2 TYPE BUZZERS
REQUIREMENTS AND ADJUSTING PROCEDURES

1. GENERAL

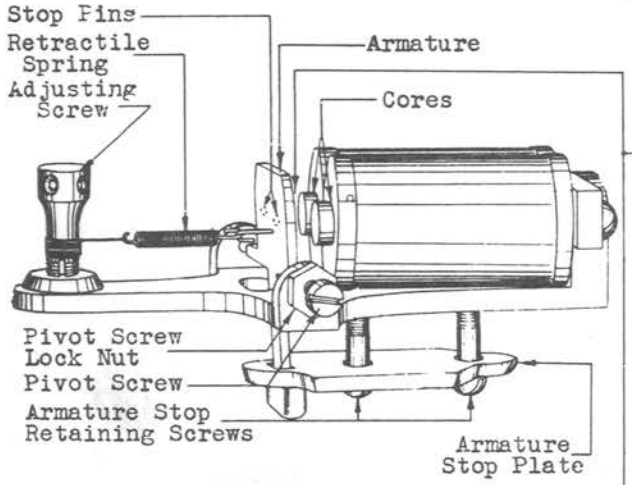
1.01 This section covers 2 type buzzers and replaces specification X-70177-01, Issue 1-D.

1.02 Reference shall be made to Section 020-010-711, covering General Requirements and Definitions for additional information necessary for the proper application of the requirements listed herein.

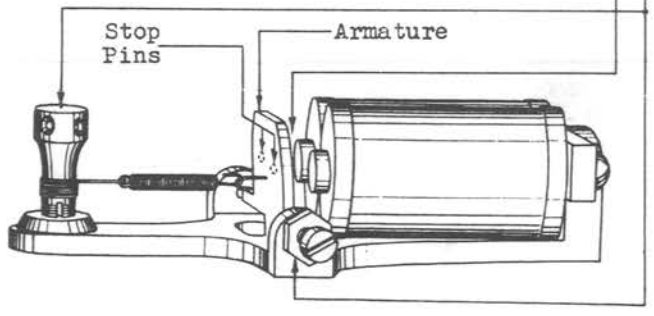
1.03 Part 1, "General" and Part 2, "Requirements" form part of the Western Electric Co. Inc. Installation Department Handbook.

1.04 Requirements are marked with an asterisk (*) when to check for them would necessitate the dismantling or dismounting of apparatus, or would affect the adjustment involved or other adjustments. No check need be made for these requirements unless the apparatus or part is made accessible for other reasons or its performance indicates that such a check is advisable.

2. REQUIREMENTS



Nos. 2-A, 2-B and 2-C Buzzers
Fig. 1



Nos. 2-D and 2-E Buzzers
Fig. 2

2.01 Cleaning The buzzer shall be cleaned in accordance with the section covering cleaning procedures for relay contacts and parts.

2.02 Gap Between Armature and Core The gap between each armature stop pin and associated core shall be max. .016" Gauge by eye.

2.03 Armature Movement The armature shall move freely in its bearings and shall have a slight but not excessive "Side Play". Excessive shall be interpreted to mean more than .005". The side play shall be measured when the armature is moved from side to side in line with the axes of its pivot screw and bearing. Gauge by feel and by eye.

*2.04 Tightness of Adjusting Screw and Pivot Screw Lock Nut The adjusting screw and pivot screw lock nut shall be sufficiently tight to maintain their adjusted position. Gauge by feel.

2.05 Operation The armature shall vibrate steadily on 16 2/3 cycle or 20 cycle ringing current when the buzzer is connected and mounted in the circuit in which it is used.

REASON FOR ISSUE
COVERING CHANGES IN REQUIREMENTS

1. To add the requirement covering cleaning (2.01).

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3. ADJUSTING PROCEDURES

TOOLS

Code No.	Description
35	Screw-driver - 3-1/2"
43	Wrench - 3/16" and 1/4" Hex. Open Double-End Flat
206	Screw-driver - 30° Offset
207	Screw-driver - 90° Offset
359	Magnet Core and Armature Cleaning Tool
-	Bell System P-Long Nose Pliers - 6-1/2" per A.T. & T. Co. Drawing 46-X-56

MATERIALS

-	Toothpicks - Hardwood - Flat at One End and Pointed at Other

3.01 CLEANING (Rq.2.01)

M-1 Clean the buzzer in accordance with the section covering cleaning procedures for relay contacts and parts.

