

**AUTOMATIC SYSTEM**  
**EXTENSION PLAN 2A (INTERNAL ONLY) ON 2-WIRE PBX's WITH**  
**RECALL USING TELEPHONE No. 740**

**NOTES:-**

- 1 The facilities of Plan 2A are shown on Dgm N1448
- 2 **APPARATUS REQUIRED:-**  
 All Stations:-  
 Telephone No.740 (Telephone No.710 not to be used in lieu)  
 Switch Composite No.D93313  
 Handset No.6  
 Cord Inst No.20/10AD  
 Cord Inst No. 6/60AX  
 Block Terminal No.37B or 45  
 Part 5/DBU/372  
 Part 6/DBU/372  
 Part 7/DBU/372  
 Part 9/DBU/372  
 Part 1/DPI/203  
 } As required
- 3 Fit Parts 5,6,7 and 9/DBU/372 in Positions A,B,C and D respectively, as required. Latches A-D should be adjusted to Setting 1, Latches X and Y to Setting 4. (see Dgm N848)
- 4 Early issues of Telephone No.740 were not provided with Rectifier-Element No.205. Where omitted connect Rectifier-Element No.205 between Terminals T1-T2
- 5 Wire extension telephones as for main telephones e.g Extension 5, wire as Main 5, but omit straps between T4-T7 and T16-T17
- 6 Recover Handset No.3 and Cord Inst No.4/88AK and provide Handset No.6 and Cord Inst No.6/60AX in accordance with the diagram (Handset No.6 connexion plate terminals are marked HS...). Cut off or insulate spare Black cord conductor
- 7 The numbers marked on the press-buttons are for the guidance of the customer in relating the press-buttons to the PBX Extension line numbers shown on the dial label  
 Assuming a 5 PBX Extension Line installation the arrangement of the Lines L1,L2,L3,L4 and L5 will be as follows :-

	BUTTONS	ALL BUTTONS NORMAL (Home Line)
	[1] [2] [3] [4]	
Main and Extension 1	L5 L2 L3 L4	L1
Main and Extension 2	L1 L5 L3 L4	L2
Main and Extension 3	L1 L2 L5 L4	L3
Main and Extension 4	L1 L2 L3 L5	L4
Main and Extension 5	L1 L2 L3 L4	L5

Assuming a 3 PBX Extension Line installation the arrangement of the Lines L1,L2 and L3 will be as follows:-

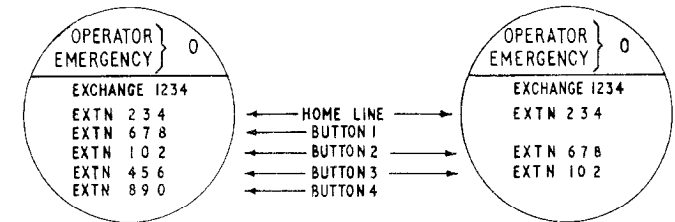
	BUTTONS	ALL BUTTONS NORMAL (Home Line)
	[1] [2] [3]	
Main and Extension 1	L2 L3	L1
Main and Extension 2	L1 L3	L2
Main and Extension 3	L1 L2	L3

Note that press-button allocations must be as shown to avoid re-location of existing lines when additional PBX Extension Lines are provided

- 8 The specially prepared dial centre label should be obtained from the traffic division. The exchange line and PBX Extension numbers should be inserted as shown:-

