

H.E.S. No.4  
 INSTALLATIONS WITH A 2ND CHOICE MAIN STATION.  
 BLOCK SCHEMATIC & CABLING.

Q 505  
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 ISSUE B

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CABLING:-

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NOTES:-

1. For Block Schematic and Cabling of remainder of System see Diagrams  
 Q 502 and 503.
2. Cable 24W(Figs.1 & 3) or Cable 41W (Figs.2,4,5&6) need not follow  
 route taken by Multiple Cable between 1st and 2nd choice Main  
 Stations, but may be run direct.
3. Remove cover of Control Unit Q 537, mount Switch No.5A-8 in  
 Aperture below Keys. Relay Units Q 538 and Q 539 should be mounted  
 in Control Unit with Armature towards Unit base. Relay Unit Q 539  
 is mounted on Buzzer Bracket, Relay Unit Q 538 adjacent to  
 'TRANSFER 1' Key. Replace Cover Plate Part 2/DPL/2135 with Part  
 1/DPL/2135.
4. Spare Conductors to be cut off.
5. E.I. TELEPHONES, Stations, Q 3015 covers Installation of H.E.S. 4.
6. The 1st and 2nd choice Main Stations may be any of the  
 multiple stations.
7. On previous issues of this diagram 21 wire cable was used. The  
 Orange-Green wire used on 24 wire cable, was Black for 21 wire  
 cable.

P.O. TELECOMMS HOURS. PAPER: W CIRCLTN. GENERAL	ISSUE		
		B	NOTE 7 ADDED 24 WIRE WAS 21 WIRE. MINOR AMENDMENTS. <i>P.U.</i> <b>3.4.70.</b>
		A	TABLE 1 AMENDED <i>D.R.L.</i> <b>4.12.68.</b>
		<i>W.P.A.</i>	<i>R.G. Jones</i> TD2.3.3 <b>3.5.68.</b>

TABLE 1. ADDITIONAL APPARATUS REQUIRED WHEN A 2ND CHOICE MAIN STATION IS PROVIDED

Number of non-multiple extensions or private circuits	Equipment required at main station		Equipment required at 2nd-choice main station	
1	Control Unit Q 537 with Cord, Inst., No. 18/04AJ, Grey, 72 in. Relay Unit Q 539 Switch No.5A-8 Part 1/DPL/2135	Block Terminal, No.37...	Control Unit Q 535 with Cord, Inst., No. 18/04AJ, Grey, 72 in.	Block Terminal, No.37...
2	Control Unit Q 537 with Connector No. 1046A, Grey Relay Unit Q 539 Switch No.5A-8 Part 1/DPL/2135	Box, Connexion, No.6A	Control Unit Q 537 with Connector No. 1046A, Grey	Box Connexion, No. 6A
3	Control Unit Q 537 with Connector No. 1046A, Grey Relay Unit Q 538 Relay Unit Q 539 Switch No.5A-8 Part 1/DPL/2135	Box, Connexion, No.6A	Control Unit Q 537 with Connector No. 1046A, Grey	Box, Connexion, No.6A
4	Control Unit Q 537 with Connector No. 1052A, Grey Relay Unit Q 538 Relay Unit Q 539 Switch No.5A-8 Part 1/DPL/2135	Box, Connexion, No.6A	Control Unit Q 537 with Connector No. 1046A, Grey	Box, Connexion, No.6A

FIG. 1. ONE NON-MULTIPLE EXTENSION, PRIVATE CIRCUIT  
OR SWITCHBOARD CIRCUIT.  
BLOCK SCHEMATIC.

