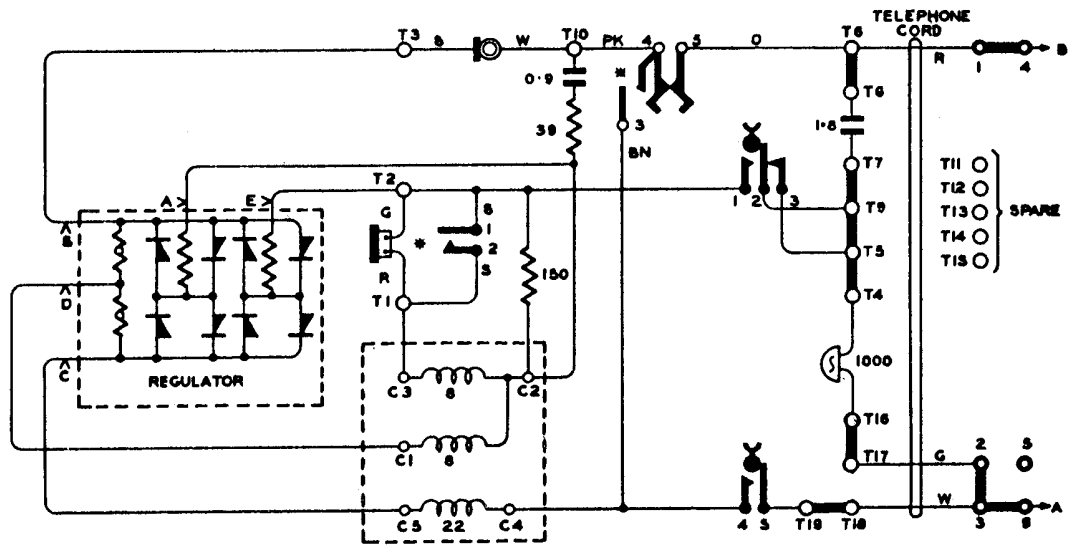


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ENGINEERING NOTES

N.Z. POST OFFICE



- T TELEPHONE TERMINALS
- C INDUCTION COIL TERMINALS
- * DIAL SPRINGS
- △ REGULATOR CONNECTIONS
- BLOCK TERMINALS

FIG. 1

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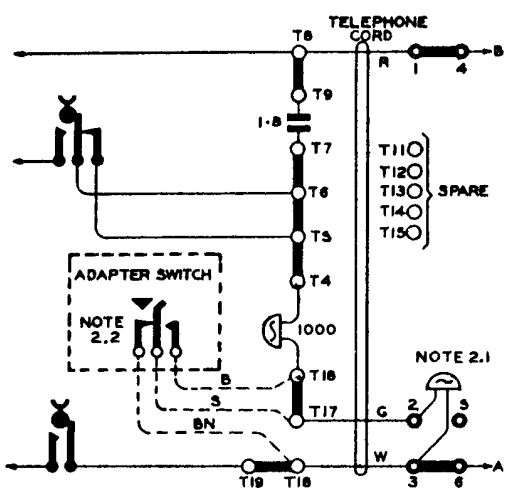


