



RADIO CORPORATION PTY. LTD.

DIVISION OF ELECTRONIC INDUSTRIES LTD.

126-130 GRANT STREET, SOUTH MELBOURNE, S.C.A.

TECHNICAL BULLETIN

BULLETIN BQC-1
BULLETIN BQM-1
File:-Receivers
Vibrator.
Date: 1/6/46.
Page 1.

SUBJECT-

Type "BQC" Console Model

Type "BQM" Mantel Model

5 Tube Vibrator/Battery Operated

Superheterodyne Dual Wave Receiver

Operation is from

A 6 Volt Accumulator

This Bulletin Contains:-

1. Technical Specifications.
2. General Description.
3. Alignment Procedure.
4. Circuit Diagram.
5. Voltage Table.
6. Component Parts List.
7. Coil and IF. Transformer Connections.



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126-130 GRANT STREET, SOUTH MELBOURNE, S.C.4.

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SUBJECT-Alignment Instructions-Receiver Type "BQC" (Console Model)
Receiver Type "BQM" (Mantel Model)

EQUIPMENT:

Signal Generator.
Dummy Antenna:-
 .01MFD. Mica Capacitor.
 .0002MFD. Mica Capacitor.
 400 Ohm Non Inductive Resistor.
Output Meter.
Alignment Tool.

ALIGNMENT CONDITIONS:-

Load Impedance - 15,000 Ohms.
Output Level - 50 Milliwatts.
Volume Control - Full on (clockwise).
Tone Control - High Tone Position.
Battery Supply - 6 Volt Accumulator.

ALIGNMENT:-

Intermediate Frequency-455Kcs.

Do not use a screwdriver or alignment tool with an iron point for aligning IF. transformers. A special tool part number PM581 is obtainable from the factory, or failing this an insulated rod with a small brass blade may be used.

Tuning Range:-

Broadcast Band 540-1640Kcs.

Shortwave Band 5.8-18.5Mcs.

Set the dial pointer on the end of travel mark on the dial calibration near 550Kcs. (condenser gang plates fully meshed).

SUBJECT-Alignment Instructions-Receiver Type "BQC" (Console Model)
 Receiver Type "BQM" (Mantel Model)

Operation No.	Generator Connection	Frequency	Dummy Antenna	Instructions
<u>Turn Wave Change Switch To Broadcast Position</u>				
1.	To grid of 1M5G tube (circuit No. 80).	455Kcs.	.01MFD. Mica capacitor in series with generator.	Leave grid cap on tube. Peak 3rd IF. transformer primary and secondary.
2.	To grid of 1M5G tube (circuit No. 79).	455Kcs.	.01MFD. Mica capacitor in series with generator.	Leave grid cap on tube. Peak 2nd IF. transformer primary and secondary.
3.	To grid of 1C7G tube.	455Kcs.	.01MFD. Mica capacitor in series with generator.	Leave grid cap on tube. Gang plates full out. Peak 1st IF. transformer primary and secondary.
4.	To antenna terminal.	1400Kcs.	.0002MFD. Mica capacitor in series with generator.	Turn dial pointer to 1400 Kcs. Adjust B/cast oscillator trimmer for logging and peak B/cast aerial coil trimmer.
5.	To antenna terminal.	600Kcs.	.0002MFD. Mica capacitor in series with generator.	Turn dial pointer to 600 Kcs. Peak B/cast series padder rocking gang to and fro while adjusting.
<u>Turn Wave Change Switch to Shortwave Position.</u>				
6.	To antenna terminal.	16Mcs.	400 Ohm non inductive resistor in series with generator.	Turn dial pointer to 16-Mcs. Adjust S/wave oscillator trimmer for logging and peak S/wave aerial coil trimmer.
7.	To antenna terminal.	7Mcs.	400 Ohm non inductive resistor in series with generator.	Check tracking.

SUBJECT-Technical Specifications-Receiver Type "BQC" (Console Model)
Receiver Type "BQM" (Mantel Model)

TUBE COMPLEMENT:

Type 1C7G Converter.
Type 1M5G IF. Amplifier.
Type 1M5G IF. Amplifier.
Type 1K7G 1st Audio, AVC., and Detector.
Type 1L5G Power Output Amplifier.

INTERMEDIATE FREQUENCY: 455 Kcs.