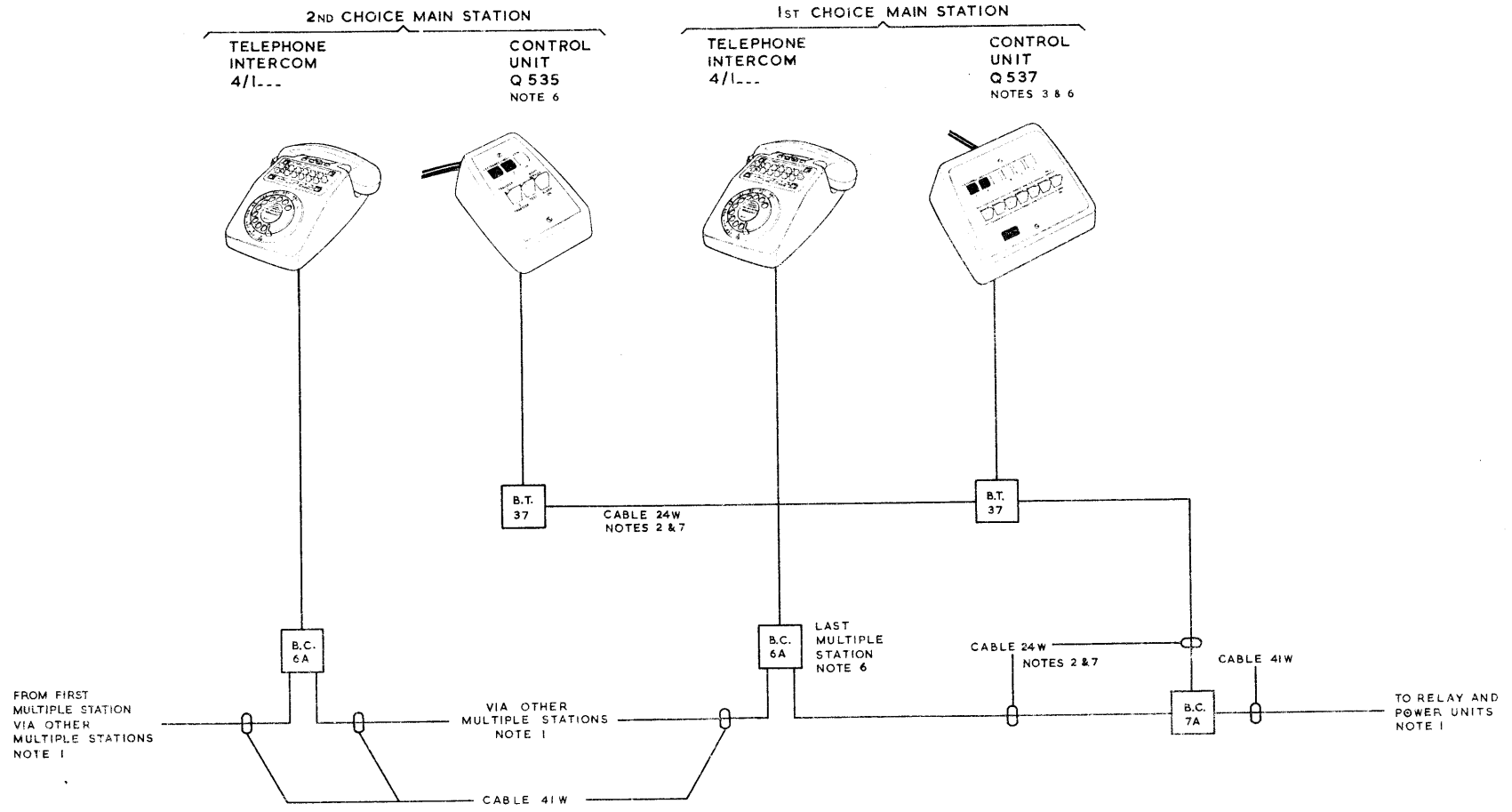


FIG. 2. TWO TO FOUR NON-MULTIPLE EXTENSIONS, PRIVATE CIRCUITS  
OR SWITCHBOARD CIRCUITS.  
BLOCK SCHEMATIC.