MAIN 1 OF 5 LINE INSTALLATION

MAIN 1 OF 3 LINE INSTALLATION



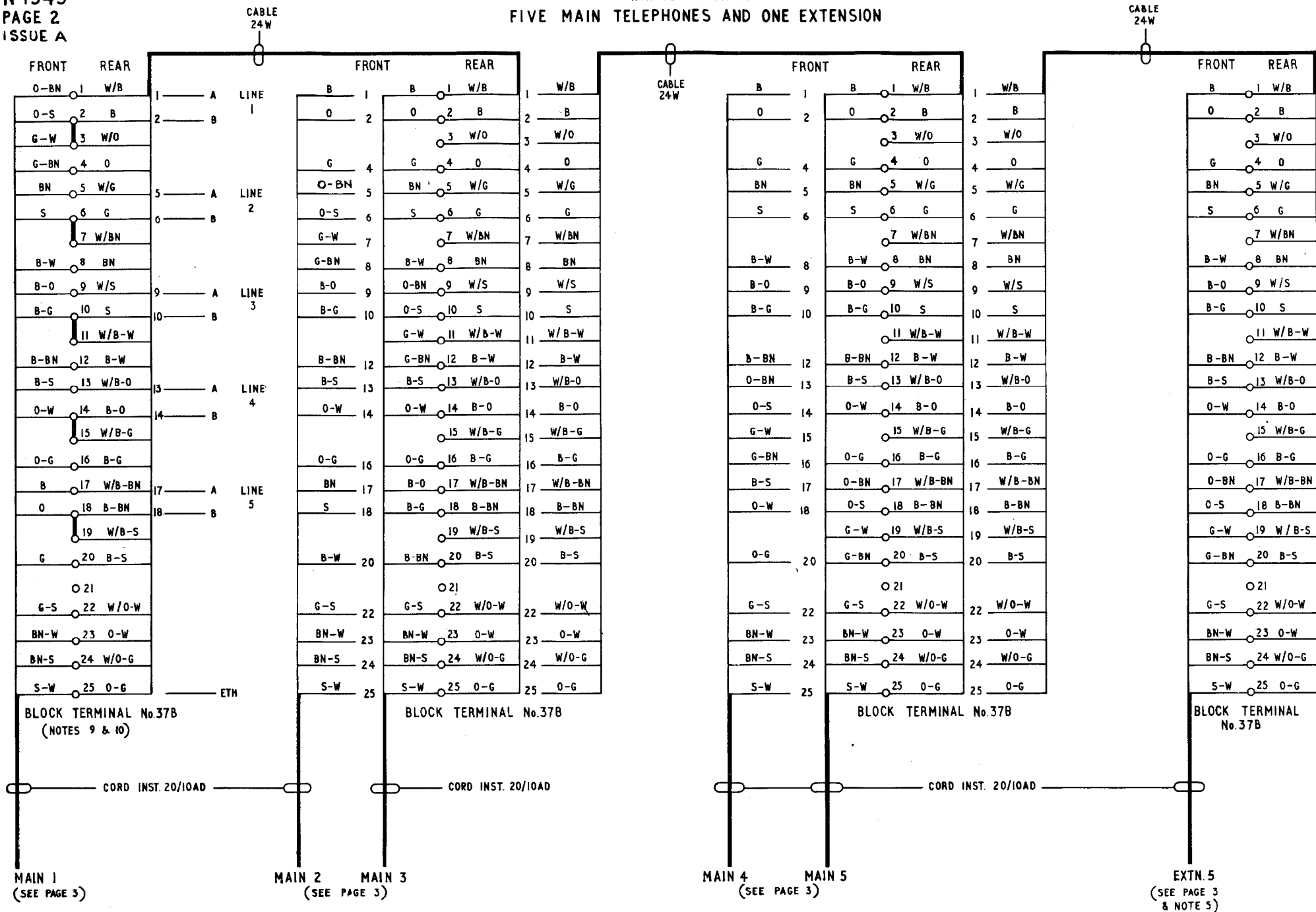
- 9 Extension bells should be wired to the BT37B on which the PBX Extension lines are terminated. Recover strap between terminals shown below and connect bell in lieu  
 Line 1: BT2-3  
 Line 2: BT6-7  
 Line 3: BT10-11  
 Line 4: BT14-15  
 Line 5: BT18-19

If a bell in an extension telephone is to be used as an extension bell, remove strap as described above and additionally in extension telephone  
 Shift G-S lead of switch composite from T4 to T11  
 Shift G-BN cord conductor from T4 to T11  
 Shift G-W cord conductor from T17 to T4  
 Strap Terminals T16-T17-T18  
 Only one extension telephone may have the bell connected as an extension bell

- 10 Straps between Terminals 2-3, 6-7, 10-11, 14-15 and 18-19 to be provided on the front of the terminal strap
- 11 The internal connexions of all main instruments are identical

PO TELECOMMS HQRS  PAPER:- W  DISTN:- CB & AUTO	ISSUE		
	A	MINOR AMENDMENT. NOTE 2 & NOTE 6 AMENDED. PD1.1.3 3D	17.12.80
		TD 2-3-1 SECTION	23.11.73