3.02 GAP BETWEEN ARMATURE AND CORE (Rq.2.02)

M-1 To correct the gap between the armature stop pins and the core on No. 2-A or No. 2-C buzzers, loosen the armature stop retaining screws with the Nos. 206 and 207 offset screw-drivers and move the armature stop plate until the gap is within the specified limits.

M-2 To correct the gap on No. 2-D and No. 2-E buzzers, unhook the retractile spring from the armature, loosen the lock nut with the No. 43 wrench and the pivot screw with the Nos. 206 and 207 offset screw-driver and remove the armature.

M-3 Bend the lug on the armature with the long nose pliers as shown in Fig. 3 so that when the armature is replaced the gap between each armature stop pin and associated core is within the specified limits.

3.03 ARMATURE MOVEMENT (Rq.2.03)

M-1 If the armature binds in its bearings it may be due to dirt, in this case clean the bearings as outlined in procedure 3.01.

M-2 If the armature still binds in its bearings, loosen the pivot screw lock nut with the No. 43 wrench and turn the pivot screw in a clockwise or counter-clockwise direction as required with the No. 206 and No. 207 offset screw-drivers.

M-3 After the desired adjustment has been obtained hold the pivot screw with the screw-driver and securely tighten the lock nut with the No. 43 wrench.

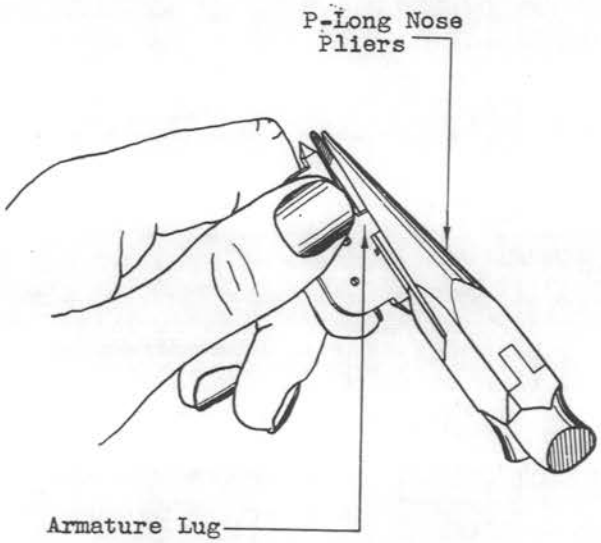

Fig. 3 - Method of Adjusting Armature Lug Nos. 2-D and 2-E Buzzers

3.04 TIGHTNESS OF ADJUSTING SCREW AND PIVOT SCREW LOCK NUT (Rq.2.04)

M-1 Check the tightness of the adjusting screw and pivot screw lock nut with the fingers.

3.04 (Continued)

M-2 To correct a loose adjusting screw, unhook the retractile spring from the armature, remove the screw manually or with the long nose pliers, and slightly spread the slotted portion of the screw with the blade of the No. 35 screw-driver. Replace the screw and the retractile spring.

M-3 To tighten a lock nut, use the No. 43 wrench.

M-4 If either of these adjustments is required, recheck requirements 2.03 and 2.05.

3.05 OPERATION (Rq.2.05)

M-1 Check the operation of the buzzer by closing the operating circuit in which the buzzer is used.

M-2 If the buzzer does not vibrate steadily increase or decrease the tension of the retractile spring by turning the adjusting screw in a clockwise or counter-clockwise direction as required.

REASONS FOR ISSUE COVERING CHANGES IN ADJUSTING PROCEDURES

1. To revise the list of tools and materials. 2. To add cleaning procedures (3.01).