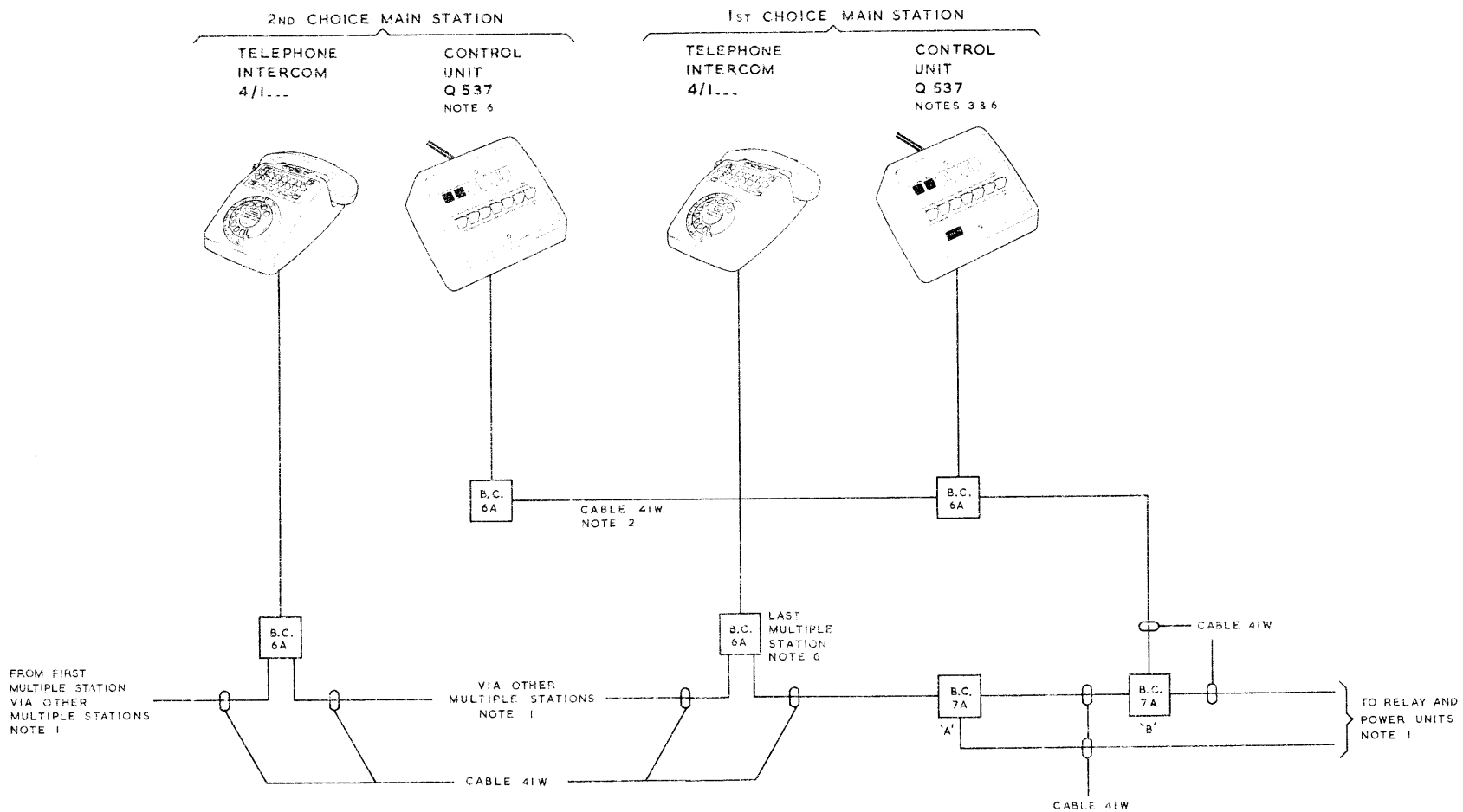
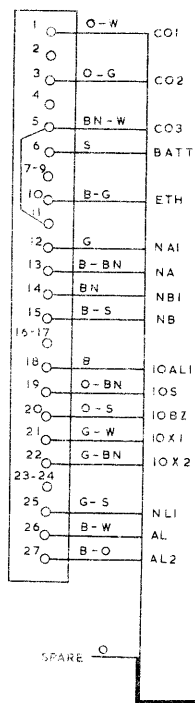


FIG. 3. ONE NON - MULTIPLE EXTENSION, PRIVATE CIRCUIT,  
OR SWITCHBOARD CIRCUIT.  
CABLING.