TUNING RANGE: Broadcast 540 Kcs. (Kilocycles) to 1640 Kcs.
555M. (Meters) to 182.9 M.
Shortwave 5.8 Mcs. (Megacycles) to 18.5 Mcs.
50M. (Meters) to 16M.

CALIBRATION: Straight Line Frequency.

BATTERY SUPPLY: 6 Volt Accumulator.

BATTERY CONSUMPTION: 1.25 Amps. (does not include dial lamps).

POWER OUTPUT: .5 Watt (undistorted).

VIBRATOR: Self Rectifying, Synchronous Type.

GENERAL DESCRIPTION:

The Models "BQC" and "BQM" are 5 tube dual wave 6 volt vibrator receivers designed as console and mantel. The circuit consists of a pentagrid converter, two IF. stages, a duo diode pentode driver stage followed by a power output amplifier.

Full AVC. developed across resistors (circuit numbers 52 and 55) is applied to the converter stage on broadcast only. Approximately two thirds AVC. is applied to the two IF. stages on both bands.

Inverse feedback and bass boost is applied through the path provided by resistor (circuit number 56) and condenser (20).

The tone control which is combined with the battery switch operates in the grid circuit of the output tube and comprises circuit components 17, 19 and 95.

The filaments of the tubes are wired across the 6 volt supply in a series parallel circuit which provides maximum protection for the remaining tubes in the event of a filament open circuiting. Bias is determined by the position of the tube in the filament circuit.

High tension is supplied from a 6 volt synchronous self rectifying vibrator in conjunction with a transformer (circuit number 79) and a 6 volt accumulator.



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BULLETIN BQM-1

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SUBJECT-Component Parts List-Electrical-Receiver Type "BQC" (Console Model)
Receiver Type "QBM" (Mantel Model)

Circuit No.	Part Name	Tol.±	Rating	Radio Corp. Part No.
1.	1MFD Paper Condenser	20%	200V	PC182
2.	1MFD Paper Condenser	20%	200V	PC182
3.	.1MFD Paper Condenser	20%	400V	PC103
4.	.5MFD Paper Condenser	20%	200V	PC121
5.	.5MFD Paper Condenser	20%	200V	PC121
6.	.1MFD Paper Condenser	20%	200V	PC218
7.	.1MFD Paper Condenser	20%	200V	PC218
8.	.05MFD Paper Condenser	20%	400V	PC109
9.	.05MFD Paper Condenser	20%	400V	PC109
10.	.05MFD Paper Condenser	20%	400V	PC109
11.	.05MFD Paper Condenser	20%	200V	PC102
12.	.05MFD Paper Condenser	20%	200V	PC102
13.	.05MFD Paper Condenser	20%	200V	PC102
14.	.05MFD Paper Condenser	20%	200V	PC102
15.	.02MFD Paper Condenser	20%	400V	PC111
16.	.01MFD Paper Condenser	20%	600V	PC140
17.	.006MFD Paper Condenser	20%	600V	PC217
18.	.004MFD Paper Condenser	20%	600V	PC221
19.	.002MFD Paper Condenser	20%	600V	PC112
20.	.002MFD Paper Condenser	20%	600V	PC112
21.				
22.				
23.	.004MFD Mica Condenser	10%	2000V	PC143
24.	.0062MFD Mica Condenser	5%	1000V	PC666
25.	.001MFD Mica Condenser	10%	1000V	PC108
26.	.0003MFD Mica Condenser	10%	1000V	PC212
27.	.0003MFD Mica Condenser	10%	1000V	PC212
28.	.0002MFD Mica Condenser	10%	1000V	PC124
29.	.00005MFD Mica Condenser	10%	1000V	PC141
30.	.00005MFD Mica Condenser	10%	1000V	PC141
31.				
32.	500MFD Electrolytic Condenser	20%	12VP	PC295
33.	500MFD Electrolytic Condenser	20%	12VP	PC295
34.	24MFD Electrolytic Condenser	20%	350VP	PC276
35.	16MFD Electrolytic Condenser	20%	350VP	PC275
36.	8MFD Electrolytic Condenser	20%	350VP	PC280
37.				
38.				
39.	Oscillator Trimmer W.W. (B/cast.)			PC663
40.	Oscillator Trimmer W.W. (S/wave.)			PC663
41.	Antenna Trimmer (B/cast.)			PC250
42.	Antenna Trimmer (S/wave.)			PC224

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BULLETIN BQM-1
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SUBJECT-Voltage Table-Receiver Type "BQC" (Console Model)
Receiver Type "BQM" (Mantel Model)

EQUIPMENT:-

DC. Volt Meter-1,000 Ohms per volt with 0-250 and 0-10 volt scales.
DC. Ammeter-0-2 amp scale.

