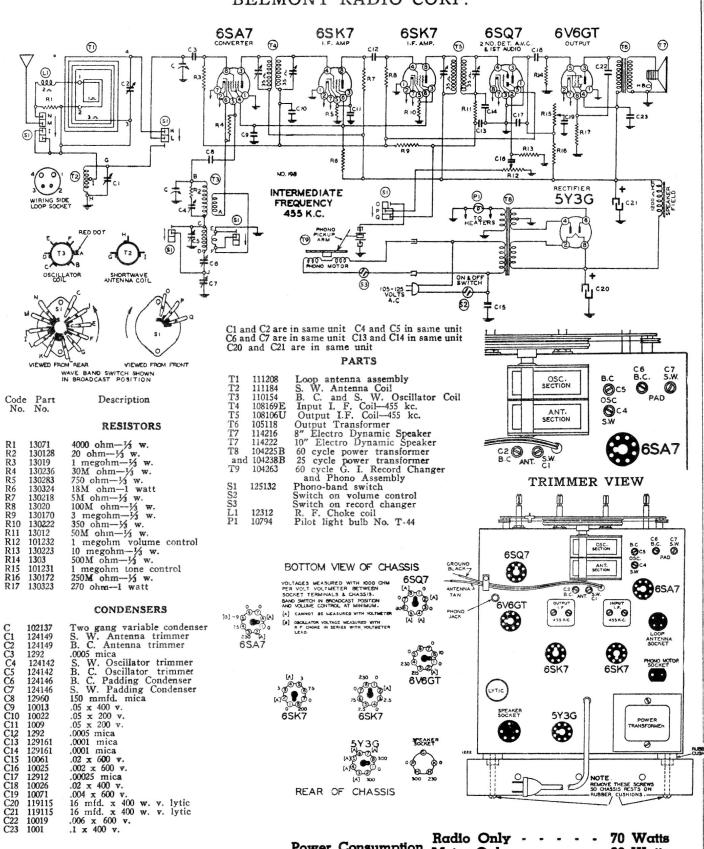
BELMONT RADIO CORP.



REAR OF CHASSIS

FOR GENERAL INSTRUMENT 102 RECORD CHANGER, SEE RIDER'S "AUTOMATIC RECORD CHANGERS AND RECORDERS".

Radio Only -70 Watts Power Consumption Motor Only 20 Watts - - - - - 2.1 Watts Undistorted Power Output Sensitivity for 500 Milliwatt Output: 15 Microvolts Average Selectivity - 51 KC Broad at 1000 Times Signal at 1000 KC Tuning Frequency Range Broadcast Band - 530 to 1600 KC Shortwave Band - 5.46 to 18.3 MC

Intermediate Frequency Speaker 8 in. Electro Dynamic or 10 in. Electro Dynamic

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ALIGNMENT PROCEDURE

- Volume control—Maximum all adjustments.
- Connect radio ground to ground post of signal generator with a short heavy lead.
- · Connect dummy antenna value in series with generator output lead.
- Connect output meter across primary of output transformer.
- · Allow chassis and signal generator to "heat up" for several minutes

The following equipment is required for aligning:

- An all wave signal generator which will provide an accurately calibrated signal at the test frequencies as listed.

- Output indicating meter.
 Non-metallic screwdriver.
 Dummy antennas—.1—mf., 200 mmf., 400 ohms.

BAND	SIGNAL GE Frequency Setting	ENERATOR Dummy Antenna	Connection to Radio	Position of Band Switch	Variable Condenser Setting	Trimmers Adjusted (In Order Shown)	Trimmer Function	Adjustment
I. F.	455 Kc.	.1 MFD	Grid of 6SA7 Mixer	Broadcast	Rotor full open (Plates out of mesh)	Trimmers on top (See Top View)	Input and Output L. F.	Adjust to maximum output
SHORT WAVE BAND (See Note A)	17 Mc.	400 Ohms	External Antenna and Ground	Short Wave	Set Dial at 17 Mc.	Trimmer C4	Short Wave oscillator	Adjust to maximum output
	17 Mc.	400 Ohms	External Antenna and Ground	Short Wave	Set Dial at 17 Mc.	Trimmer C1	Short Wave antenna	Adjust to maximum output
	6 Mc.	400 Ohms	External Antenna and Ground	Short Wave	Set Dial at 6 Mc.	Trimmer C7	Short Wave oscillator series pad	Adjust to maximum rock dial. (See note "C")
BROAD- CAST BAND (See Note A)	1600 Kc.	200 mmf.	Grid of 6SA7	Broadcast	Rotor full open (Plates out of mesh)	Trimmer C5	Broadcast oscillator	Adjust to maximum output
	530 Kc.	200 mmf.	Grid of 6SA7	Broadcast	Rotor full closed	Trimmer C6	Broadcast oscillator series pad	Adjust to maximum output
LOOP ALIGN- MENT (See Note B)	1400 Kc.	200 mmf.	External Antenna and Ground	Broadcast	Set Dial at 1400 Kc.	Trimmer C2 (See Top View)	Broadcast antenna	Adjust to maximum output
	600 Kc.	200 mmf.	External Antenna and Ground	Broadcast	Set Dial at 600 Kc.	Trimmer C6 (See Top View)	Broadcast oscillator series pad	Adjust to maximum output