2ND. CHOICE MAIN STATION NOTE B.

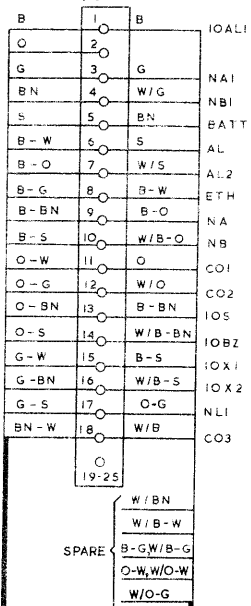
1ST. CHOICE MAIN STATION NOTE A.

CONTROL UNIT Q 535



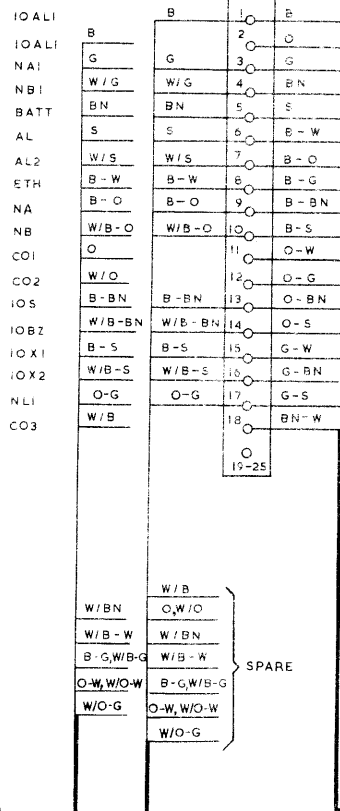
CORD INST.  
No 18/04AJ.

B.T. 37  
NOTE 7



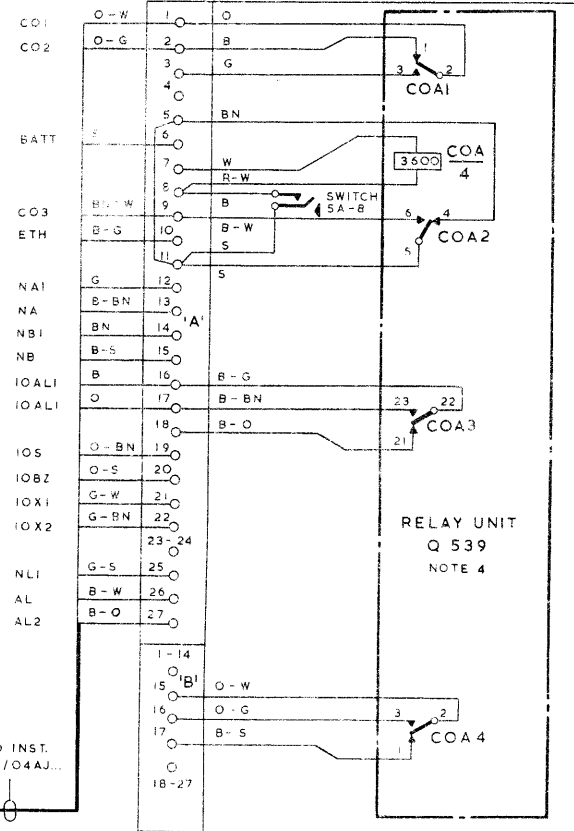
SPARE  
W/BN  
W/B-W  
B-G/W/B-G  
O-W, W/O-W  
W/O-G

B.T. 37  
NOTE 7



CABLE 24W  
NOTE 2.