CONDITIONS OF TEST:-

All voltages measured from tube socket contacts to chassis.
Receiver tuned to 1,000 Kcs. Volume control full on (clockwise) no signal. Accumulator voltage 6 volts.

Tube	Plate	Screen	Grid	Osc. Plate
1C7G	150V.	35V.	-	90V.
1M5G	155V.	17V.	-	-
1M5G	155V.	57V.	2V.	-
1K7G	35V.	47V.	2V.	-
1L5G	150V.	155V.	4V.	-

NOTE: Grid voltages derived from voltage drop across filaments.

BATTERY CONSUMPTION:-1.25 Amps (does not include dial lamps).

SUBJECT-Component Parts List-Electrical-Receiver Type "BQC" (Console Model)
 Receiver Type "BQM" (Mantel Model)

Circuit No.	Part Name	Tol.±	Rating	Radio Corp. Part No.
43.	Variable Series Pad Condenser (B/cast.)			PC164
44.	2 Gang Variable Condenser			PC636
45.	Hash Plate Condenser			PC214
	Mica Strip			29/216
	Hash Plate			19A/47
	Holding Down Plate			19B/47
49.				
50.				
51.	1.75 Megohm Carbon Resistor	10%	$\frac{1}{2}$ watt	PR248
52.	1.75 Megohm Carbon Resistor	10%	watt	PR248
53.	1.75 Megohm Carbon Resistor	10%	watt	PR248
54.	1.75 Megohm Carbon Resistor	10%	watt	PR248
55.	1 Megohm Carbon Resistor	10%	watt	PR246
56.	1 Megohm Carbon Resistor	10%	watt	PR246
57.	500,000 Ohm Carbon Resistor	10%	watt	PR245
58.	500,000 Ohm Carbon Resistor	10%	watt	PR245
59.	500,000 Ohm Carbon Resistor	10%	watt	PR245
60.	250,000 Ohm Carbon Resistor	10%	watt	PR249
61.	250,000 Ohm Carbon Resistor	10%	watt	PR249
62.	100,000 Ohm Carbon Resistor	10%	watt	PR103
63.	70,000 Ohm Carbon Resistor	10%	watt	PR256
64.	50,000 Ohm Carbon Resistor	10%	watt	PR160
65.	50,000 Ohm Carbon Resistor	10%	watt	PR160
66.	20,000 Ohm Carbon Resistor	10%	watt	PR166
67.	10,000 Ohm Carbon Resistor	10%	watt	PR164
68.	10,000 Ohm Carbon Resistor	10%	watt	PR164
69.	5,000 Ohm Carbon Resistor	10%	watt	PR250
70.	500,000 Ohm Volume Control			PR380
71.				
72.	3rd IF. Transformer			PT387
73.	Antenna Transformer (B/cast.)			PT381
74.	Antenna Transformer (S/wave.)			PT463
75.	Oscillator Transformer (B/cast.)			PT414
76.	Oscillator Transformer (S/wave.)			PT464
77.	1st IF. Transformer			PT386
78.	2nd IF. Transformer			PT386
79.	Power Transformer			PT455
80.	Filter Choke (500 Ohms)			PT108
81.	Hash Choke			PT111
82.	Midget Hash Choke			PT439
83.	RF. Choke ("B" Supply)			PT109
84.	RF. Choke ("B" Supply)			PT109
85.	Filter Choke (Filament Supply)			PT112
86.				