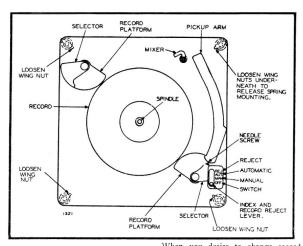
NOTE "A"—The signal generator is connected to the "ANT." and "GND" leads when aligning the Short Wave Band and to the grid of the 68A7 tube and ground terminal when setting the Broadcast Band oscillator end frequencies, (1600 and 530 K. C.).

The loop antenna should be connected to the radio when making these adjustments. NOTE "B"—Loop alignment is made with the chassis mounted in the cabinet and the loop antenna connected. The signal generator is connected to the "ANT." and "GND." leads. NOTE "C"—Turn the dial back and forth slightly (rock) and adjust trimmer until the peak of greatest intensity is obtained.

Attenuate the signal from the signal generator to prevent the leveling-off action of the AVC.

After each band is completed, repeat the procedure as a final check.

Automatic Record Changer--Operating Instructions



General

This Record Changer will play automatically a series of standard 10- or 12 inch records of the type generally available today, or records of any size up to 12 inches changed manually. Changer does not require any adjustment by operator for playing different size records. Stacks of mixed sizes may be played but this is not recommended or guaranteed. Records of the last few years with the standard eccentric or spiral finishing groove will operate the automatic mechanism

Controls and Moving Mechanism

Index and Record Reject Lever: This | matically. This lever is located near the right front corner of the phonograph with its index plate marked for four positions-

OFF.-MAN.-AUT.-REJ.

When you desire to change record selections manually, this lever should be set in the "MAN." (MANUAL) posi-

To play a series of records, the lever should be set at the "AUT." (AUTO-MATIC) position.

To reject a record being played, or to start the record-changing cycle, in case the record just played does not have the standard eccentric or spiral stopping groove; simply push the lever to the "REJ." (REJECT) position and let go. The pickup arm will raise up and swing outwards and the next record

Keep the lever in its "MAN:" position when not actually playing records auto-

To start the turntable set the switch to the "MAN." or "AUT." position. To stop the turntable, set the switch to the

Manual Operation

- Insert Needle in pickup and clamp securely with needle screw protruding from front of pickup arm.
- 2. Lift record platforms and rotate away from turntable.
- 3. Place record to be played on turn-
- Advance index and reject lever to
- 5. Place needle on blank edge of record and push pickup arm gently toward center to start needle in groove.
- 6. When playing is completed lift pickup arm slightly to clear record and replace same on rest.
- Return index and reject lever to "OFF"

Automatic Operation

- 1. Insert long playing needle in pickup and clamp securely with needle screw protruding from front of pickup arm. Return arm to rest.
- 2. Rotate record platforms to index position (locked in place by pin).
- 3. Place records to be played over the turntable spindle and on the record platforms.
- Fash index and reject lever to "REJ." position and release.

The first record will then feed and play thru, followed by the balance of the records.

- .5. After last record has been played, allow pickup arm to reset on record. Return arm to rest and push lever to
- 6. Raise and turn record platforms away from turntable.
- 7. Remove records carefully from Be careful not to strain turntable.

CAUTION-This Changer is designed and built to play standard 10- and 12-inch records in good condition automatically. To obtain the benefit of satisfactory operation it is necessary that instructions be followed explicitly and in no case use force, as this may cause damage.

Mechanism

Do not rotate turntable in reverse direction or bend or strain turntable spindle when loading or unloading records.

Do not overload with records. The maximum load is either:

- 10 12 inch records
- 12 10 inch records
- 10 10 and 12 inch records mixed

Do not touch pickup arm when it is in motion during automatic function or stop the mechanism until pickup arm reaches playing position and is returned to rest provided.

Do not move platforms by selector. Always raise and turn by hub of record platform.

Records

Do not use warped records; records with rough, square, or uneven edges; records that are extra thin or extra thick.

Do not use other than standard 10 inch or 12 inch records.

Do not leave records on record platforms. This will cause warpage.

Needles

Single-playing needles may be used for manual operation, but they are somewhat inconvenient.

Multiple-playing needles are essential for automatic operation to conserve record life, as well as being a convenience for manual operation.

NEVER put a needle into pickup, once it has been removed, since this will result in unnecessary wear on the records-many times that resulting from normal use.