CONTROL UNIT Q 537



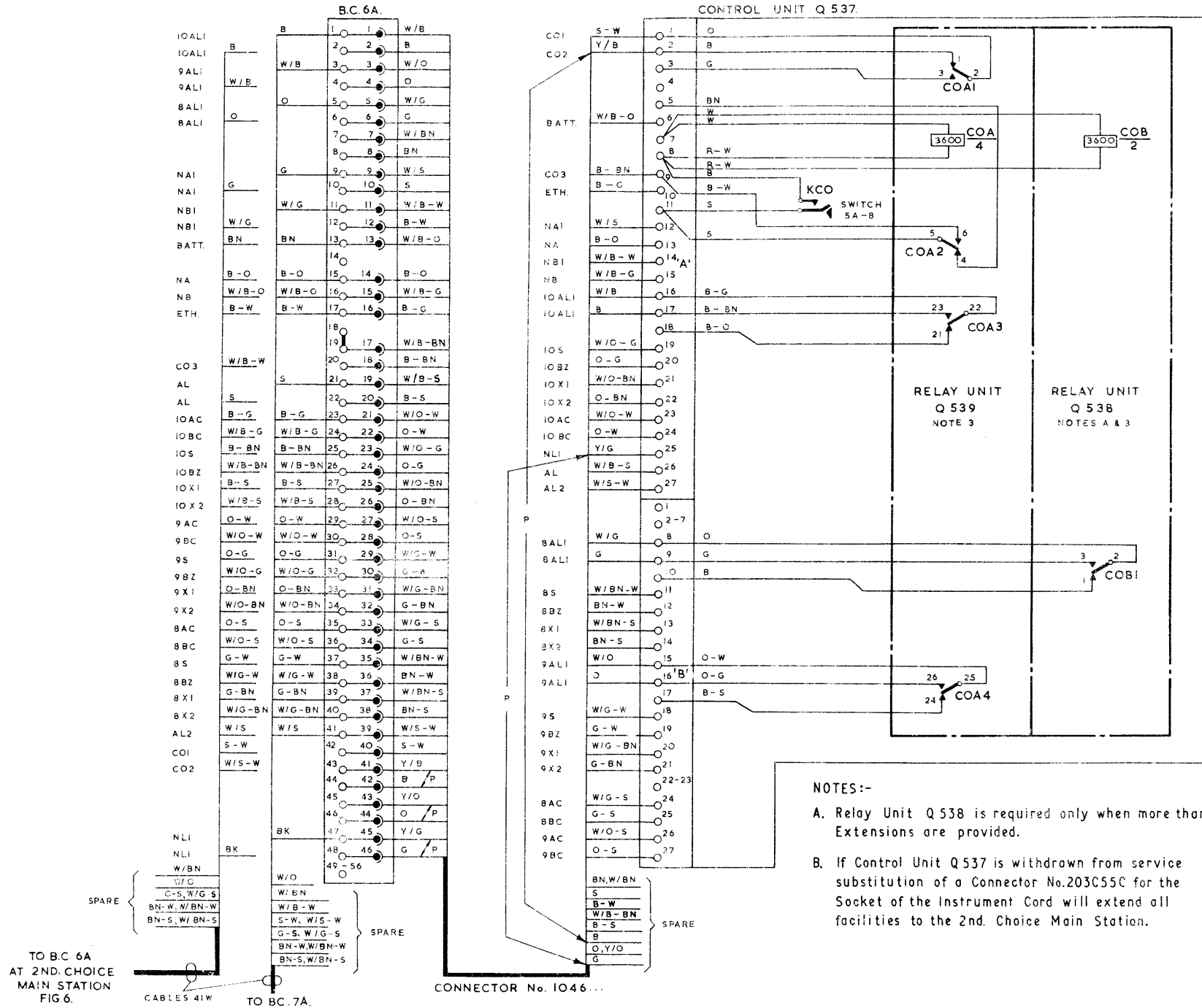
CABLE 24W

TO  
B.C. 7A.

NOTES:-

- A. If Control Unit Q 537 at 1st choice Main Station is withdrawn from service, strap Terminals 1-2, 3-20, 4-21, 8-18, 6-22 and 17-19 in B.T.37 to extend all facilities to 2nd choice Main Station.
- B. If Control Unit Q 535 at 2nd choice main station is withdrawn from service, strap Terminals 11-18 in B.T.37 to prevent mis-operation of 2nd. choice switching key.

FIG. 4. 1ST. CHOICE MAIN STATION  
TWO OR THREE NON-MULTIPLE EXTENSIONS,  
PRIVATE CIRCUITS, OR SWITCHBOARD CIRCUITS. CABLING.