FIG. 2
NORMAL EXTN. BELL: SEE NOTE 2

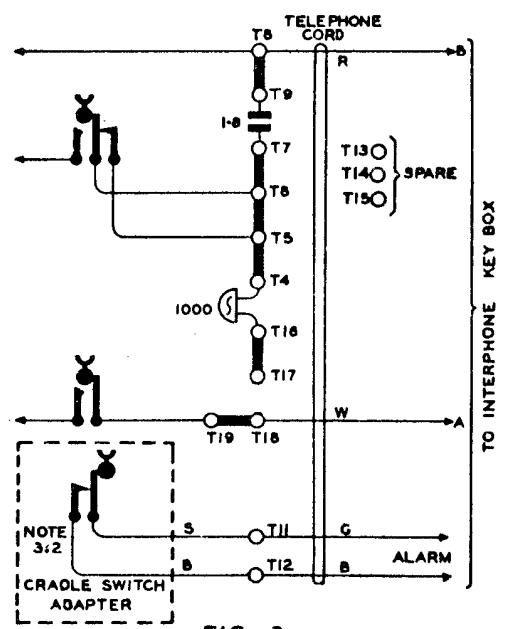


FIG. 3
N.Z.R.O. INTERPHONE: SEE NOTE 3

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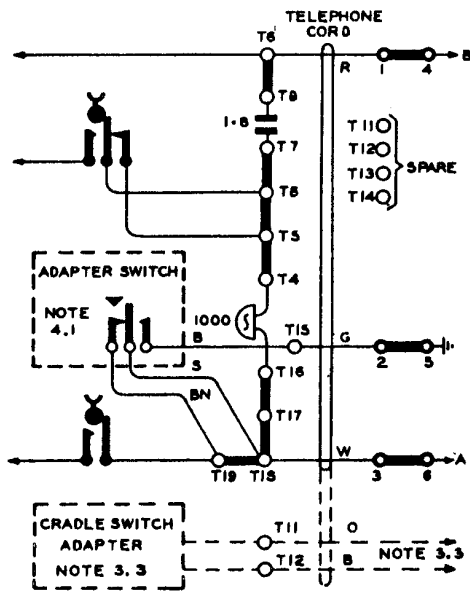


FIG 4
P.A.B.X. RECALL SEE NOTE 4

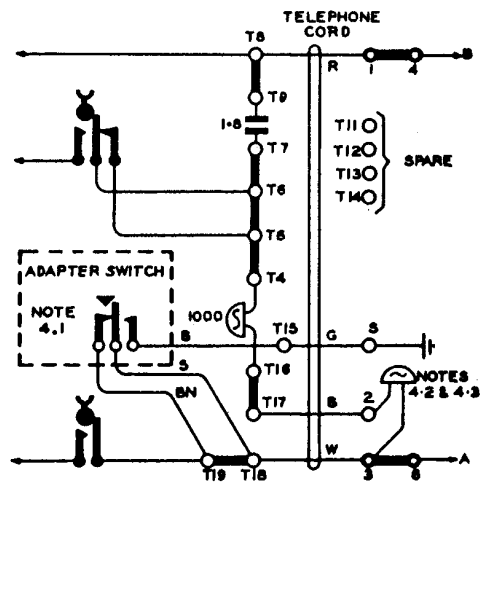


FIG 5
P.A.B.X. RECALL WITH EXTENSION BELL SEE NOTE 4

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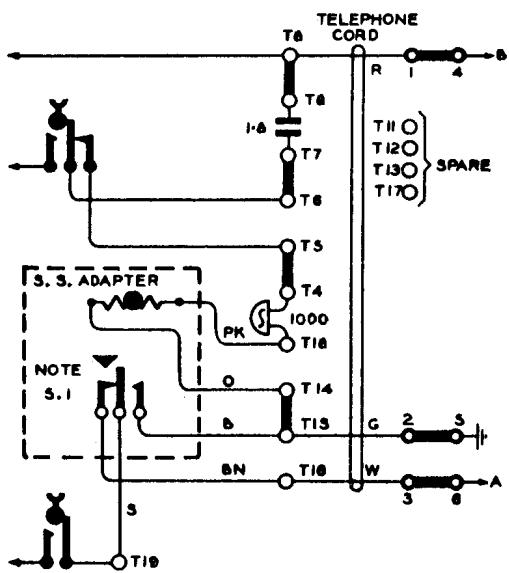


