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CIRCUIT NOTES 102. MANUAL TELEPHONE SETS WITH NO RATING GIVEN MAY BE OBTAINED ONLY BY TELEPHONE CO. CONVERSION OF DIAL SETS. IOI. PROVIDE THE KEY TELEPHONE SET IN ACCORDANCE WITH REQUIREMENTS AS INDICATED IN THE FOLLOWING TABLE. THE CORD CONDUCTOR COLORS ARE SHOWN UNDER THE DESIGNATIONS OF THE TERMINALS IN THE SET EXCEPT WHERE "D" APPEARS WHICH INDICATES THAT THE CONDUCTOR IS DEAD-ENDED IN THE SET. AND WHERE "DD" APPEARS WHICH INDICATES THAT THE SPADE TIP OF THE CONDUCTOR IS TAPED AND DRESSED UNDER TERMINAL PLATE OF KEY TO TO OR HEADSET CUT-OFF SIGNALING TELEPHONE SET LINE LINE AND BUSY LAMPS SDADE FFATURES PROVIDED FOR STATIONS LAMP LAMP LAMP LAMP LAMP HOLD RING TIP BAL HOLD GND RING TIP RING TIP BAL HOLD R B RING TIP BAL HOLD RING TIP HOLD RING TIP HOLD RING TIP RAI EXCL SIGNAL (SEE NOTE 102) DIAL (5HB) CKT. CORD BAL BAL STATION CONTROL KEY DESIGNATIONS OF THE TERMINALS IN THE SET (SEE NOTES 302, 303 8 304) KEY LAMPS CODE RATING CODE RATING FIG. CODE ARRANGEMENT CODE S | 15 | 25 | 35 | CR | CT | E1 | E2 | E3 | E4 | A | A | LG | IL | 2L | 3L | 4L | 5L | A | X IR IT IS IN 2R 2T | DD | D | 2B | 2H | 3R | 3T | DD | D | 3B | 3H | 4R | 4T | DD | D | 4B | 4H | 5R | 5T | D | 5B | 5H | G BR-R BR-G BR-Y BR-BK R-G R-Y 440EE STD. 440EG STD. 1 DI4A R G Y BK BL BR-BL BR-W R-G R-Y R-BK R-BL R-W G-Y RR-RI RR-W SELDE 441 EG STD. I DIBC R G Y BK BL BR-R BR-G BR-Y BR-BK HO PO PO PO 444EE STD. 444EG STD. | DI8C R-W G-Y R-G R-Y R-BK R-BL R G Y BK BL BR-R BR-G BR-Y BR-BK BR-BL BR-W 56LDE R-W G-Y G-BK G-BL G-W Y-BK R-G R-Y R-BK R-BL SELDE 445EE 445EG STD. | D22B R G Y BK BL BR-R BR-G BR-Y BR-BK BR-BL BR-W 440FG STD. | DI2A 444FG STD. | DI6B BR-Y 561D 440FF R G Y BK BL BR-R BR-G RR-RK 40 PO PO 50 R G Y BK BL 561 DF BR-R BR-C R-Y R-G R-RK R-RI RR-Y RR-RI RR-W BR-BK PR-RI BR-W 440GE 440GG STD. I DIZA R G Y BK BL BR-R BR-G BR-Y BR-BE HO PO PO CO 561DG 460GG STD. | D22B R-BL R-W G-Y R G Y BK BL W BR-R BR-G BR-Y BR-BK BR-BL BR-W R-G R-Y R-BK Ho Po Po Po Po Po Y-BL Y-W BK-W BL-W BK-BL SL BR-SL G-W Y-BK 562DG 464GE STD 464GG STD. | D29A BR-G BR-Y BR-BK BR-W R-G R-Y R-BL R-W G-Y R G Y BK BL BR-G BR-Y BR-BK BR-W R-G R-Y R-BK R-BL R-W G-Y G-BK G-BL G-W Y-BK Y-BL Y-W BK-W BL-W BK-BL SL BR-SL R-SL G-SL Y-SL 465GE 465GG STD I D32A R G Y BK BL BR-R BR-BL G-BK G-BL R-BK R-BL R-W 460HF 460HG STD. | D20B R G Y BK BL W BR-R BR-G BR-Y BR-BK BR-BL BR-W R-G R-Y R-W BK-W BL-W G-W Y-BK Y-BL Y-W G-BL Ho Po Po Po Po So AGAH 464HG STD | D26B R G Y BK BL BR-R BR-G BR-Y BR-BK BL-BLI BR-W R-G R-Y R-BK R-BI G-W R-W G-Y G-BK G-BL Y-BL Y-W BK-W BL-W BK-BL SL BR-SL ASSHE 465HG