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File:-Receivers
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SUBJECT-Component Parts List-Mechanical-Receiver Type "BQM" (Mantel Model)

Circuit No.	Part Name	Radio Corp. Part No.
117.	6 Pin Vibrator Socket	A102/58
118.	Junction Strips (9)	A103/509
119.	1 Pin Sockets (3)	
	Bottom Plate	18/96
	Top Plate	19/96
	Contact	15/58-2
120.	Dial Drum Assembly	A136/87
121.	Dial Drive Spindle Assembly	A109/295
122.	Vibrator Cover Can	21/47
123.	Power Transformer Can Lid	11/295-2
124.	Battery Clip Positive-Red	3/245-1
125.	Battery Clip Negative-Black	3/245-2
126.	Metal Chassis	A101/616
127.	Hash Shield Cover Plate	4/216
128.	Valve Shield Earth Clips (3)	22/300
129.	Brackets-Condenser Mounting	45/409-1 (front) 45/409-2 (rear)
130.	Rubber Grommets-Soft Rubber	64/30A
134.	IF. Coupling Shield	2/215
137.	Terminal Strip Assembly (3)	A113/246
	Dial Reading-Glass	7/616
	Diffuser Plate-Glass	8/616
	Dial Frame Assembly	A103/616
	Dial Pointer Assembly	A104/616
	Control Extensions (2)	44/81
	Control Knobs (4) less buttons and springs	40/81-1
	Control Knob Springs (4)	42/81
	Control Knob Button Tuning	47/81A
	Control Knob Button Tone	47/81C
	Control Knob Button Volume	47/81B
	Control Knob Button Wave Change	47/81D
	Cabinet	24/216-1
	Chassis-Cabinet Mounting Screws (4)	96/47
	Cabinet Strengthening Bar	17/215
	Dial Lamp Socket Assembly	A108/246



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BULLETIN BQC-1

BULLETIN BQM-1

File:-Receiver
Vibrator.

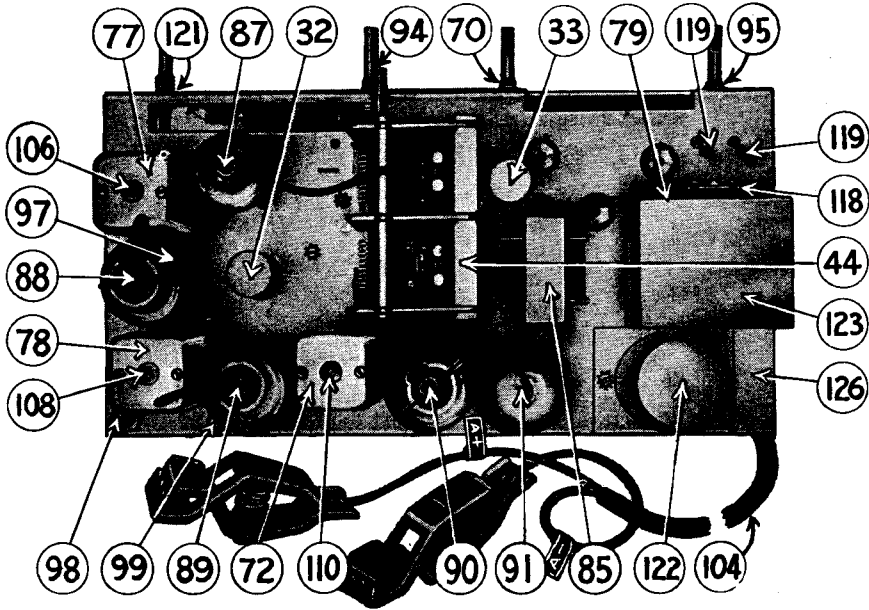
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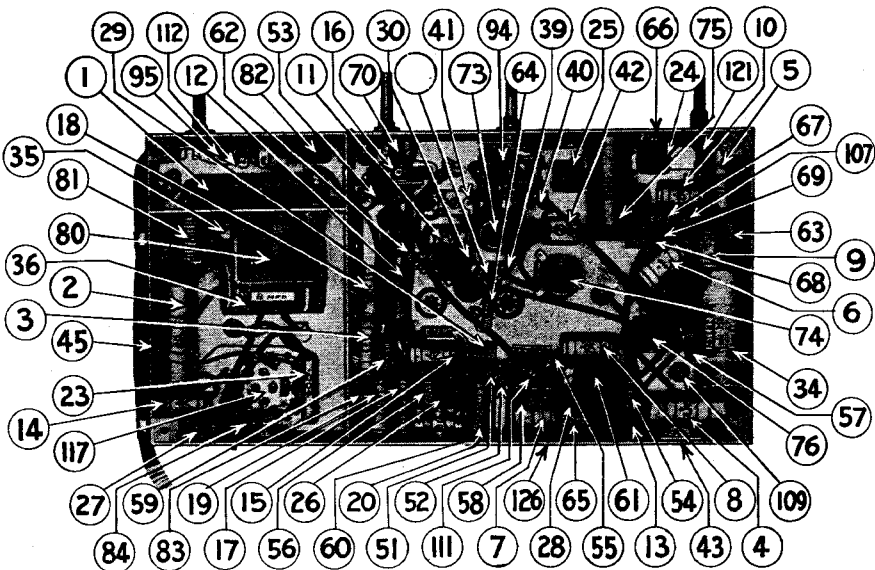
SUBJECT-Component Parts List-Electrical-Receiver Type "BQC" (Console Model)
Receiver Type "BQM" (Mantel Model)

