 & 8	540-980
5	9 & 10	540-980

MODELS 42-1010, 42-1011, CODE 121

Radio Service Bulletin No. 408

Beginning with later production of Model 42-1010 and first production of Model 42-1011, a 10 mmfd. condenser Part No. 60-010137 was connected in series with compensator (5B) osc. This condenser improves the padding of compensator (5B) osc. on 15 MC.

Beginning with run 2 chassis of Models 42-1010 and 42-1011 resistor (7) Part No. 33-322339 was changed to 33-333339. This change was made to prevent the phono reproducer light control (17) elements from becoming shorted due to high current.

HUM REDUCTION

To reduce hum, electrolytic condenser (32)-(32A) 8-8 mfd., 475 volts Part No. 30-2535 was changed to 8-24 mfd., 475 volts Part No. 30-2538. The 8 mfd. section is connected in the circuit position (32) and the 24 mfd. section in position (32A). Chassis with this change are marked run 4. In some receivers prior to this change an 18 mfd. condenser was connected in parallel with (32A).

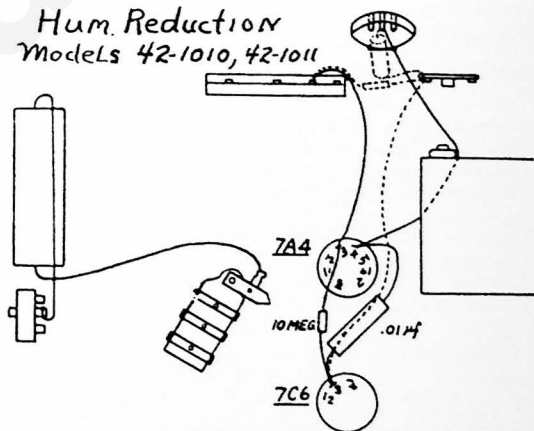
Remove the .01 mfd. condenser, Part No. 30-4572, which is connected to the center tap of the volume control to the terminal on the wiring panel right below it. Also, remove the 10 meg. resistor which is wired to this terminal and to the second terminal of the bias resistor 82.

Remove the wire which formerly connected the resistor and condenser to the #3 terminal of the 7C6 tube socket.

Connect the center terminal of the volume control to the dummy #4 terminal of the 7A4 tube socket. Connect the second terminal of the resistor 82 to the dummy #3 terminal of the 7A4 tube socket. Both of these leads must be dressed close to the sub base. Follow the layout shown in the accompanying diagram.

Connect the .01 mfd. condenser, Part No. 30-4572, from the #3 terminal of the 7C6 tube to the #4 terminal of the 7A4 tube. Connect the 10 meg. resistor from the #3 terminal of the 7C6 tube to the #3 terminal of the 7A4 tube.

In the diagram, the parts and wires indicated by the dotted lines are to be removed. The 10 meg. resistor and the .01 mfd. condensers are shown in their new location. The location of the 18 mfd. condenser and the wiring connections are also shown.



To prevent oscillation a .2 mfd. 400 volts condenser, Part No. 30-4594, was connected in the circuit at the lug of the terminal panel where resistors (33), (39) and (44) are connected. Ground one side of the condenser. Chassis with this change are marked run 3.

The tuning condenser (24) tuning shaft changed from Part No. 56-6168 FA3 to 56-6195 FCP.

Beginning with chassis marked run 5. Mica condenser (16) 375 mmfd. Part No. 20-037517 was changed to 350 mmfd., Part No. 20-035021. This change made to improve oscillator performance.

Correction diagram page 2:

The connection from contact 13 of the B.C. pushbutton should be connected to the tuning condenser only. The line shown connected to the line which connects contact 11 to the antenna socket should be removed.

MODELS 42-1012, 42-1013, CODE 121

Radio Service Bulletin No. 420

Condenser (5X) 15 mmfd. shown on diagram and not indicated in the parts list is Part No. 60-015157.

Condenser (7X) 10 mmfd. shown on diagram and not indicated in the parts list is Part No. 60-010157.

If the loop aerial (Brdest & S.W.) 3 is removed from the cabinet for replacement or repairs, it should be remounted with the side of the loop having the red or red and white lead toward the rear of the cabinet. This is necessary to increase the stability at the low frequency end of the broadcast band and to reduce whistles.

Beginning with chassis marked run 2, the power transformer (107) was changed from Part No. 32-8204 to 32-8226.

MODEL 42-1015, CODE 121 Radio Service Bulletin No. 421

Beginning with chassis marked run 2, a filter circuit was added to the 6L6G output tubes to reduce hum. This circuit consists of condenser (89) .1 mfd., 200 volts, Part No. 30-4586, and resistor (90), 100,000 ohms, Part No. 33-410154. This change is shown on the schematic diagram in the Service Bulletin. A few early production models do not have this change.

Beginning with run 3 condenser (62) was changed from a .006 mfd., 400 volts, Part No. 30-4591 to .05 mfd., 400 volts, Part No. 40-4518. A few early production models do not have this change.