STD. 2 D29A R G Y BK BL BR-W R-G R-Y Ho Po Po Po Po Co R G Y BK BL BR-G BR-Y BR-BK BR-W R-G R-Y G-W Y-BK R-W G-Y G-BK G-BL Y-BL Y-W BK-W BL-W BK-BL SL BR-SL 465KG STD | D29A BR-R IR-BK HO PO PO PO SO CO R-BK R-BL R-W G-Y G-BK G-BL BK-W BL-W G-W Y-BK Y-BL Y-W R-G 46511 465LG STD. 1 D29A R G Y BK BL BR-R BR-G BR-Y BR-BK BR-V R-G R-BK R-W G-Y R-BL 460ME R G Y BK BL W BR-R BR-G BR-Y BR-BK BR-BI BR-W 460MG STD. I DISC Ho Po Po Po So So 464MG STD. 1 D22B R G Y BK BL BR-R BR-G BR-Y BR-BK BR-BL BR-W R-W G-BK G-W Y-BK R-G R-Y R-BK R-BL G-BL 569N AGAME R-W G-Y G-BK G-BL BK-W BL-W G-W Y-BK Y-BL Y-W R-BL R G Y BK BL 465ME 465MG STD. | D268 BR-G BR-Y BR-BK R-G R-BK HO PO PO SO SO SO R-W G-Y G-BK G-BL G-W Y-BK R-G R-Y R-BK R G Y BK BL BR.R BR-BR-Y BR-BL BR-W 465 NE 465NG STD. | D22B CONNECT S-R CONDENSER LEAD AS FOLLOWS: WHEN SET RINGER IS USED FOR A COMMON RINGER OR WHEN A BUZZER IS USED, CONNECT S-R CONDENSER LEAD TO WHEN THE EXCLUSION KEY IS USED WITH KEY TELEPHONE SYSTEM NO. IA THE Y-BK. BK-W. G-Y AND R-Y LEADS FROM THE EXCLUSION KEY MAY BE CONNECTED TO THE RESPECTIVE BALANCE, HOLD, TIP AND RING 301. PROVIDE "M" WIRING WHEN THE BUZZER IS TO OPERATE ON 60 CYCLE A-C, AND PROVIDE "N" WIRING TERMINALS OF ANY LINE ON WHICH IT IS DESIRED TO PROVIDE EXCLUSION IF ALL FOUR TERMINALS WHEN THE BUZZER IS TO OPERATE ON D-C. WHEN SET RINGER IS USED FOR A LINE RINGER CONNECT S-R CONDENSER LEAD TO "R" TERMINAL OF LINE WITH WHICH THE RINGER IS ASSOCIATED. ARE AVAILABLE, WHEN USED WITH KEY TELEPHONE SYSTEM NO IAI, THE Y-BK LEAD IS CONNECTED TO AND "IT" TERMINALS RESPECTIVELY FOR SET RINGER TO BE USED AS A LINE RINGER ON LINE I. THEY MAY BE CONNECTED BY THE INSTALLER TO OTHER "R" AND "T" TERMINALS. WHEN THE RINGER IS 306. TO EMPLOY THE EXCLUSION KEY AS MEANS TO CUT-OFF A COMMON RINGER OR BUZZER IN A TELEPHONE SET MAKE 310. SETS ARE WIRED IN THE SHOP FOR PICKING UP AND HOLDING FOUR LINES. TWO PRIVATE OR INTER-THE FOLLOWING CONNECTIONS: USED FOR A PRIVATE LINE OR AS A COMMON RINGER OR WHEN A BUZZER IS USED CHANGE THE CORD CONDUCTOR SHOWN CONNECTED TO TERMINAL "A" IN THE COLUMN UNDER THE ASTERISK IN THE TABLE R-Y AND G-Y EXCLUSION KEY LEADS TO TERMINAL "A". BL EXCLUSION KEY LEAD TO TERMINAL "E2". CORD CONDUCTOR LISTED IN TABLE O FOTE IOL AS CONNECTED TO TERMINAL "E2" CHANGE TO TERMINAL "E1". RED RINGER OR BUZZER LEAD TO TERMINAL "E-2". BLACK RINGER OR BUZZER LEAD, YELLOW AND SLATE CONDENSER COMMUNICATING LINES MAY BE USED WITH A COMMON SIGNALING KEY BY LEAVING THE O LEAD CONNECTED TO "J3" AND TRANSFERING THE BR LEAD TO TERMINAL "S". THREE PRIVATE OR INTERCOMMUNICATING OF NOTE IOI TO TERMINAL "K" INSTEAD.