WIRING DIAGRAM  
FIVE MAIN TELEPHONES AND ONE EXTENSION



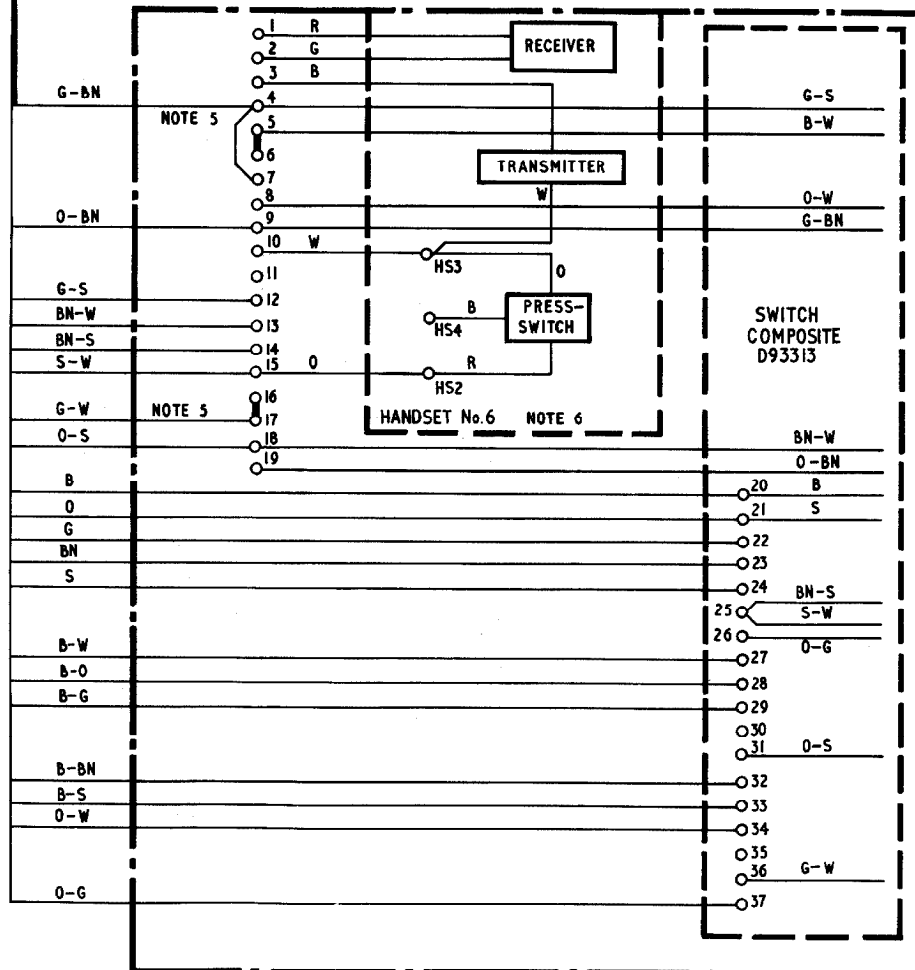
WIRING DIAGRAM

MAIN OR EXTENSION TELEPHONE  
(NOTES 4,5,6 & 11)

FOR CONNEXION  
TO BLOCK TERMINAL  
(SEE PAGE 2)

