

H.E.S.No.3 (KEYMASTER)

TYPICAL MULTIPLE CONNEXIONS

Q(L)404
4 PANELS-1
12-7-62

WIRING

NOTES

1. AT INSTALLATIONS WITH MULTIPLE STATIONS ONLY WIRE TO PANELS 2 AND 3. WHERE A NON-MULT. EXTN IS FITTED WIRE TO PANELS 2 AND 4. THE NON-MULT. EXTN IS ALWAYS CONNECTED AFTER THE LAST MULTIPLE STATION. WHERE LESS THAN FIVE STATIONS ARE INSTALLED THE UNWANTED SECTIONS OF MULTIPLE CABLE ARE OMITTED.
2. SPARE CONDUCTORS IN THE MULTIPLE CABLE SHOULD BE SECURED NEATLY WITHIN THE BT37A AT EACH STATION, THESE CONDUCTORS ARE USED TO PROVIDE EXTRA FACILITIES. SEE ALSO NOTE 5.
3. THE CONVERTER RINGING No. 7 WHEN USED IS MOUNTED ON FOUR SCREW FIXINGS WITHIN THE POWER UNIT No. 51A.
4. WHEN FITTING THE POWER UNIT No. 51A A MINIMUM CLEARANCE OF 6" SHOULD BE ALLOWED BENEATH THE LOWER EDGE TO ALLOW ACCESS TO THE COVER FIXING SCREWS.
5. THE COLOURS OF THESE SPARE CONDUCTORS WILL DEPEND ON THE CONNEXIONS OF TERMINALS 11 AND 17. THE ENDS OF SPARES SHOULD BE COVERED WITH TAPE INSULATING ADHESIVE.
6. RELAY UNIT Q410 MUST BE FITTED BETWEEN LAST MULT. STN. AND LINE OF NON-MULT. EXTN.
7. CONNECT INTERCOM SIGNALLING WIRE TO TERM. 17 (Q410) AS FOLLOWS:-

WHERE Q410 FOLLOWS STN. No.	CONNECT TOGETHER		USE WIRE COLOUR
	IN Q410	IN BT37A AT LAST MULT. STN.	
4	TRM'L No. 17	TRM'L No. 15	W/BLU-WH
3	" " "	" " 15	W/BLJ-OR
2	" " "	" " 14	BLU-WH
1	" " "	" " 13	W/SL

- TO CALL MAIN STN FROM NON-MULT. EXTN. VIA RELAY UNIT Q 410 TRM'L II IN RELAY UNIT TO BE CONNECTED AS FOLLOWS:-
- IF STN. PRECEDING RELAY UNIT IS MAIN STN. CONNECT TO TRM'L II OF BT.37A AT THAT STN.
- OTHERWISE CONNECT TRM'L II (Q410) TO LAST BT.37A IN MULT. USING BT. 37A TRM'L 12 IF STN. 1 IS MAIN STN.
- " " " 13 " 2 " "
- " " " 14 " 3 " "
- WIRE USED TO BE SELECTED FROM SPARES TO MATCH COLOUR OF WIRE ALREADY ON BT.37A.
8. FOR CONNEXION OF TELEPHONE INTERCOM. No. 3/1 TO BT.37A SEE DGM. Q(L)424.