FIG 6
SHARED SERVICE SEE NOTE 5

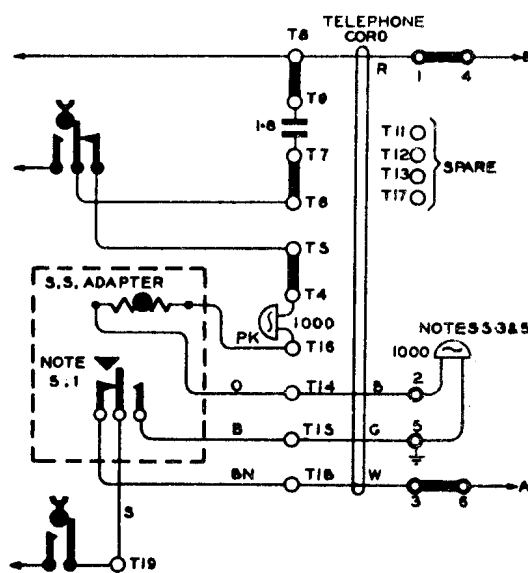


FIG 7
SHARED SERVICE WITH EXTENSION BELL
SEE NOTE 5

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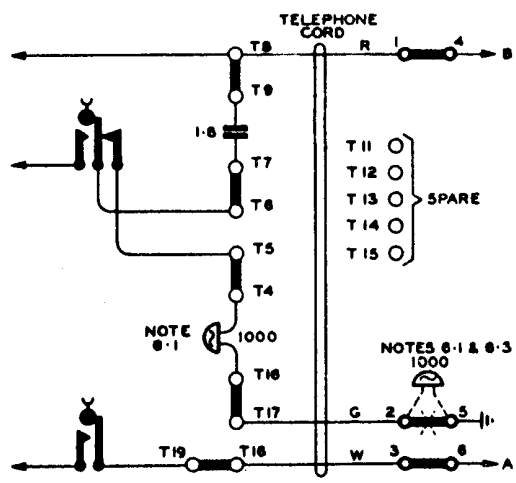


FIG. 8
2 - PARTY: SEE NOTE 6

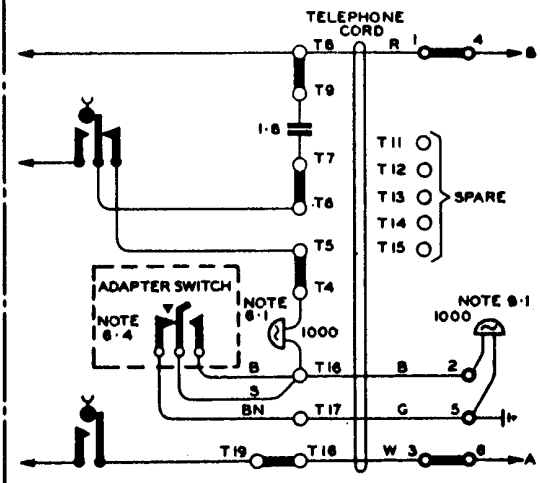


FIG. 9
2 - PARTY WITH EXTN BELL CUT-OFF KEY:
SEE NOTE 6

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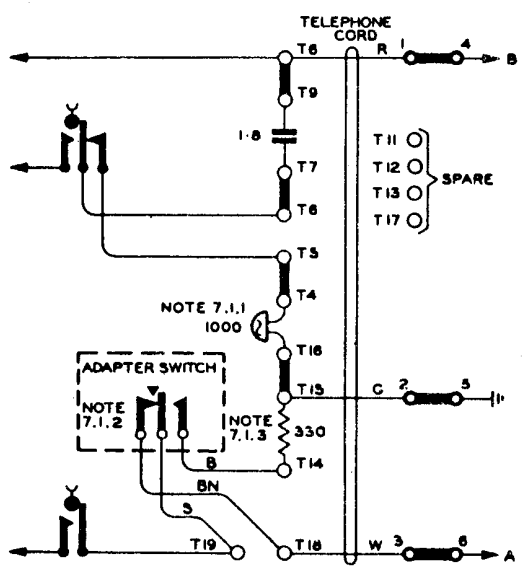


