

STATION DIALS

QDB-TYPE

IDENTIFICATION AND MAINTENANCE

1. GENERAL

1.01 This section covers the identification and maintenance of the QDB1A and QDB1B dials.

2. DESCRIPTION

2.01 The QDB-type dial (Fig. 1 and 2) is a direct replacement for the No. 7-type dial.

2.02 Except for the fingerwheel, none of the replaceable parts of the QDB-type dial are interchangeable with the No. 7-type.

2.03 The new fingerwheel introduces two new features:

(1) A longer, more prominent tab, which will assist in locating the station number card correctly.

(2) A small hole, between finger holes 3 and 4, is provided to assist in the removal of the station number card.

2.04 Plastic bearing, reoriented governor studs and a relocated governor cup are incorporated into the design of the QDB-type dial. These features combine to make the operation smoother and more quiet than that of the No. 7-type dial.

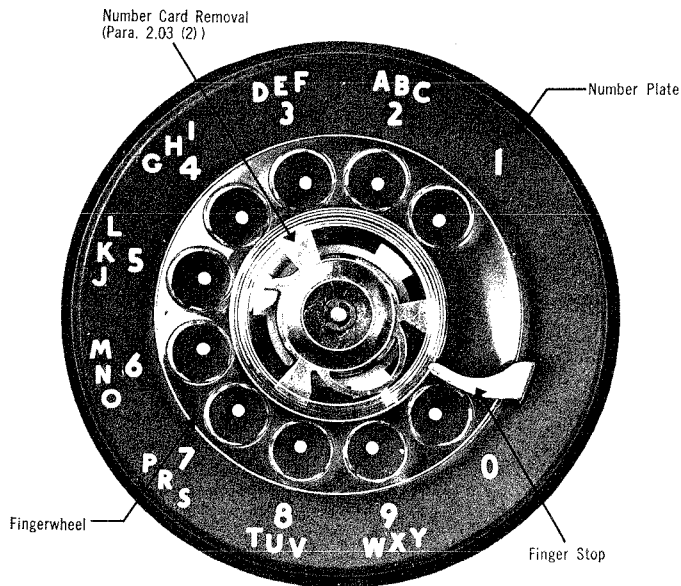


Fig. 1 — QDB-Type Dial — Front View

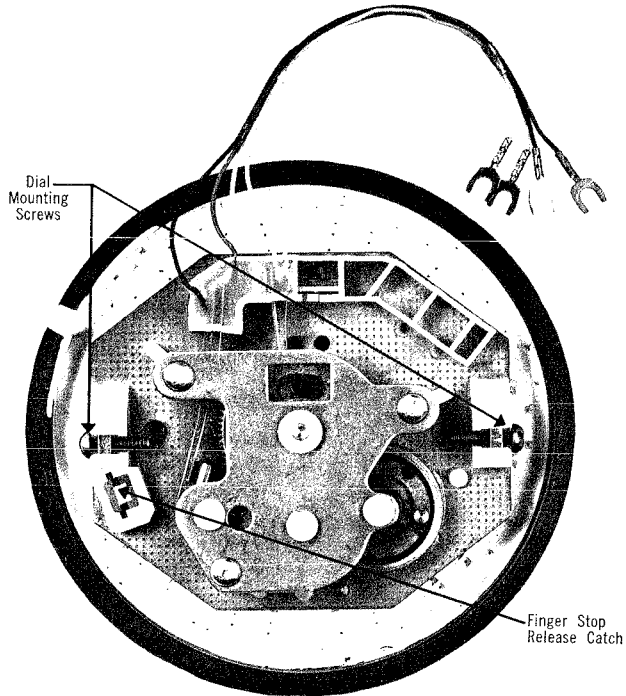


Fig. 2 – QDB-Type Dial – Rear View

3. APPLICATION

TABLE A
USES OF QDB-TYPE DIAL

Dial	Replaces 7-Type	Schematic Fig.	Uses
QDB1A	7C and D	3A	General station. With coloured sets or illuminated dial sets designed for 2-post mounting.
QDB1B	7G and H	4B	Has two pair off-normal contacts. Designed for speakerphone and 1A, 1A1 and 1A2 key telephone systems. Also used on 532-, 535- and 536-type telephone sets.

