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MARCONI
STEREOPHONIC SOUND
INSTRUCTION  BOOK

CANADIAN MARCONI COMPANY (U.S.A.) INC.

MODEL 3602

OPERATING INSTRUCTIONS FOR * MARCONI SOLID STATE STEREOPHONIC AM-FM PHONOGRAPH COMBINATION

This * Marconi stereophonic high-fidelity radio-phonograph is a high quality 29 Transistor instrument which will reproduce standard AM broadcasts and true high-fidelity FM broadcasts. This model is equipped with a stereo detector for reception of stereophonic FM broadcasts. It will also reproduce faithfully and compatibly both standard (monaural) and stereophonic records. Six loudspeakers assure full audible frequency response.

The Record Changer will play automatically any number of records up to 6. Records of 7", 10" or 12" diameter may be played at 16 $\frac{2}{3}$, 33 $\frac{1}{3}$, 45 or 78 R.P.M.

The changer may be stopped and started without rejecting the record being played and records can be played manually as on a single record player. A diamond LP stylus point is used to provide long life and low record wear.

POWER SUPPLY

This instrument is manufactured for 60 cycles, 115 volts AC. Before connecting the line plug, make sure that the current supply is suitable. Do not, under any circumstances, connect this instrument to a source of direct current or to alternating current of a frequency other than the one specified at the rear of the receiver.

NOTE : If a slight hum is heard when the receiver is operated, reverse AC plug in its socket.

ANTENNAE

- AM — Internal Iron Core Loop.
- FM — Internal Antenna.

If an external FM antenna is required, connect as follows :

1. Loosen two screws on terminal strip located at rear of cabinet.
2. Disconnect internal FM antenna leads.
3. Connect external FM antenna to terminal strip and tighten screws.

FM ANTENNA SELECTOR SWITCH

This switch is located at rear of cabinet. When the internal antenna is used the switch should be in "internal" position. When an external antenna is used the switch should be in "external" position. In weak signal area better reception is obtained with an external antenna and the switch in "internal" position.

PUSH - BUTTONS

- | | | |
|----|-----------|--|
| 1. | ON-OFF | Power switch. |
| 2. | FM STEREO | For reception of "FM" stereophonic broadcasts. |
| 3. | FM | For "FM" reception. |
| 4. | AM | For standard radio reception. |
| 5. | PHONO | For stereophonic or standard record reproduction. |
| 6. | TAPE P/B | For tape recorder play back, Jacks accessible at rear. |

CONTROLS

AM-FM TUNING

This control is used to tune either AM or FM stations depending on which push-button is used. AM tuning range is from 540 to 1600 kilocycles. FM tuning range is from 88 to 108 megacycles.

AFC SWITCH

For "FM" radio reception with Automatic Frequency Control.

BALANCE

Clockwise rotation of the balance control increases the output of the right channel and decreases that of the left channel. Reverse rotation will have the opposite effect. Balance indicator lights on control panel visually indicates balance.

VOLUME

Clockwise rotation of the volume control will increase the output of both channels at the same time.

TREBLE

Clockwise rotation of the treble control will boost the high frequencies on both channels. Reverse rotation provides high frequency cut.

BASS

Clockwise rotation of the bass control will boost the low frequencies on both channels. Reverse rotation provides low frequency cut.

RADIO OPERATION

To operate FM-STEREO, FM, or AM radio :—

1. Push in the button for the function desired.
2. Push the ON-OFF button to "ON".
3. Turn the volume control slightly clockwise.
4. Tune in the desired station.
5. Adjust the VOLUME, BALANCE, BASS and TREBLE controls for the desired loudness and tone quality.

NOTE : To avoid interference between functions only the ON-OFF button and one other button should be depressed at the same time.

AUTOMATIC FREQUENCY CONTROL

FM broadcasting by its very nature, eliminates almost all natural and man-made static. However, the characteristic of FM which makes this possible, also makes tuning requirements more critical. The automatic frequency control (AFC) circuit overcomes this critical tuning; it ensures proper tuning even if manual tuning is not accurately done.