To avoid coupling the broadcast loop and the set wiring on Model 42-1015, it is necessary that the loop be mounted in the cabinet with the terminal having the red, or red-white lead towards the rear of the cabinet. The loop lead mentioned is connected to #2 terminal on the loop terminal on the rear of the chassis.

MODEL 42-1016, CODE 121 Radio Service Bulletin No. 418

To obtain additional audio bass frequency response the condensers in the treble tone control circuit were changed and parts added. These changes were made on two different production run numbers, Run 3 and Run 4. Chassis with Run 4 change is final. These changes are as follows:

RUN 3 TONE CONTROL CHANGE

Schematic No.	Description	Original Part No.	Run 3 Part No.
(96)	Condenser	(30-4623) (.004 mfd.)	(30-4591) (.006 mfd.)
(96A)	Condenser	(30-4591) (.006 mfd.)	(30-4572) (.01 mfd.)
(97)	Condenser	(30-4622) (.002 mfd.)	(30-4582) (.003 mfd.)

RUN 4 TONE CONTROL CHANGE

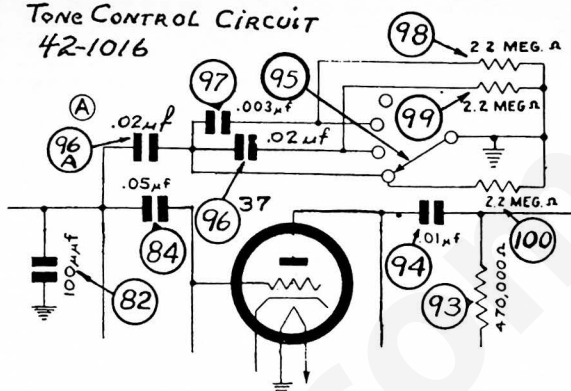
See diagram below for wiring

Remove (96) condenser, Part No. 30-4591, and replace with a .02 mfd. 400 volt, Part No. 30-4516 condenser.

Remove condenser (96A) .01 mfd., Part No. 30-4572, from its present location and connect a wire from switch contact to terminal panel lug. Change value of 96A to a .02 mfd., 400 volt Part No. 30-4516 condenser and reconnect from the plate contact of the XXFM tube socket to the No. 6 contact of 6L6G tube (Dummy Lug).

Remove the wire from the grid contact of the 37 tube socket which comes from the treble tone control wiring panel. Reconnect this wire to No. 6 contact (Dummy Lug) of the 6L6G tube socket next to the XXFM tube. Connect a 10 mfd., 25 volt condenser Part No. 30-2500 from the cathode of the 7C6 tube to ground.

TONE CONTROL CIRCUIT 42-1016



SERVICE REPLACEMENT SPINDLE KIT FOR 1942 RECORD CHANGERS

Because of material shortage it is not possible to supply the early type spindle with the large bushing as used on record changer 35-1258. A replacement kit is available making it possible to substitute the spindle and other associated parts as used in the later changers. The following is the installation procedure. See Service Bulletin 402 for reference numbers:

Remove positioning bracket from cam gear mounting bracket No. 32A and replace screw.

Remove old spindle assembly.

Remove two screws that hold No. 32A to U bracket.

Unhook spring from U bracket to cam lever.

Remove solenoid bracket and solenoid plunger bracket mounting screws.

Remove U bracket by drilling out the four rivets that hold it in place at base plate.

Mount new U bracket to base plate.

Screw eccentric washer on U bracket.

Replace screws holding No. 32A to U bracket.

Replace spring to U bracket and cam lever.

Mount new spindle assembly, Part No. 318-2839, with pin in slot in U bracket.

Locate clutch lever fork between washers on spindle assembly.

Replace solenoid bracket and solenoid core bracket screws.

Adjust changer for correct performance.

Spindle Kit for Standard Changers (Kit Part No. 45-2963)

- 1 part 218-1400 U Bracket
- 1 part 318-2839 Spindle Assembly
- 1 part 318-2838 Turntable
- 4 part W-136 Rd. Hd. Steel Mach. Screws
- 4 part W-661 Steel Hex. Nuts
- 4 part W-223 Shakeproof Lockwashers
- 1 part 217-1406 Fibre Washer
- 1 part 217-1407 Curved Washer
- 1 part 218-1525 Lockwasher
- 1 part 218-1504 Nut

Spindle Kit for Deluxe Changers (Kit Part No. 45-2964)

- 1 part 218-1400 U Bracket
- 1 part 35-2606 Spindle
- 1 part 35-2611 Turntable
- 1 part 218-1403 Spring
- 1 part 218-1406 Washer
- 1 part 218-1405 Washer
- 1 part 218-1401 Clutch
- 1 part 218-1500 Sleeve
- 1 part 218-1501 Pin
- 4 part W-136 Rd. Hd. Steel Mach. Screws
- 4 part W-661 Steel Hex Nuts
- 4 part W-223 Shakeproof Lockwashers
- 1 part 217-1406 Fibre Washer
- 1 part 217-1407 Curved Washer
- 1 part 218-1525 Lockwasher
- 1 part 218-1504 Nut