

HOUSE EXCHANGE SYSTEM No. 3 (KEYMASTER)

Maintenance of Telephone, Intercom, No. 3/1

1. General.—This Instruction deals with the maintenance of those parts of the Telephone, Intercom, No. 3/1 which are additional to or differ from those of the Telephone No. 706. Maintenance of the Telephone No. 706 is dealt with in A 5253 which should be read in conjunction with this Instruction.

2. Circuit and wiring diagram numbers for the installation are given in the Index to Q diagrams.

★**3.** The following items should be held on Normal Stock in addition to those listed in A 5253.

Telephone, Intercom, No. 3/1L or CB
Buzzer No. 2B-2
Cord, Instrument, No. 20/03AJ
Lamps No. 26H and No. 26J
Part No. 1-5 DBU/341 (Colour)
Part No. 1-4 DLA/32 (Colour)
Part No. 1/DPI/205
Part No. 1/DPL/2061

4. The method to be used for the removal and replacement of the cover is similar to that described in A 5253. Locating tongues are not provided on the cover.

5. Removal and replacement of buttons

★**(a) Removal of extension button.** Remove the pin by drawing it through the slot with a Screwdriver, Instrument, No. 1. The buttons and metal separator can then be removed from the top of the case.

★**(b) Replacement of extension buttons.** Replace the pair of buttons and the separator through the top of the case. Pass the pin through the slots in the button and the small hole in the separator. Press the pin home into its locating slots in the cover. Early samples of this telephone were fitted with circular section pins (Part No. 1/DPI/203) to retain the extension buttons. Where difficulty has been experienced due to extension buttons becoming dislodged, fit a modified retaining pin (Part No. 1/DPI/205) in its place.

The metal separator plate should be removed and a Part No. 1/DPL/2061 fitted in lieu.

(c) Removal of buttons or dummy buttons (except extension buttons). This may be done as described in A 5255. The 'A' position button (BELL OFF) uses a cranked pin which should be fitted with its cranked section uppermost in the telephone cover.

6. Removal of terminal and key spring-set units.—These may be removed from the gravity-switch bracket for inspection purposes but attempts should not be made to adjust the key spring set or the gravity-switch units. If any fail in service, change the complete telephone.

(a) Dismantling the assemblies.

(i) Remove the regulator.

(ii) Remove the plastic dust covers which surround the key unit.

(iii) The terminal strip is held between the gravity-switch brackets by three locating studs, one of which is mounted on a spring and can be pushed inwards. Depress this stud which passes through the left-hand bracket with a Screwdriver, Instrument, No. 1 until the stud head is clear of the bracket. Pull the terminal strip clear.

(iv) The key unit is fixed to the gravity-switch bracket by four cheese-headed screws, two at the front and one at each side. Remove these screws and withdraw the key unit. No attempt must be made to dismantle or adjust the key unit or plungers.

(b) Reassembly. The units and parts should be reassembled in the reverse order.

7. Plungers.—The key plungers should move freely up and down and latch and release correctly. If any fail, change the complete telephone.

8. Rocker bar.—The rocker bar prevents the exchange key from being depressed if the gravity switch is depressed.

(a) Depress the gravity switch and engage the clip. Check that the 'exchange' plunger cannot be depressed.

(b) Release the clip and check that the EXCHANGE key can be depressed.

9. Lamps.—The lamps are screw-in type. When screwing the lamp in or out of its socket, grip the lamp by the rubber skirt and turn both together. This will minimize possible damage to the lamp. Only Lamps No. 26H and No. 26J are suitable. Locally purchased lamps must not be used. The lamp luminance should be satisfactory with 6.5V. The voltage-dropping resistors supplying the lamps become hot and care should be taken to avoid burns.

10. Buzzer.—The buzzer should be adjusted to give satisfactory volume consistent with reliable operation. The adjusting screw is the round-headed screw on the side of the buzzer. If the buzzer unit is changed the bracket forks should be adjusted so that the buzzer is resting against the case. Failure to do this will reduce its performance.

11. Disconnection of telephone.—If the telephone is disconnected certain straps are required in the Block, Terminal, No. 37A to maintain service on the installation. These are as follows :—

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Strap terminal 1 to terminal 6 } to complete the ex- internal straps in the replacement telephone are
Strap terminal 2 to terminal 5 } change line circuit correct for that type of station in the installation.
Strap terminal 17 to 18 to complete the mag-
neto bell circuit

12. If the telephone is changed ensure that the

13. Cord changing.—The details of the cord connexion are contained in Dgm. Q(L) 422 and 424.

References :—A 5253, A 5255
(TPM2/3)

END