Circuit No.	Part Name	Tol±.	Rating	Radio Corp. Part No.
87.	Type 1C7-G Tube			
88.	Type 1M5-G Tube			
89.	Type 1M5-G Tube			
90.	Type 1K7-G Tube			
91.	Type 1L5-G Tube			
92.				
93.	8 Pin Midget Socket			PM532
94.	Wave Change Switch			PM635
95.	Tone Control and Battery Switch			PM279
96.	6 Pin Synchronous Vibrator			PM413
97.	Valve Shields (3) (Goat Type)			PM217
98.	Aerial Terminal			PM306
99.	Earth Terminal			PM306
100.	Pilot Lamps (2)		6.3V .25A	PM678
101.	Short Wave Indicator Lamp		6.3V .25A	PM678
				(Console only)
102.	Permanent Magnet Dynamic Speaker			PM633
	15,000 Ohm Input			(Console only)
	Permanent Magnet Dynamic Speaker			PM631
	15,000 Ohm Input			(Mantel only)
103.	4 Pin Amphenol Socket			PM125
				(Console only)
104.				
105.	Dial Light Switch			PM395
106.	1st IF. Primary Adj. Screw			
107.	1st IF. Secondary Adj. Screw			
108.	2nd IF. Primary Adj. Screw			
109.	2nd IF. Secondary Adj. Screw			
110.	3rd IF. Primary Adj. Screw			
111.	3rd IF. Secondary Adj. Screw			
112.	Fuse (1 strand of .012 tinned copper wire)			

SUBJECT-Chassis-Top and Bottom Views-Receiver Type "BQC" (Console Model)
 Receiver Type "BQM" (Mantel Model)



Model BQ Top View



Model BQ Bottom View

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 BULLETIN BQM-1
 File:-Receivers
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SUBJECT-Component Parts List-Mechanical-Receiver Type BQC (Console Model)

Circuit No.	Part Name	Radio Corp. Part No.
117.	6 Pin Vibrator Socket	A102/58
118.	Junciton Strips (9)	A103/509
119.	I Pin Sockets (3)	
	Bottom Plate	18/96
	Top Plate	19/96
	Contact	15/58-2
120.	Dial Drum Assembly	A136/87
121.	Dial Drive Spindle Assembly	A109/295
122.	Vibrator Cover Can	21/47
123.	Power Transformer Can Lid	11/295-2
124.	Battery Clip Positive-Red	3/245-1
125.	Battery Clip Negative-Black	3/245-2
126.	Metal Chassis	A101/616
127.	Hash Shield Cover Plate	4/216
128.	Valve Shield Earth Clips (3)	22/30C
129.	Brackets-Condenser Mounting	45/409-1 (front) 45/409-2 (rear)
130.	Rubber Grommets-Soft Rubber	64/30A
134.	IF. Coupling Shield	2/215
137.	Terminal Strip Assembly (3)	A113/246
	Dial Reading-Glass	48/295
	Diffuser Plate-Glass	12/285
	Dial Frame Assembly	A101/285
	Dial Pointer Assembly	A108/285
	4 Pin Amphenol Socket Cover	216/224
	Control Extensions (4)	6/281
	Control Knobs (4)	53/81
	Control Knob Springs (4)	17/81
	Console Cabinet Type A42	A106/221
	Chassis Mounting Foot L.H.	A103/215-1
	Chassis Mounting Foot R.H.	A103/215-2
	Pilot Lamp Socket Assembly (2)	A102/231



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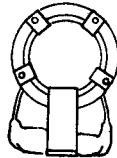
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BULLETIN BQM-1
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SUBJECT-Coil & IF. Transformer Connections-Receiver Type "BQC" (Console Model)
Receiver Type "BQM" (Mantel Model)

A.V.C.



