

FOUR-WIRE TERMINATION  
 USING TELEPHONE No.710CB...  
 AND UNIT, TERMINATING No.21A  
 WITH OPTIONAL LOUDSPEAKER MONITORING  
 ON THE RECEIVE PAIR

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NOTES:

WITH AND WITHOUT MONITORING FACILITY

1. (a) Full lines show wiring required for Four-wire Telephone Termination, when mains and local power supplies are available and loudspeaker monitoring is not provided. T29 and BT2 are anchoring points for the spare white conductor when nine-way cord is used.
- (b) Dotted Lines indicate alternative arrangements.
2. Except in the case of Note 9, connect power supply to tags TU11 and TU14 of Unit, Terminating No.21A. Strapping shown is suitable for a 24 volt power supply.
3. If a 50 volt power supply is used, replace straps between TU12-TU19 and TU13-TU20 by Resistors, Carbon, No.15 GD, 300 ohms.
4. If no existing power supply is available, use three Cells, Dry R40 in Box, Battery No.3 and strap TU19-TU26 and TU20-TU27.
5. If no mains supply is available, fit Generator No.26AN as shown dotted and remove strap between BT5 and BT6. Omit Part 1/DSP/1243 (KA) and Part 21/OBU/260 (Call). Strap Terminals T16-T17 and T22-T23.
6. The output terminals (R, or RR) of the Converter, Ringing No.7 should NOT normally be earthed. (Ref. Note 4, Diag. N654).

WITHOUT MONITORING FACILITY

7. If no existing power supply is available and the loop resistance between telephone and terminating unit exceeds 60 ohms, the transmitter current must be maintained at 30 mA by increasing the voltage at TU11-TU14. (An Adapter LB No.4 cannot be fitted at the telephone, when a Part 1/DSP/1264 is in use).
8. If no mains supply is available, omit one Part 1/DST/836 (terminals T26-T31).

P.O. TELECOMS. HQRS.			
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## WITH MONITORING FACILITY

9. If no existing power supply is available and the loop resistance between telephone and terminating unit exceeds 60 ohms, fit Adapter LB No.4 at the telephone and use Block, Terminal No.37B in place of No.36B. Remove straps between terminals T10-T11 and T11-T12 and connect three Cells, Dry R40 in Box, Battery No.3 to terminals BT12 and BT13.

## APPARATUS REQUIRED

## 1. WITHOUT MONITORING FACILITY

- 1 Resistor, Carbon No.15 GD 150 ohms (R3)
- 1 Resistor, Carbon No.15 GD 470 ohms (R4)
- 1 Part 1/DSP/1264 (SB)
- 1 Part 1/DSP/1243 (KA) (Note 5)
- 2 Capacitors, Paper No.7712-2 (C2 and C3)
- 2 Clips No.90
- 1 Cord, Inst. No.9/15 AD...
- 1 Telephone No.710 CB...
- 2 Parts 1/DST/836 (Note 8)
- 1 Block, Terminal No.36B
- 1 Part 21/DBU/260, engraved "CALL" (Note 5, and Note 2 of Diag.N849)
- 1 Resistor, Carbon No.15 GD, 620 ohms (R6)
- 1 Unit, Terminating No21A

## 2. WITH MONITORING FACILITY

- 1 Resistor, Carbon No.15 GD, 150 ohms (R3)
- 1 Resistor, Carbon No.15 GD, 470 ohms (R4)
- 2 Parts 1/DSP/1243 (KA, KD) (Note 5)
- 2 Capacitors, Paper No.7712-2 (C2 and C3)
- 2 Clips No.90
- 1 Cord, Inst. No.12/15 AD...
- 1 Telephone No.710 CB...
- 2 Parts 1/DST/836
- 1 Block, Terminal No.36B (Note 9)
- 1 Part 21/DBU/260, engraved "CALL" (Note 5, and Note 2 of Diag.N849)
- 1 Part 21/DBU/260, engraved "SPEAK" (Note 2 of Diag. N849)
- 2 Resistors, Carbon No.15 GD, 620 ohms (R5, R6)
- 1 Unit, Terminating No.21A

## ASSEMBLY OF TELEPHONE

## 1. WITH AND WITHOUT MONITORING FACILITY

Transfer handset cord white conductor from T10 to T11, green conductor from T2 to T25 and red conductor from T1 to T20.  
Strap terminals T10-T11 and T11-T12  
Reverse regulator.

Fit 2 Parts 1/DST/836 (Note 8)  
Connect Resistor, Carbon 15 GD, 150 ohms (R3) to T1 and T2.  
Connect Resistor, Carbon 15 GD, 470 ohms (R4) to T20 and T21.  
Remove straps between terminals T4-T5, T16-T17, T17-T18 and T18-T19.  
Fit Part 1/DSP/1243 (KA) in position 'A' and wire to diagram.  
Bunch unused tags and sleeve (Note 5).  
Set latch 'A' to setting 3 (Diag. N848).  
Fit Part 21/DBU/260 engraved "CALL" in position 'A' (Note 5).  
Fit Capacitors, Paper No.7712-2 (C2 and C3) in Clips No.90 and wire C2 to T4 and T23 and C3 to T18 and T19.  
Connect Resistor, Carbon No.25 GD, 620 ohms (R6) to T15 and T18.