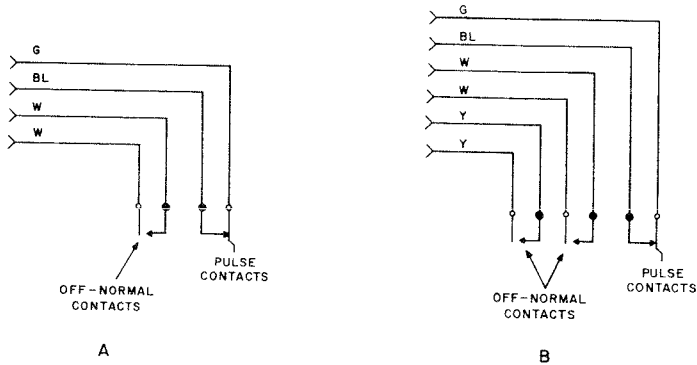


Fig. 3 - Dial Contact Schematics

4. MAINTENANCE

(a) Replaceable apparatus. (See Fig. 4)

- Finger Stop — P97M988
- Fingerwheel — P97M849
- Number Plate — P96A700 (and colour code)
- Dial Mechanism: QDB1A — P894297
QDB1B — P894298

(b) Parts of dial shall not be broken or missing.

(c) The finger stop shall not be loose or damaged.

(d) The dial shall operate smoothly without slipping or skipping.

(1) Check by operating dial several times.

- Replace the dial mechanism if it fails to meet this requirement or is suspected of giving wrong numbers.
- Replace the dial mechanism if improper dial speed or gear mesh is suspected.

(e) Do not lubricate any part of this dial.

(f) Do not attempt to adjust the dial speed or percent break of this dial.

(g) Do not lift or carry this dial by the dial contact leads.

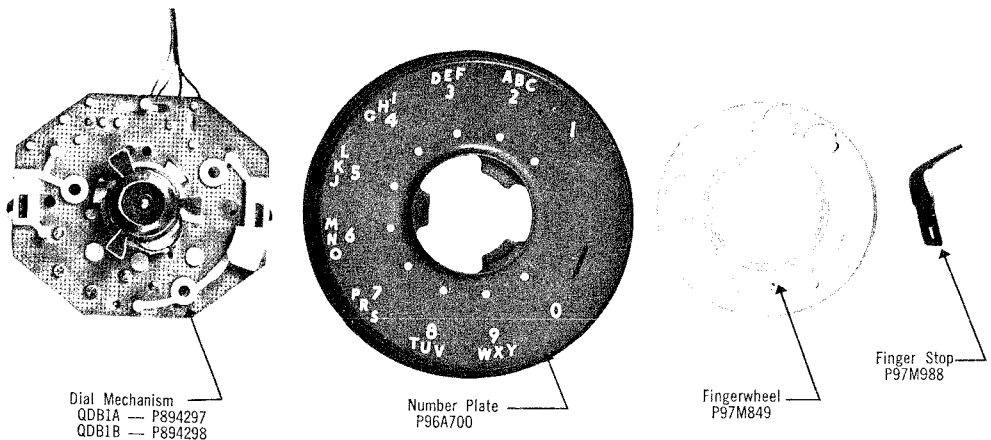


Fig. 4 - Assembly of Parts

Plastic Fingerwheel

4.01 To remove fingerwheel:

- (1) Rotate fingerwheel as far as possible in a clockwise direction.
- (2) Insert KS-16750, List 2 dial tool into the small hole located in the edge of the serrated section of the fingerwheel and push down to disengage the fingerwheel clamp spring.
- (3) When clamp spring releases, remove fingerwheel and dial will return to normal.

4.02 To replace fingerwheel (see Fig. 5):

- (1) Place fingerwheel over clamp with the "0" hole directly over the digit "9" making sure that the fingerwheel depressions are properly positioned on the tangs of the clamp plate.
- (2) Rotate fingerwheel in a counterclockwise direction until clamp spring snaps into the notch on the underside of the fingerwheel.