FIG. 10
2 - PARTY, WITH REVERTIVE CALL KEY:
SEE NOTE 7

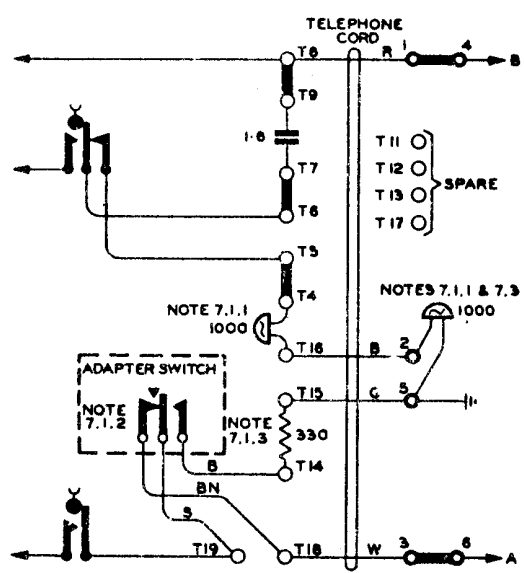


FIG. 11
2 - PARTY, WITH REVERTIVE CALL KEY & EXTENSION BELL:
SEE NOTE 7

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1. GENERAL. The No. 706 telephone may be used for the following services:-

Individual automatic lines	2-Party
N.Z.P.O. Interphone	2-Party, with revertive call key
P.A.B.X. Recall	M-Party at U.A.X.
Shared Service	Central Battery

2. NORMAL TELEPHONES.

2.1 Extension Bell. Remove strap and connect extension bell between block terminals 2 & 3 (Fig. 2).

2.2 Extension Bell Cut-Off Key.

2.2.1 Fit adapter switch HC 140 (locking) with label HC 142.... (colour) to mounting bracket in telephone. Remove dummy button from case. Connect leads as shown - - - - in Fig. 2.

2.2.2 To silence the telephone bell when the extension bell is switched on move the B adapter switch wire from T16 to T4 in Fig. 2.

3. N.Z.P.O. INTERPHONE.

3.1 Without holding key alarm.

3.1.1 Use normal telephones (Fig. 1) without the terminal block. Connect the green cord conductor to spare terminals in the telephone and keybox to disconnect bell.

3.1.2 When P.A.B.X. recall facilities are required, connect the telephone as shown in Fig. 4, omit the terminal block and the strap T17-T18.

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3.2 Holding key alarm with normal telephone (Fig. 3).

3.2.1 Fit cradle switch springset HC 100 to the vertical bracket opposite the normal cradle switch springset.

3.2.2 Connect the leads from the additional springset as shown in Fig. 3.

3.2.3 Replace the 3-wire cord HC 543.... with a 4-wire cord KC 729.... and connect as shown in Fig. 3.

3.3 Holding key alarm with P.A.B.X. recall telephone (Fig. 4).

3.3.1 Fit cradle switch adapter as in Fig. 3 and Note 3.2.

3.3.2 Fit adapter switch as in Fig. 4 and Note 4.1.

3.3.3 Replace the 3-wire cord HC 543.... with a 5-wire cord KC 739...., wire as shown in Fig. 4 including connections shown - - -, omitting the terminal block.

4. P.A.B.X. RECALL.

4.1 Fit adapter switch HC 110 (non-locking), with label HC 112.... (colour) to mounting bracket in telephone, remove dummy button from case. Connect leads as shown in Fig. 4.

4.2 Extension Bell. Replace the 3-wire cord HC 543.... with a 4-wire cord KC 729.... and connect as shown in Fig. 5.

4.3 Extension Bell Cut-off Key. Use a No. 710 telephone, see C 2010, Fig. 2.

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5. SHARED SERVICE.

5.1 Fit adapter shared service HC 105 with label HC 107.... (colour), to the mounting bracket in the telephone, remove dummy button from case. Connect leads as shown in Fig. 6.