9. STRAP TO COMPLETE BELL CIRCUIT.

TITLE WAS H.E.S. 1+5

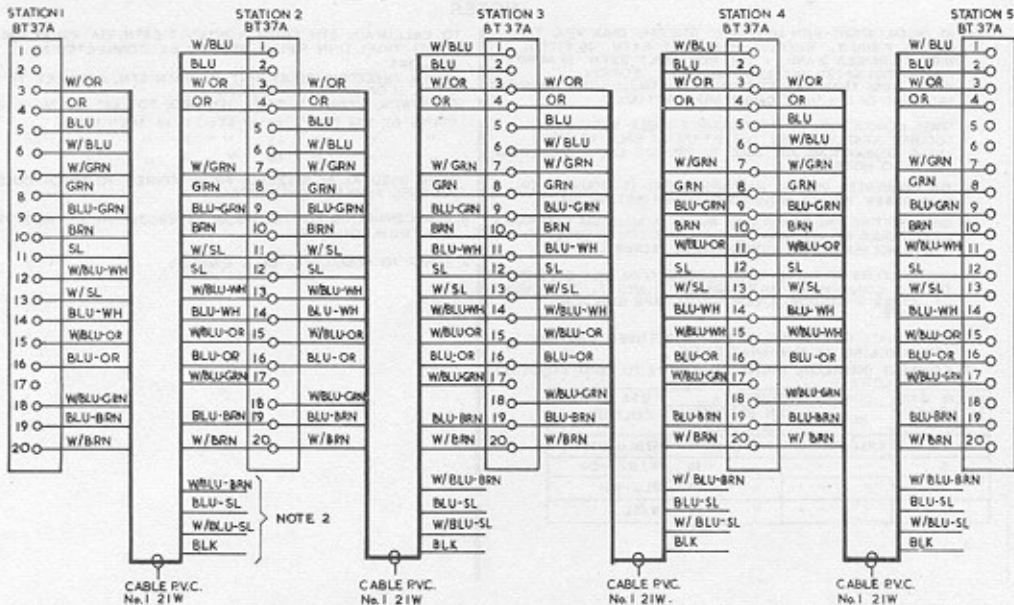
B.S. 631A

CIRCULATION
GENERAL

Amend

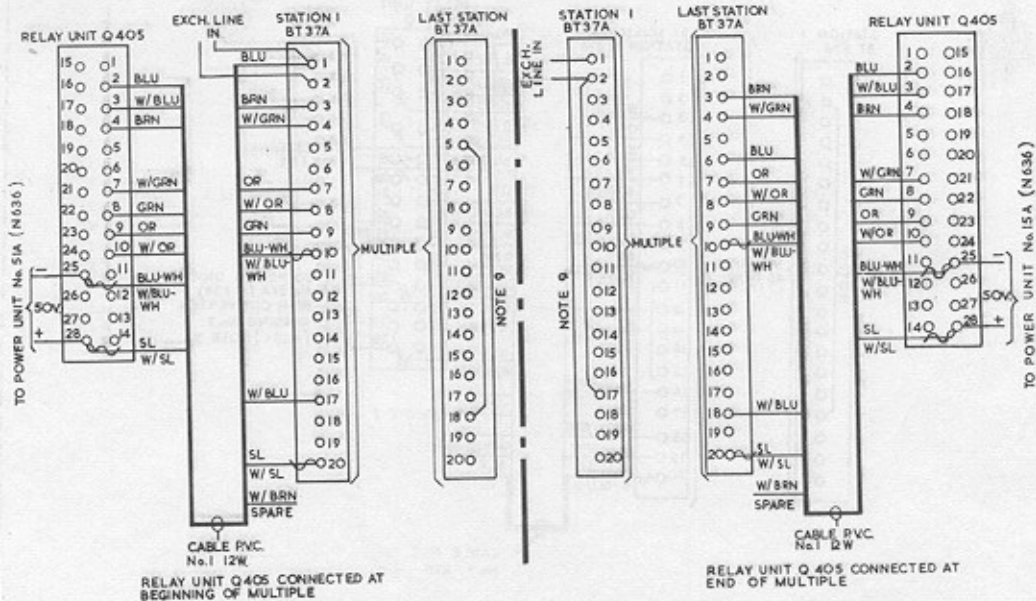
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CABLING BETWEEN FIVE MULTIPLE STATIONS (NOTE 1)



H.E.S. No. 3 (KEYMASTER)
 TYPICAL MULTIPLE CONNECTIONS (WIRING)
 CABLING TO RELAY UNIT Q405 FOR USE AT INSTALLATIONS WITH
 MULTIPLE STATIONS ONLY

Q(L)404
 4 PANELS-3
 12-7-62



H.E.S. No. 3
 RELAY UNIT Q 405
 COMMON EQUIPMENT

Q(L)405

ISSUE B

APPARATUS SCHEDULE	
CODE	ITEM
FL	RELAY No. 15063
IL	RELAY No. 15065
RG	RELAY No. 15069
MR1	RECTIFIER 1/12/AZ
C1	CAPACITOR, ELECTROLYTIC No. 4007 (NOTE 5)
C2	CAPACITOR, PAPER No. 7725 (NOTE 4)
C3	CAPACITOR, PAPER No. 7536

NOTES :-

- INTERCOM SPEECH CURRENT OBTAINED VIA IL RELAY, WHICH OPERATES TO TELEPHONE LOOP.
- RG RELAY OPERATES TO EXCHANGE RINGING AND RG1 LIGHTS EXCHANGE ENGAGED LAMPS.
- DURING EXCHANGE LINE HOLD CONDITIONS, EARTH ON D WIRE TERMINAL 7 OPERATES FL RELAY. FL1 DISCONNECTS FL RELAY. C1 SLOWLY RECHARGES THROUGH FL RELAY. ON RELEASING, FL1 REMAKES AND FL RELAY REOPERATES. CYCLE IS REPEATED AS LONG AS EARTH IS MAINTAINED ON D WIRE. FL2 PULSING FLASHES EXCHANGE ENGAGED LAMPS.
- FIRST ISSUES OF THIS UNIT HAVE A CAPACITOR MC 102C.
- CAPACITOR, ELECTROLYTIC No. 4007 IN CLIP No. 52D REPLACES CAPACITOR, ELECTROLYTIC No. 3117 AND CLIP No. 52E USED IN EARLY SUPPLIES OF THIS UNIT.

SCHEMATIC