CORD INST No.20/10AD

TELEPHONE No. 740

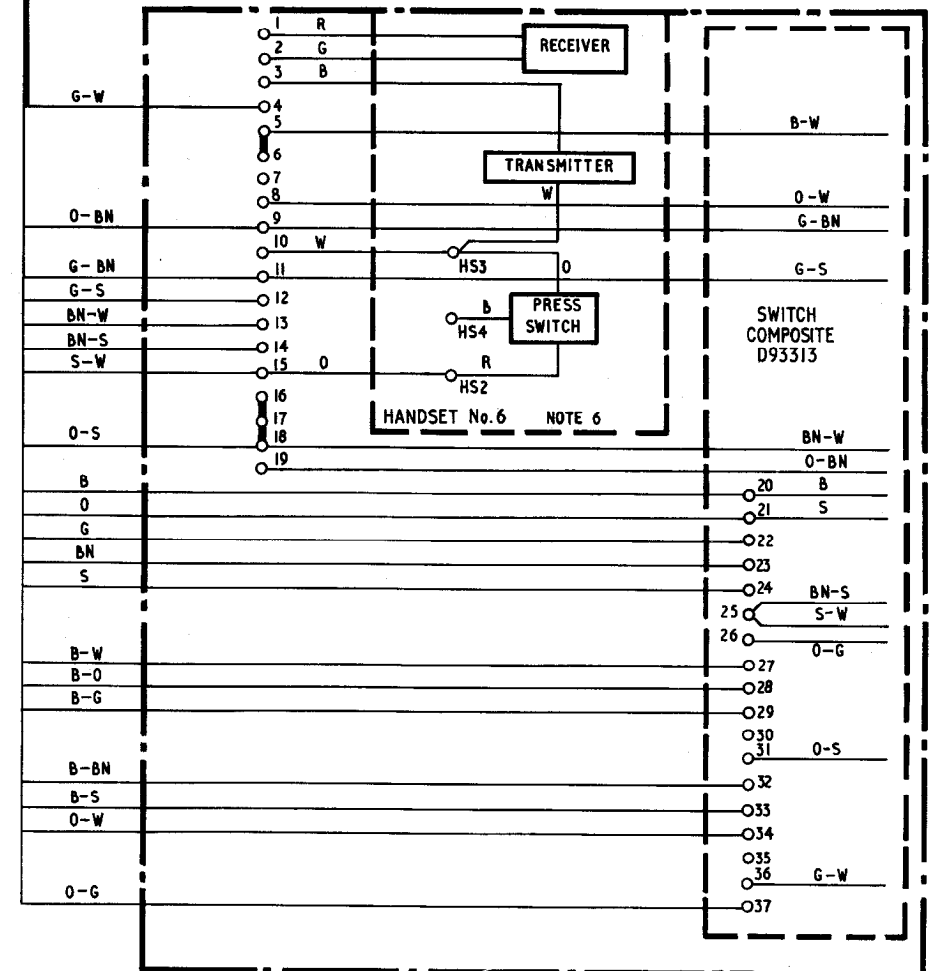


EXTENSION  
WITH BELL CONNECTED  
AS AN EXTENSION BELL  
(NOTES 5,6 & 9)

FOR CONNEXION  
TO BLOCK TERMINAL  
(SEE PAGE 2)