5.2 Connections for an "X" station are shown in Fig. 6 or 7. For a "Y" station, reverse A & B wires of exchange line at block terminals 4 and 6.

5.3 Extension Bell. Replace the 3-wire cord HC 543.... with a 4-wire cord KC 729.... and connect as shown in Fig. 7.

5.4 Extension Bell Cut-off Key. Use a No. 710 telephone, see C 2010, Fig. 3.

6. 2-PARTY.

6.1 Fit a bias spring assembly HC 509 and HC 509A to the telephone bell, and to any extension bells.

6.1.1 Method of fitting bias spring assembly (see E.I. C 3213).

- (a) Remove dial and regulator.
- (b) Remove the bell armature clip, fit new clip and bias spring.
- (c) Fit the tension plate under the bell coil nuts:
 - At X stations face the lip of the plate towards the armature;
 - At Y stations face the lip of the plate away from the armature.
- (d) Replace dial and regulator.
- (e) Adjust bias as required.

6.2 Connections for an "X" station are shown in Fig. 8 or 9. For a "Y" station, reverse A & B wires of exchange line at block terminals 4 and 6.

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6.3 Extension Bell. Remove strap shown ~~✱~~ and connect bell as shown - - - - in Fig. 8.

6.4 Extension Bell Cut-off Key.

6.4.1 Fit adapter switch HC 140 (locking) with label HC 142.... (colour) to mounting bracket in telephone. Remove dummy button from case. Replace the 3-wire cord HC 543.... with a 4-wire cord KC 729.... and connect as shown in Fig. 9.

6.4.2 To silence the telephone bell when the extension bell is switched on move the blue adapter switch wire from T16 to T4 in Fig. 9.

7. 2-PARTY, WITH REVERTIVE CALL KEY.

7.1 Assembly of telephone with revertive call key Fig. 10 and 11.

7.1.1 Fit a bias spring assembly, HC 509 and HC 509A to the telephone bell, and to any extension bells. See par. 6.1.1.

7.1.2 Fit adapter switch HC 110 (non-locking), with label HC 109.... (colour) to mounting bracket in telephone, remove dummy button from case. Connect leads as shown in Fig. 10 or 11.

7.1.3 Connect a 330 ohm 1-watt carbon resistor, S.L. No. ER 419, between terminals T14 and T15. Enclose the resistor in insulated sleeving.

7.2 Connections for an "X" station are shown in Fig. 10 or 11.

For a "Y" station:

- (a) Reverse A & B wires of exchange line at block terminals 4 and 6; and
- (b) Reverse the adapter switch wires, brown and slate on T18 and T19.

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7.3 Extension Bell. Replace the 3-wire cord HC 543.... with a 4-wire cord KC 729.... and connect as shown in Fig. 11.

8. M-PARTY (U.A.X.).

When required for "M" party service at a U.A.X., remove the strap and connect a valve K 995D, between terminals T16 and T17 (Fig. 1).

9. CENTRAL BATTERY.

9.1 For wired telephones (plastic base).

9.1.1 Remove the existing number ring and fit the dial dummy HC 300.... to the case.

9.1.2 Remove the dial from the clamp.

9.1.3 Remove the wires from the dial.

9.1.4 Push the BN, S and B wire tags into the holes provided in the insulated base and connect the O and PK wires together under the screw provided.

9.2 For Printed Circuit Telephones (metal base). A terminal plate HC 599 is required in addition to the dial dummy for this instrument.

9.2.1 Remove the existing number ring and fit the dial dummy HC 300.... to the case.

9.2.2 Remove the dial from the clamp.

9.2.3 Remove the wires from the dial.

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9.2.4 Mount the additional terminal plate (HC 599) in the dial clamp.

9.2.5 Push the BN, S and B wire tags into the holes provided in the insulated terminal plate and connect the O and PK wires together under the screw provided.

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