NOTICE TO ALL DISTRIBUTORS.

SUBJECT - DIAL DRIVE TENSION ADJUSTING FIXTURE FOR ADJUSTING THE TENSION ON DIAL CORDS AND REPLACING DIAL SCALES.

Copies of the attached, showing a Dial Drive Cord Tension Adjusting Fixture and Instructions for using the fixture have been mailed to all Radio dealers.

A notice to the Trade - notifying dealers of the cost of the fixture - $1.00 NET was mailed to each dealer. A copy of this notice is also attached hereto.

As sample fixtures were sent to each Distributor, your Serviceman is doubtless familiar, at this time, with the use of this tool.

Having found the fixture so useful and of much help when changing dial cords and dial scales - we are having a number of these fixtures made up and will supply them at the following cost.

$1.00 Net to the Dealer
.75 Net to the Distributor

As the fixture is a Service Tool - we are supplying it at cost, and the Distributors cost - allows sufficient margin to cover his handling costs.

T. A. Edison, Inc.
Orange, N. J.
Radio Service Dept.
A. Lorch, Manager.

USE OF SPECIAL FIXTURE

FOR ADJUSTING DRIVE CORD TENSION OF LIGHT-O-MATIC SCREEN-GRID RADIOS

1. It is necessary to remove the receiver unit from the cabinet to make this adjustment. Place the special tension adjusting fixture (cat No. 201028) Shown in Fig.#1 so that the sleeve portion fits over the drive shaft (cat No.200334) and the slotted portion over the localtone switch shaft. Before tightening the set screw in the jig make sure that the drive shaft stop-pin (cat No.200335) is in a vertical position (up and down) and the front end of the drive shaft is flush with the front of fixture. At the same time the fin-like lugs on the driven drum (cat No.200338) should be in a horizontal line. If these lugs do not line up horizontally, loosen the two drive tension collars (cat No. 200302) and rotate drum (cat No. 200338) to desired position. To lock the drum in this position, while drive cord is being adjusted, operate the Light-O-Matic punching cam (cat No. 200330-200331) to the right as in logging a station but do not permit the cam to snap off after it has made the indentation in the copper disk (cat No. 200347). The drive shaft and the drum thus being held rigid it is a simple operation to wind up the takeup spring (cat No. 200336) front and back. The amount of tension required is obtained by winding up the tension collar (cat No. 200302) one quarter turn after the initial slack has been taken out of drive cord. In this position tighten tension collar set screws. If set screws are inaccessible for tightening, the collars may be inverted to bring screws to the top.

   If it is desired to adjust the tension of the dial drive cord of a dial assembly unit not installed on the chassis, the drive shaft can be held in position by inserting the Punching Cam Shaft (cat No. 20031) thru hole "A" in the adjusting fixture. To replace the dial drive cords (cat No. 200339) use the method of setting dial drum and drive shaft (cat No. 200334) as outlined. Each cord is 8½" long. Looking at the dial assembly from one side as shown in fig. 1 the operation is as follows:

   1. Lock the dial-drum in position with the fins on the drum (cat No. 200338) horizontal.

   2. Tie a knot in the end of each piece of drive cord and pull them thru the two small holes in the drum.

   3. Remove the two driving pulleys (cat No. 200306) from shaft and thru the small hole in each, thread the drive cords - tying knots in the end of each. Wind the cord in an anti-clockwise direction on each pulley and replace them on the drive shaft (cat No. 200334).

Place in position take up springs (cat No. 200336) and tension collars (cat No. 200302) but do not tighten set screws.

4. Place in position special fixture (cat No. 201028) and with stop pin (cat No. 200335) on drive shaft in a vertical position.

5. Adjust the tension of each cord as previously outlined.

6. As a final check, trip the punching cam shaft (cat no. 20031) so that dial is no longer clamped in position. If it is then found that the fins on the drum (cat no. 200338) are not in a horizontal position, decrease the tension of one of the dive cords.

Method of Setting Dial Scale

Loosen the two set screws in the hub of dial drum (cat no. 200345) so that the latter is free to turn on the shaft. Place receiver in cabinet. Tune in carefully to a station or oscillator signal of known frequency. Rotate dial so that its indication is correct for the station. Final accurate adjustment may be made thru the dial-scale window. In this position turn punching cam shaft (cat No. 200331) to the right just enough to lock the dial. Then tighten dial drum set screws. If a setting of dial between 700 and 1200 KC is chosen it will be found that one or the other of the set screws is accessible from the back of cabinet.

The method of holding the dial in position by means of clamping the copper disk between the male and female dies will be found a useful "kink." A used copper disk can be used for this purpose.

Adjusting Light-O-Matic Contact Switch (Cat no. 200360)

Make sure that the two bolts, which secure switch to bracket, are tight!

The two switch blades should be parallel and the contact point clearance such that an ordinary business card will pass freely between them.

Slide the switch and bracket assembly (cat Nos. 200360 and 200316) on Boss of die holder until the dial contact pin (cat No. 200349) bears just slightly against the fibre insulating strip at switch-blade. Tighten set screw in bracket (cat No. 200337), being careful that convex side of bracket is concentric with dial scale curvature. In operation the impressions on the copper disk should close th contacts definitely. Final adjustments can be made by slightly bending in or out the outside contact blade.