TO B.C. 6A  
AT 2ND. CHOICE  
MAIN STATION  
FIG. 6.

CABLES 41W

TO B.C. 7A.

CONNECTOR No. 1046...

FIG. 5. 1ST. CHOICE MAIN STATION, FOUR NON-MULTIPLE EXTENSIONS, PRIVATE CIRCUITS OR SWITCHBOARD CIRCUITS. CABLING.

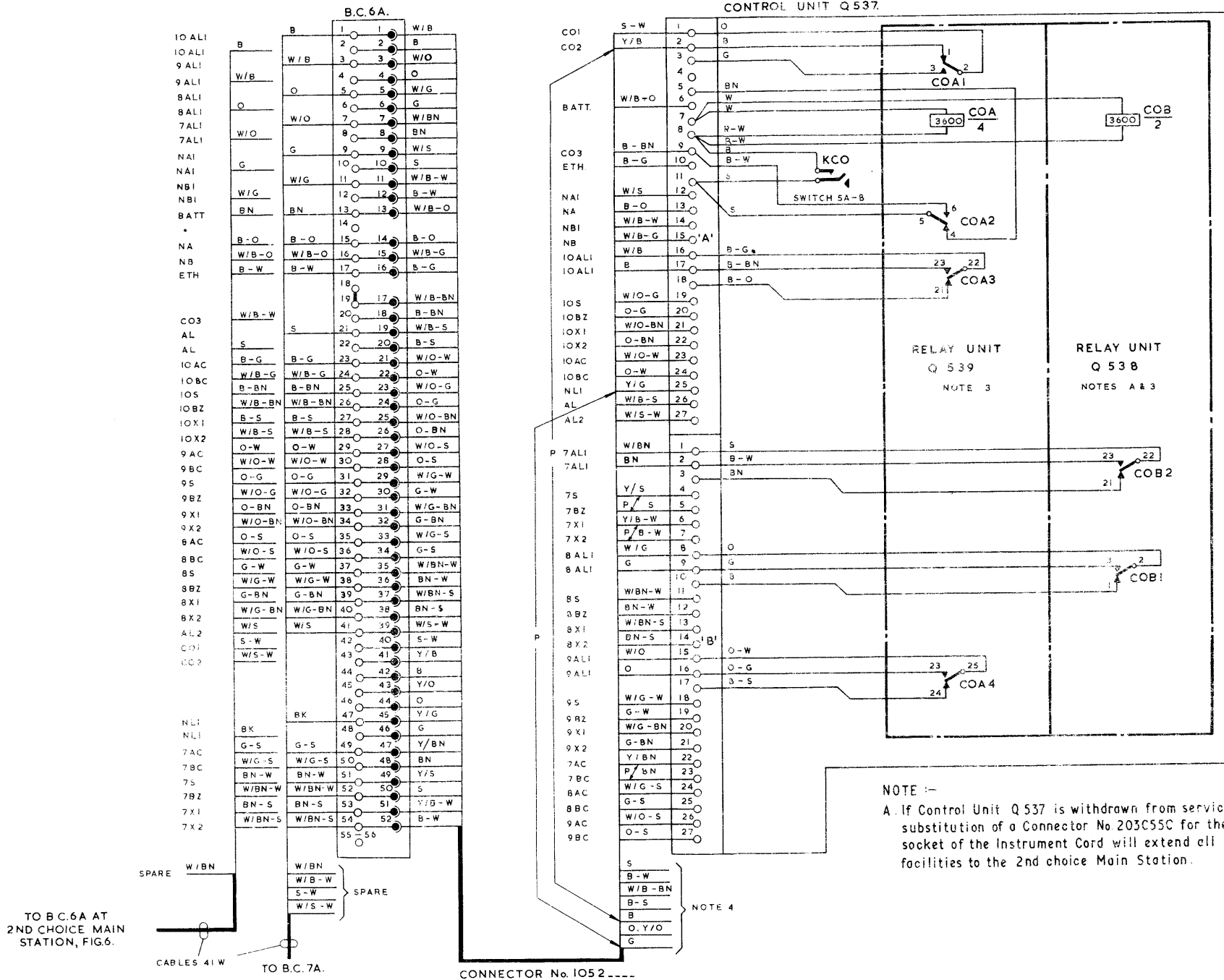
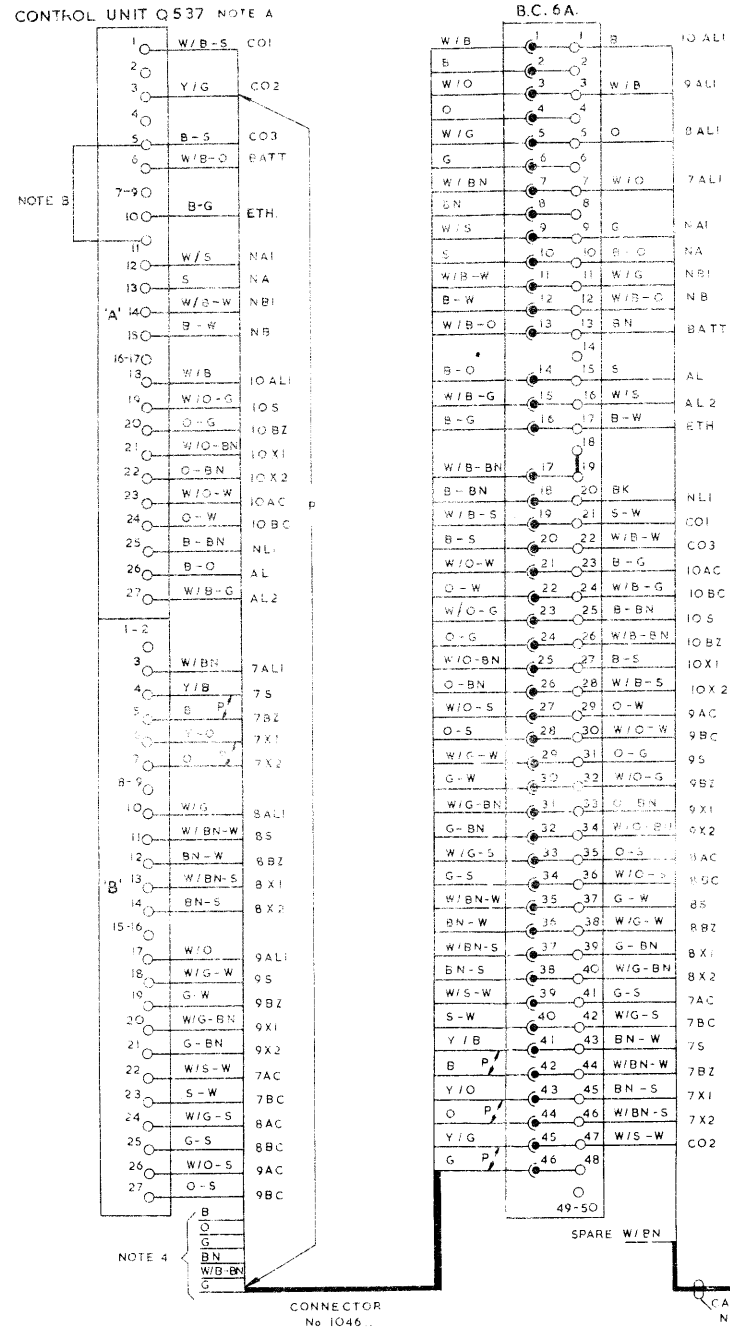


FIG.6. 2ND. CHOICE MAIN STATION,  
 TWO, THREE OR FOUR NON-MULTIPLE EXTENSIONS,  
 PRIVATE CIRCUITS, OR SWITCHBOARD CIRCUITS.  
 CABLING.



NOTES:-

- A. If Control Unit Q537 is withdrawn from service, substitution of a Connector No.203C55C, for the Socket of the Instrument Cord, will guard against mis-operation of 1st. Choice Main Station Switching Key.
- B. Strap terminals 5-11. (Dgm.Q537)