Earth

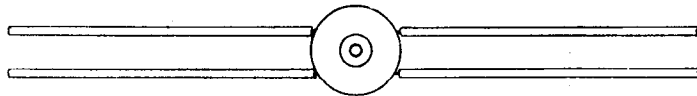
(Outside secondary) Grid

Antenna (Inside primary)

ANT. TRANS. B/CAST.

(Padder cond.) Red

Black (Padder cond.)



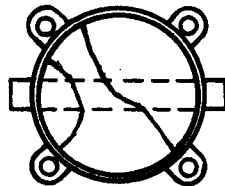
(1C7G oscl. plate cond.) Blue

Green(1C7G oscl. grid)

OSCL. COIL B/CAST.

Earth

Antenna



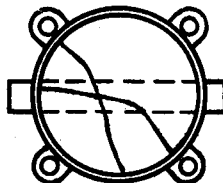
Earth

Grid

ANT. TRANS. S/WAVE.

1C7G oscl. grid

Series padder



1C7G oscl. plate cond.

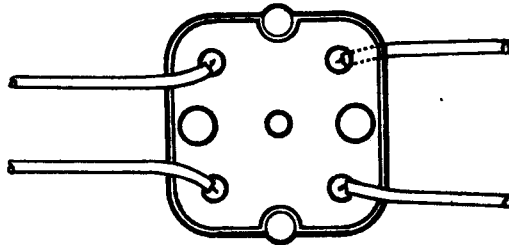
Series padder

OSCL. COIL S/WAVE.

SUBJECT-Coil & IF. Transformer Connections-Receiver Type "BQC" (Console Model)
Receiver Type "BQM" (Mantel Model)

(Junction of circuit numbers
6, 52, and 55) Black

Green (1M5G grid)



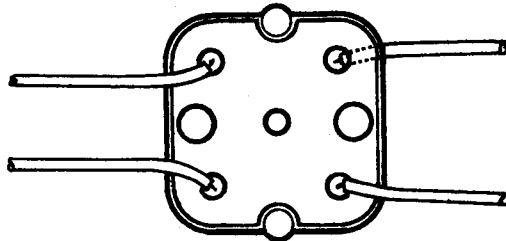
(1C7G plate) Blue

Red (Junction of circuit
numbers 9 and 69)

1ST IF. TRANS.

(Junction of circuit numbers
6, 52 and 55) Black

Green (1M5G grid)



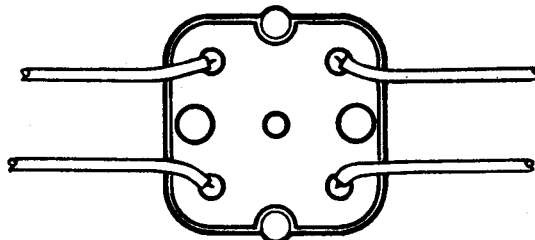
(1M5G plate) Blue

Red (B+)

2ND IF. TRANS.

(Junction of circuit numbers
28 and 65) Black

Green (1K7G diode)



(1M5G plate) Blue

Red (B+)

3RD IF. TRANS.



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BULLETIN: BQC-2.

BULLETIN- BQM-2.

File: Receivers
Vibrator.

Date: 3/7/47.

Page 1.

SUBJECT-Side-band Flutter on 16 Megacycles-Model "BQC"

The wiring of the tube filaments in the Model "BQC" receiver has been modified to overcome a slight side-band flutter on 16 megacycles with signal inputs higher than 500 micro-volts.

The flutter is caused by the 1L5G output tube plate and screen currents modulating the 1C7G tube filament.