## 2. WITHOUT MONITORING FACILITY

Fit Part 1/DSP/1264 (SB) and wire to diagram  
Fit Cord, Inst. No.9/15 AD... and Block, Terminal No.36B, wire to diagram.

## 3. WITH MONITORING FACILITY

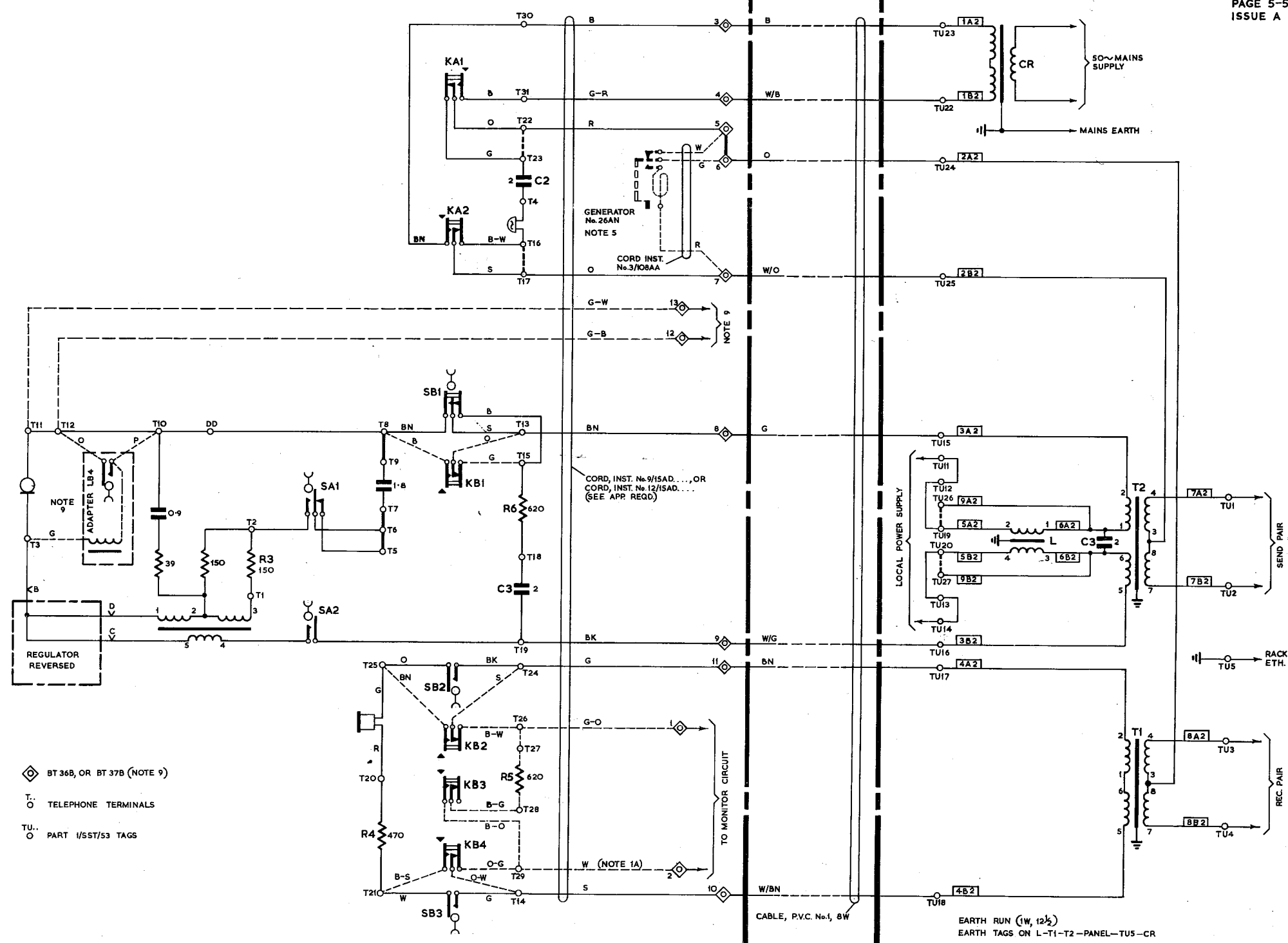
Fit Part 1/DSP/1243 (KB) in position 'D' and wire to diagram.  
Set latch 'D' to position 1.  
Fit Part 21/DBU/260, engraved "SPEAK" in position 'D'.  
Fit Resistor, Carbon No.15 GD, 620 ohms (R5)  
Strap Terminals T26-T27.  
Fit Cord, Inst. No.12/15 AD... and Block, Terminal No.36B, wire to diagram (Note 9).

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SPARE

TELEPHONE

UNIT, TERMINATING



- ◊ BT 36B, OR BT 37B (NOTE 9)
- T: TELEPHONE TERMINALS
- TU.: PART 1/SST/53 TAGS

GENERATOR  
No. 26AH  
NOTE 5

CORD INST.  
No. 3/108AA

CORD. INST. No. 9/15AD... OR  
CORD. INST. No. 12/15AD...  
(SEE APP. REQD.)

CABLE, P.V.C. No. 1, 8W

EARTH RUN (1W, 12½)  
EARTH TAGS ON L-T1-T2-PANEL-TU5-CR