The A.F.C. circuit performs the further function of overcoming any tendency of the FM tuner to drift. In order to take maximum advantage of the benefits of A.F.C., it is suggested that the fine tuning be done with the switch in the "AFC/OFF" position. When the switch is then turned to "AFC/ON" the A.F.C. circuit will improve the tuning. This procedure is especially recommended in those cases where a weak station is found close to a strong station. Under these conditions the A.F.C. may tend to reach for the strong station, and completely skip over the weak station. If the weak station is tuned with the A.F.C. cut out, the A.F.C. will usually lock it in as soon as it is turned on.

PHONOGRAPH OPERATION

The Record Changer is supplied with a short record spindle and adaptor for playing records manually. For automatic playing, a stepped record spindle for 10" and 12" records and a large record spindle for 7", 45 RPM records are supplied.

MANUAL

1. Turn the receiver "ON". Turn the volume control slightly clockwise and push the button marked "phono". The "phono" position is adapted to either standard or stereo records.
2. Set the stylus lever so that the correct stylus will engage the record. 45, 33 $\frac{1}{3}$ and 16 $\frac{2}{3}$ R.P.M. records will normally use the "S" stylus. 78 R.P.M. records will use the "78" stylus.
3. Move the speed change control to the correct speed.
4. Place the short record spindle in position. If playing 45 R.P.M. records place the large hole adaptor over the short spindle.
5. Move the record platform to its rear position.

6. Place the record on the turntable, release the pickup arm clip, switch on by "Manual Control" and place the pickup arm on the record.

AUTOMATIC OPERATION

1. Proceed as in 1, 2 and 3 above.
2. Place the stepped or the large record spindle in place according to the type of record being played.
3. Set the record platform to its rear position for 12" records and forward for 10" records. For 7" records, platform position is immaterial.
4. Place any number of records up to six, of the same size and speed on the records spindle. Release the pickup arm clip and switch on by "AUTO" control.

TO REMOVE RECORDS

When the unit has stopped after playing records automatically, remove the record spindle and lift the records off. 7", 45 R.P.M. records with the large centre hole may be removed by placing the thumbs on the spindle top and lifting the records with the fingers.

TO REJECT A RECORD

To reject a record being played, move the auto control to reject. The pickup will return to its rest position when playing one record, when playing a number of records automatically, operation of the "REJECT" will cause the pickup to rise, return to its rest and the next record to drop, the pickup will then commence to play it.

TO STOP

To stop, leaving the pickup on the record, move the "Manual" control to "OFF". To restart move the "Manual" control to "ON". This feature is useful for temporary stops. To stop the unit with the pickup arm on its rest, move the "AUTO" control to "OFF". The pickup arm will rise, return to its rest and the motor switch off. To stop for a long period the latter stop procedure should always be used.

POWER MEMORY

A useful feature that permits automatic shut-off of the receiver has been incorporated in the record changer. With the changer in operation, push in the OFF-ON switch to "off" position (on the radio control panel) and the receiver will continue to operate until the changer completes the record. It will then turn itself "off" and will also turn "off" the radio receiver. The receiver may be turned "off" at any time by moving the changer control to "OFF".

TAPE OPERATION

Four jacks are available at the back of the cabinet to plug in either a Stereo or Monaural. Tape Recorder. To operate tape playback, plug tape recorder output into "Tape Playback" jacks, push tape playback button and adjust the volume, balance and tone controls as required. To tape AM, FM Stereo, or record programs, plug the tape recorder input into "Tape Record" jacks. For stereo recording both jacks are used. For monaural recording either jack may be used. To monitor the program content adjust the volume control to the level desired. A signal of approximately 250 millivolts at 100,000 ohms is available on AM or FM radio and approximately 100 millivolts on phono.