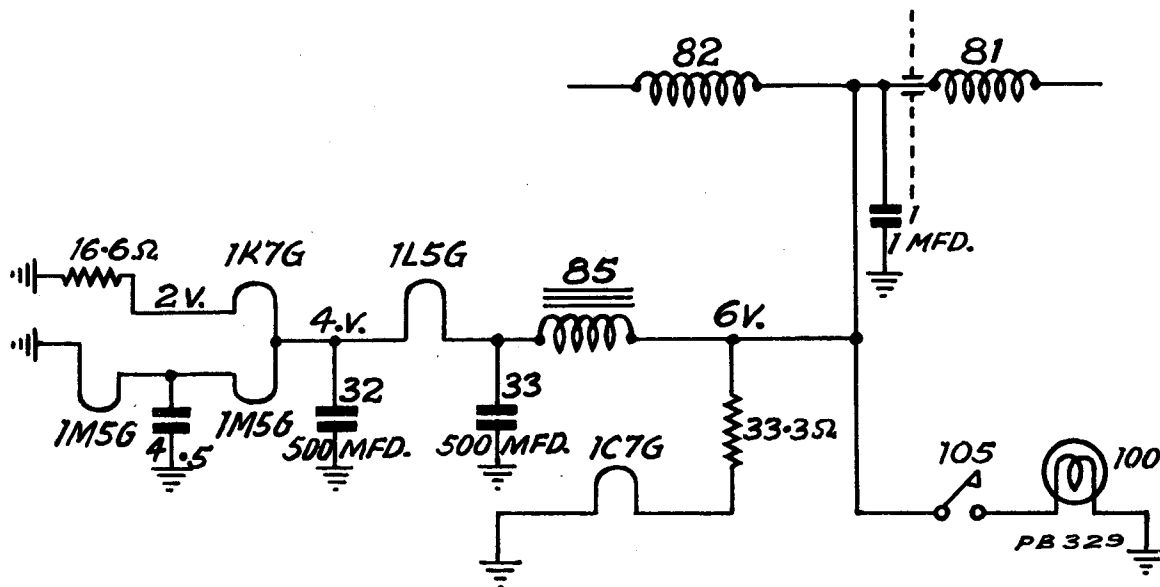
The flutter has been eliminated as follows:

- (a) The 1C7G tube filament in the filament wiring string is substituted with a 16.6 ohm resistor. The .5MFD by-pass condenser circuit No. 5 being deleted.
- (b) A 33.3 ohm resistor is connected with the A+ side of the laminated filament choke (circuit No. 85) in series with the 1C7G tube filament.

New parts required:

- 1 off 16.6 ohm 1 watt wire wound resistor Tol. $\pm 5\%$ Part No. PR374.
- 1 off 33.3 ohm 1 watt wire wound resistor Tol. $\pm 5\%$ Part No. PR506.

A circuit of the filament wiring with the modification is shown below.





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BULLETIN BQC-3.

BULLETIN BQM-3.

File: Receivers
Vibrator.

Date: 15/7/47.

Page 1.

TECHNICAL BULLETIN

SUBJECT—Iron Cored Oscillator Coil.

A variable iron cored oscillator coil is being used in place of the solenoid wound type on future production runs of the Model "BQC" receiver.

The change requires a new alignment procedure as detailed below.

Part numbers of the new parts and a revised circuit are shown on the following page.

<u>Alignment Procedure:</u>	Load Impedance	: 15,000 ohms.
	Output Level	: 50 Milliwatts
	Volume Control	: Full on (Clockwise)
	Tone Control	: High Tone Position

Intermediate Frequency: 455Kc.

Oper. No.	Generator Connection	Generator Frequency	Dummy Antenna	Instructions
<u>Turn Wave Change Switch to B/cast Position.</u>				
1.	To control grid of 1M5G tube (circuit No. 89)	455 Kc.	.01MFD. mica capacitor in series with generator	Leave grid clip on tube. Peak 3rd IF. trans. primary and secondary for max. output.
2.	To control grid of 1M5G tube (circuit No.88)	455 Kc.	.01MFD. mica capacitor in series with generator	Leave grid clip on tube. Peak 2nd IF. trans. primary and secondary for max. output.
3.	To control grid of 1C7G tube	455 Kc.	.01MFD. mica capacitor in series with generator	Leave grid clip on tube. Gang plates full out. Peak 1st IF. trans. primary and secondary for max. output.
4.	To antenna terminal	600 Kc.	200MMFD. mica capacitor in series with generator	Turn gang and dial pointer to 600 Kc. Peak B/cast. oscl. coil inductance trimmer (iron core) for max. output. Rock the gang through the signal while adjusting.
5.	To antenna terminal	1400 Kc.	200MMFD. mica capacitor in series with generator	Turn gang and dial pointer to 1400 Kc. Adjust B/cast oscl. coil trimmer cond. for logging and peak B/cast aerial coil trimmer for max output.
6.	Repeat operations Nos. 4 and 5.			
<u>Turn Wave Change Switch to S/wave position.</u>				
7.	To antenna terminal	16 Mc.	400 ohm non-inductive resistor in series with generator	Turn gang and dial pointer to 16 Mc. Adjust S/wave oscl. coil trimmer cond. for logging and peak S/wave aerial coil trimmer for max. output.
8.	To antenna terminal	7 Mc.	400 ohm non-inductive resistor in series with generator	Turn gang and dial pointer to 7 Mc. and check tracking.