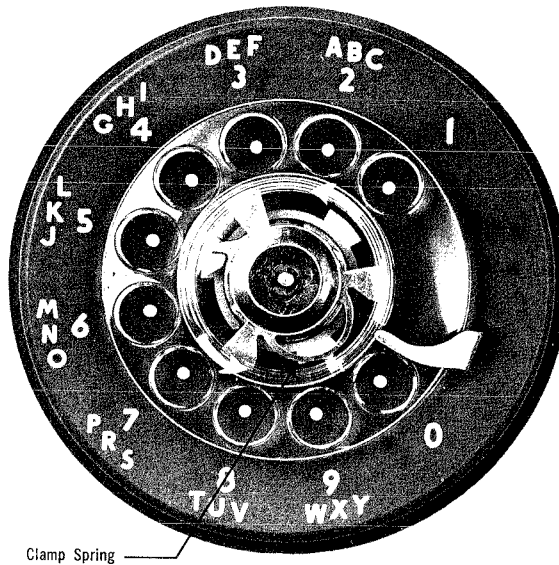


Fig. 5 — Replacing Fingerwheel

Finger Stop

4.03 To remove finger stop (see Fig. 6):

- (1) Depress plastic locking tab with KS-16750, List 2 dial release tool.
- (2) With locking tab depressed, pull the finger stop outwards until fully disengaged.

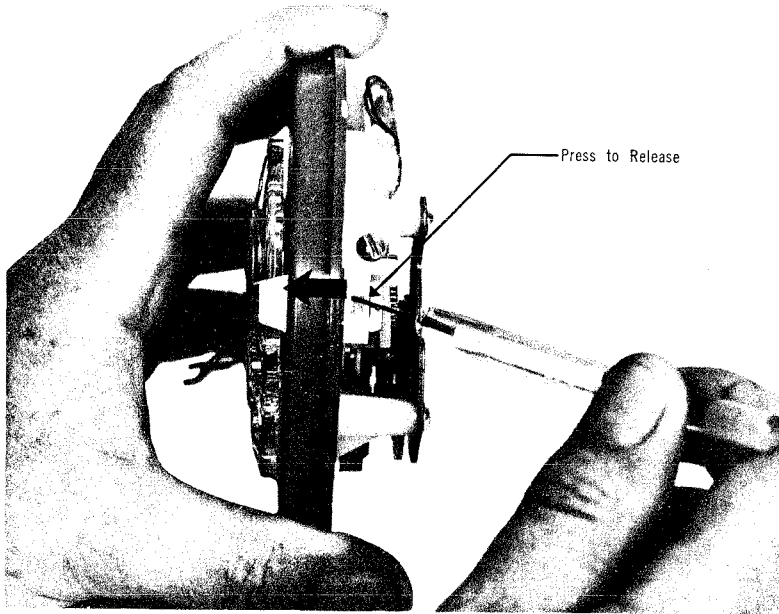


Fig. 6 — Removal of Finger Stop

Number Plate

4.04 To remove number plate:

- (1) Remove fingerwheel (see Para. 4.01).
- (2) Remove finger stop (see Para. 4.03).
- (3) Remove number plate by rotating it in a counterclockwise direction until it becomes free (see Fig. 7).
- (4) Raise the top portion of the number plate until it clears the clamp plate.
- (5) Lift number plate off the dial mechanism.

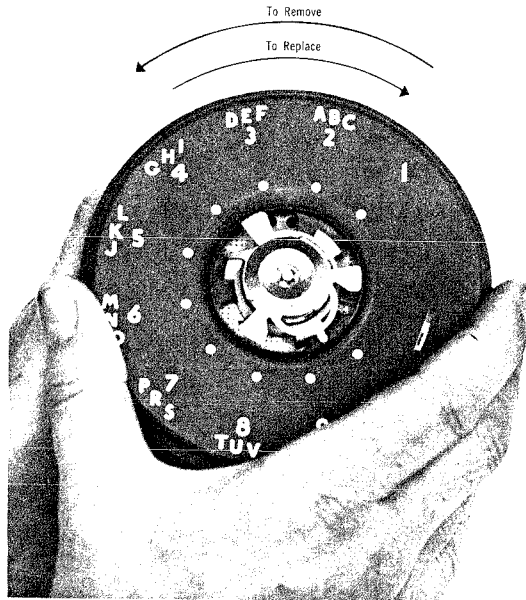


Fig. 7 — Removal of Number Plate

4.05 Reassembly procedure:

(1) Place number plate directly over the dial mechanism and twist the number plate in a clockwise direction as far as possible. During the reassembly procedure, the dial leads must be located at the top of the dial number plate.

(2) Place the finger stop through the opening in the number plate and into the dial mechanism. A distinct click will be heard when the finger stop is fully engaged.

(3) Place fingerwheel in a normal manner.