SATELLITE SPEAKERS

Provision is made at the rear of the receiver to connect satellite speaker units. This will permit the reproduction of the left and/or right midrange and high frequencies of the stereo system outside the main cabinet. When satellite speakers are connected, the internal midrange and tweeter speakers are automatically disconnected. These speakers reproduce only the frequencies above 200 cycles, so the satellite units may be small (4" diameter) speakers.

OPERATION OF A SATELLITE SPEAKER UNIT

A better stereophonic reproduction can be achieved through the following procedure :

- 1 Plug satellite units in speaker receptacles, at the rear of the receiver.
- 2 Place satellite units approximately 4 to 6 feet away from master unit and along the same wall if possible. Now play a record and adjust balance for best stereophonic effect at your listening position.

FULL RANGE REMOTE SPEAKERS

Provision is also made at the rear of the receiver to connect remote speaker units. This will permit full frequency range reproduction outside the main cabinet. When remote speakers are connected the internal speakers are still connected but a drop in output will be noticed.

Remote speaker impedance should be 6 ohms minimum.

IMPORTANT

You will find enclosed your Guarantee and Registration Card. The Registration Card should be detached from the Guarantee and all particulars filled in and mailed to us within five (5) days from the date you purchase the instrument. Do not neglect to mail this card, otherwise you will be unable to obtain replacement on any parts that may become defective within the guarantee period.

In the event of any defect developing in this instrument, communicate with your dealer immediately.

PLEASE DO NOT DETACH THIS CARD IF THE INSTRUMENT IS ONLY
ON DEMONSTRATION

CANADIAN MARCONI COMPANY (U.S.A.) INC.

110 North Mohawk Street

Cohoes, N.Y.

GUARANTEE

We guarantee each new Television and/or Radio Receiver sold by us to be free from defects in material and workmanship under normal use and service, our obligation under this Warranty being limited to supplying at no charge to the Authorized Service Organization, dealer or distributor, the necessary part or parts to repair the Receiver or, at our option repairing those parts which shall become defective within 90 days after delivery of such Receiver to the Dealer's original customer, and which are returned to us with transportation charges PREPAID, and which our examination shall disclose to our satisfaction to have been thus defective; this Warranty being definitely in lieu of all Warranties express(ed) or implied and of all other obligations on our part, and we neither assume nor authorize any representative or other person to assume for us any other liability in connection with the sale of this Television and/or Radio Receiver.

We do not assume any responsibility for the cost of the labor involved, in replacing tubes or components.

This Warranty shall not apply to any Television and/or Radio Receiver which shall have been repaired or altered outside our factory or factory branch, or by other than the Authorized Service Organization, dealer or distributor, in any way so as, in our judgment, to affect the Receiver's stability or reliability, nor which has been subject to misuse, neglect or accident, nor which has had the serial number altered, effaced or removed. Neither shall this Warranty apply to any Television and/or Radio Receiver which has been connected otherwise than in accordance with the instructions furnished by the Company.

Picture Tube is guaranteed for 12 months from date of purchase of the TV Receiver.

The guarantee on this Television and/or radio receiver is not valid unless this card is filled in and mailed within five (5) days from date of purchase. The Serial No. and Model No. are stamped on the back.

Do not remove this card if set is only on demonstration.
Carefully read your Instruction Book.

CANADIAN MARCONI COMPANY (U.S.A.) INC.

100 NORTH MOHAWK STREET

COHOES, N.Y.

Please fill in the three cards below, retain card A, fold cards B & C and return to the Canadian Marconi Company (U.S.A.) Inc.

Printed in Canada

CARD A

User Card

Name..... Model No.....

Street..... Serial No.....

City..... State.....

Date Purchased.....

Dealer's Name.....

Address.....

CARD B

Registration Card

Name..... Model No.....

POST CARD

**AFFIX
REGULAR
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CANADIAN MARCONI COMPANY (U.S.A.) INC.

100 NORTH MOHAWK STREET

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