SUBJECT—Iron Cored Oscillator Coil.

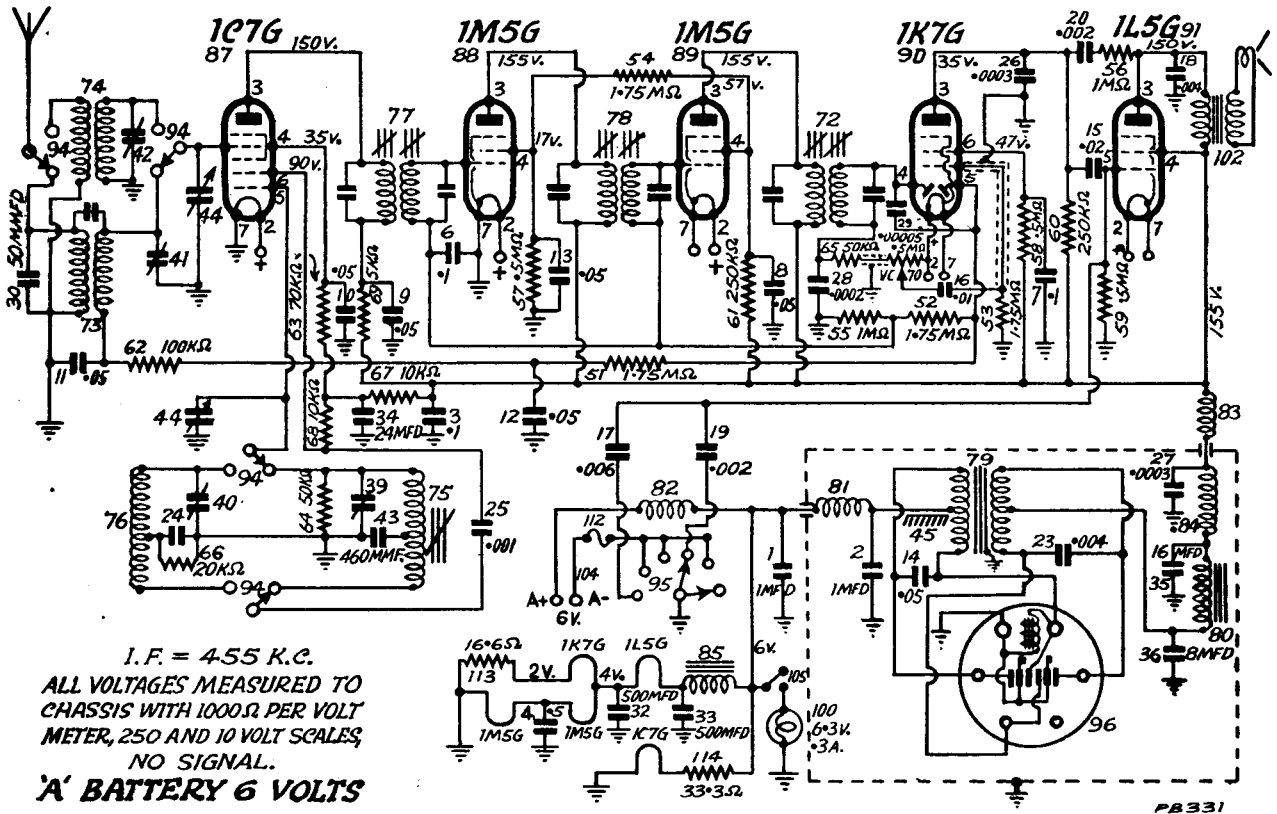
New Parts

Iron cored oscillator coil (includes iron core)
 Series pad condenser 460MMFD. mica (tol. $\pm 2\frac{1}{2}\%$)

Part No.

PT793
 PC684

Revised Circuit



Connections for new oscl. coil part no. PT793.