CORD INST No.20/10AD

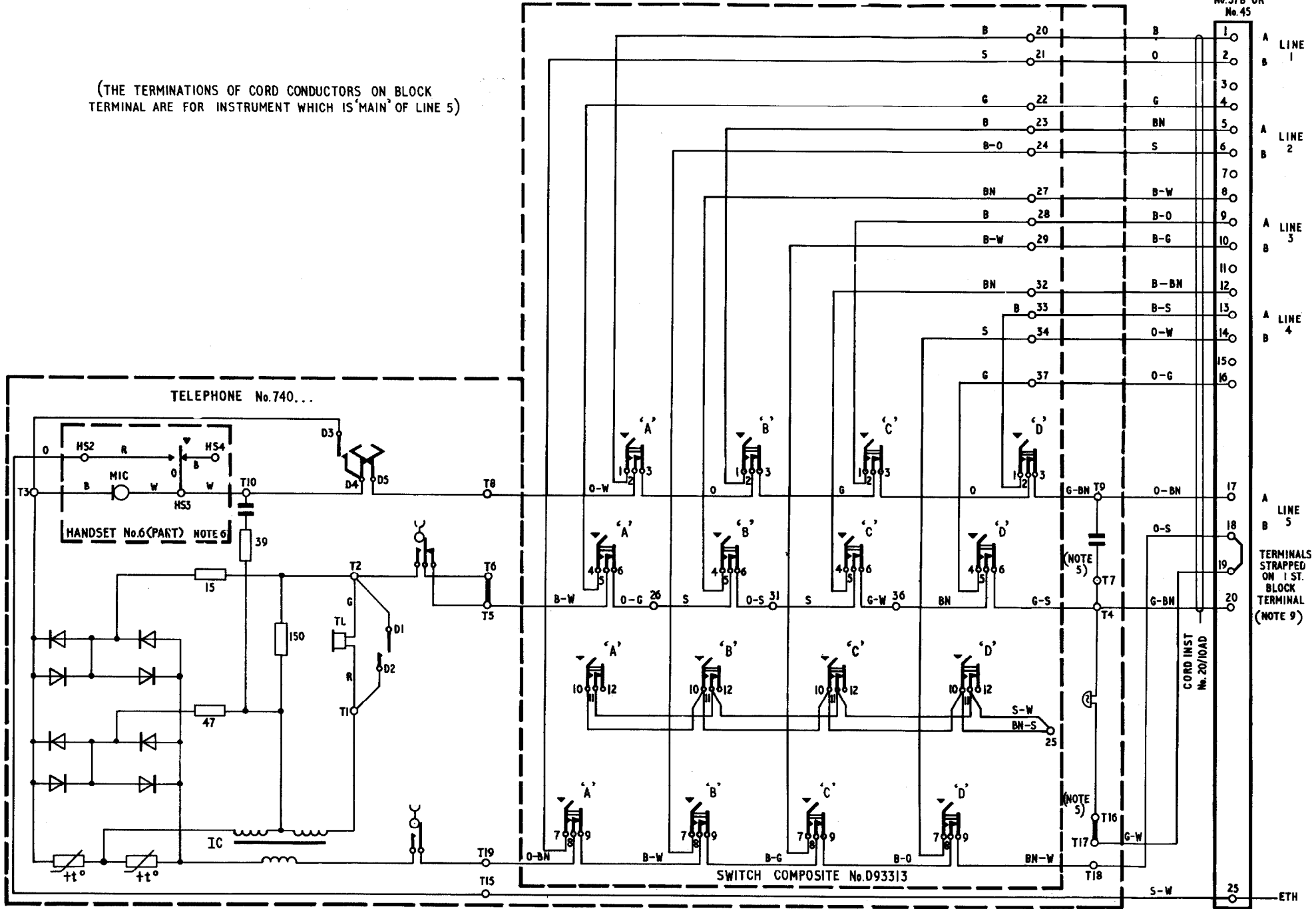
TELEPHONE No. 740



MAIN AND EXTENSION TELEPHONES  
SCHEMATIC DIAGRAM

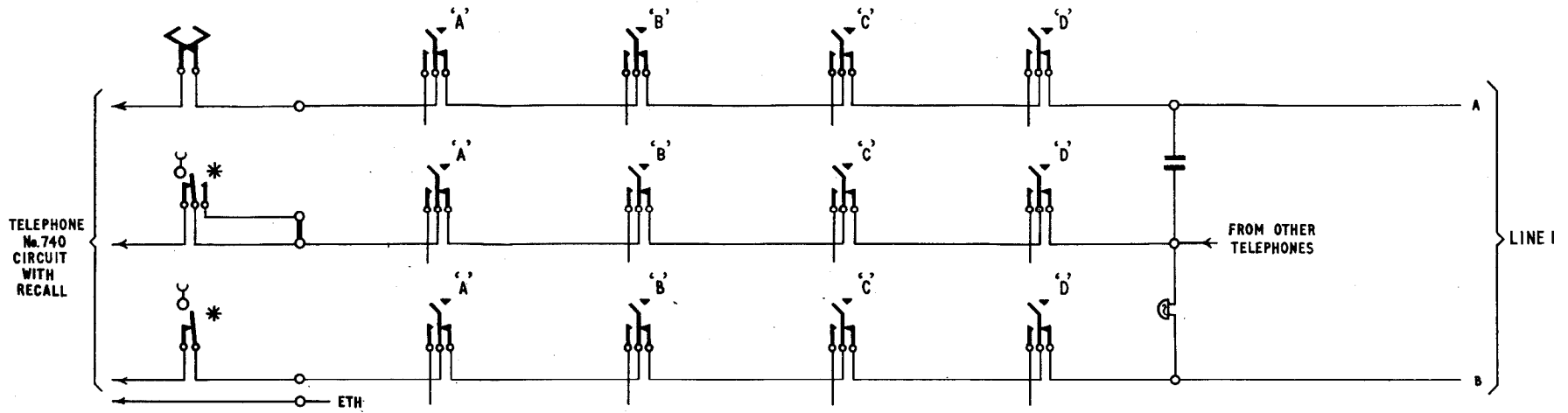
BLOCK  
TERMINAL  
No. 37B OR  
No. 45

(THE TERMINATIONS OF CORD CONDUCTORS ON BLOCK  
TERMINAL ARE FOR INSTRUMENT WHICH IS 'MAIN' OF LINE 5)



A LINE 1  
B LINE 1  
A LINE 2  
B LINE 2  
A LINE 3  
B LINE 3  
A LINE 4  
B LINE 4  
A LINE 5  
B LINE 5  
TERMINALS STRAPPED ON 1 ST. BLOCK TERMINAL (NOTE 9)  
ETH

EXPLANATORY DIAGRAM OF TELEPHONE AND SWITCH COMPOSITE CONNEXIONS  
 MAIN I ENGAGING HOME LINE (ALL BUTTONS NORMAL)



MAIN I ENGAGING LINE 5 (BUTTON 'A' OPERATED)

