

## Howard Radio Co.

**Model:** Push-Button Adapter

**Chassis:**

**Year:** Pre June 1940

**Power:**

**Circuit:**

**IF:**

**Tubes:**

**Bands:**

Resources

Riders Volume 11 - HOWARD 11-7

MODEL 210A  
Push-Button Adapter  
Schematic

HOWARD RADIO CO.

MODEL 501APC    MODEL 518APC  
MODEL 502APC    MODEL 520APC  
MODEL 508APC    MODEL 580APC

Automatic Phono.Data

B. TO PLAY 10" OR 12" RECORDS SO THAT RECORDS WILL CHANGE AUTOMATICALLY AFTER EACH SELECTION.

1. Move index lever to "Manual" position. FIG. 6.
2. Make sure the pickup arm is resting in groove with pickup over reject needle cup. Figs. 1 and 6.
3. Place first record on turntable as for individual playing.
4. Swing the record holder shelves inward into place down on their posts and extending over the turntable. FIG. 6.
5. Stack any amount up to seven 10-inch records on the record holder shelves.
6. Turn power on at receiver, and switch to "Phono" position.
7. Turn on turntable switch. FIG. 6.
8. With index lever still in the "Manual" position lift pickup arm and lower to first groove of record.
9. Move index lever to 10 or 12 inch position depending on the size records being played.
10. Adjust volume and tone as for radio.

Records with the center changing groove will change automatically at the end of each selection until the end of the last record is reached. The last record will repeat itself until the Turntable Switch or Power-Tone control is turned off. To bring down another record at any time during playing of series, push the index lever, (Fig. 6) to "Reject" and let go. Bring back to "12" if you are playing 12-inch records.

**CAUTION:** DO NOT STOP THE TURNTABLE WITH TURNTABLE SWITCH OR POWER-TONE KNOB UNTIL THE PICKUP IS DOWN AT THE END OF A CYCLE. TO CHANGE NEEDLE: To change needle, place the pickup over the Needle Gauge Plate, with the pickup Arm resting in the support grooves, loosen the Needle Screw, press down the Needle Ejector Tab to drop the needle into the Used Needle Box (Figs. 1 and 6). Allow the gauge plate to return to its normal position. Drop a new needle point first, into the needle hole, press gently on pickup to seat it squarely on gauge plate and tighten the needle screw with your fingers.

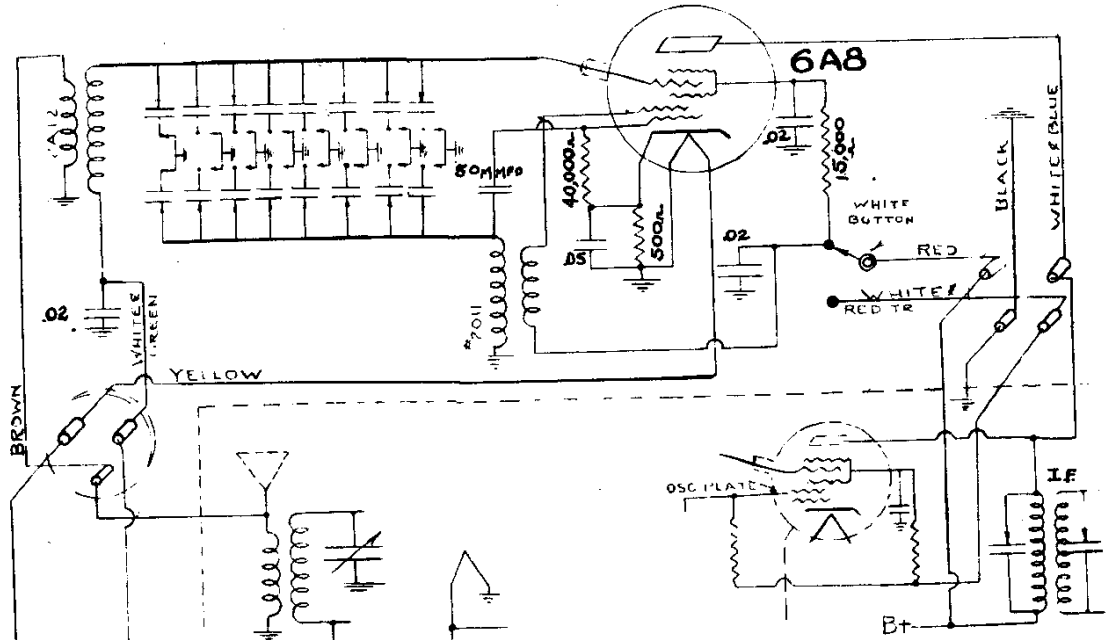
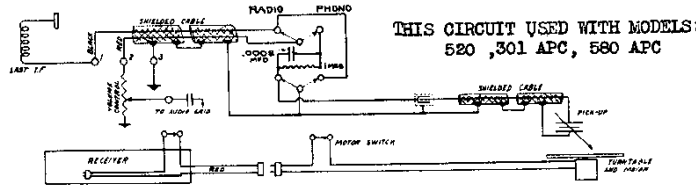
**NEEDLES:** Good needles are essential to best reproduction. It is advisable to use medium-tone needles and these may be purchased from your Retail Store. Do not reinsert a used needle in the pickup. Change your needles frequently, worn needles distort reproduction and may damage the records. A rack for holding needle books will be found at the back of the compartment under the lid. To apply used needles from the needle box, lift the pickup and move to left out of the way, then tilt up used needle box at lid. To apply used needles from the motor board, press the ejector tab to open the lid; to replace, slide the lug on the back front and lift out of its hole in the motor board and press the box into plate.

**RECORDS:** Handle your phonograph records carefully. It is advisable to purchase your records from The Retail Store where you may have them played over on an instrument of this type. Keep your records in a record album or lay them flat when not in use. Never leave them on the Record-Holder shelves. Electrically transcribed records are best. Worn or poorly transcribed records result in distortion. Records with the eccentric or spiral center groove are necessary for automatic operation, either change or repeat.

**LUBRICATION:** Petrolatum or petroleum jelly should be applied to cam, main gear, spindle pinion gear, and gear of record posts. Light machine oil should be used in the tone arm vertical bearing, record post bearings, and all other bearings of various levers on underside of motorboard.

Apply a few drops of light machine oil to the motor spindle bearing. The oil hole has a screw plug. Do not allow oil or grease to come in contact with rubber mounting of tone arm base, rubber bumper, or rubber spindle cap.

FOR SERVICE REFERENCE THE FUNDAMENTAL RADIO-PHONOGRAPH ELECTRICAL CIRCUIT IS SHOWN BELOW.



DWG. D41-715		ADAPTER	
MODEL 210A WITH SWITCH IN SG. CIRCUIT			

Courtesy Nostalgia Air