302. SETS ARE WIRED IN THE SHOP WITH RED RINGER AND YELLOW CONDENSER LEADS CONNECTED TO "IR"

SETS ARE WIRED IN THE SHOP WITH THE G-W AND R-W LEADS FROM THE CUT-OFF KEY CONNECTED TO TERMINALS "2T" AND "2R" RESPECTIVELY TO CUT-OFF EXTENSION STATIONS FROM LINE 2. THESE LEADS MAY BE CONNECTED BY THE INSTALLER TO OTHER "R" AND "T" TERMINALS. THE "A" LEAD SHALL BE CONNECTED TO THE CONNECTING BLOCK "A " TERMINAL OF THE SAME LINE.

304. MAKE RINGER, BUZZER AND CUT-OFF CONNECTIONS AS FOLLOWS:

COLOR OF WIRES IN SET		RINGER AND CONDENSER CONNECTIONS		CUT-OFF CONNECTIONS		
		R	Y	BK-W	G-W	R-W
SET RINGER USED AS INDIVIDUAL LINE RINGER ON T & R OF ANY LINE, EXCEPT PRIVATE LINES	N SET	R	т	_	_	_
SET RINGER USED FOR A PRIVATE LINE OR AS COMMON RINGER OR BUZZER USED AS COMMON OR INTERCOMMUNICATING SIG.		Α	К	-	_	_
SET RINGER USED AS A LINE RINGER WHEN CUT-OFF KEY IS OPERATED TO SUBSTITUTE SET RINGER FOR EXTERNAL STATION OR RINGER. CONNECT S-R COND. LEAD TO R OF LINE.		×	т	×	R	т
CUT-OFF KEY ON T AND R OF ANY LINE	S	_	-	X	T	R
HEAD RECEIVERS USED AS LISTENING IN SETS	NA	_	_	X	GN	R
CUT-OFF SET RINGER OR BUZZER WHEN USED AS A PRIVATE LINE, COMMON OR INTERCOMMUNICATING SIGNAL	TERMINA	CT	К	×	A	CR
CUT-OFF SET RINGER WHEN USED AS A LINE RINGER		CR	CT	X	Т	R
RINGER IN SET NOT USED		A	A	_	_	_

307 PROVIDE "Y" WIRING FOR METALLIC RETURN. (METALLIC RETURN SHALL ALWAYS BE PROVIDED WHEN THE BATTERY IS NOT LOCATED IN THE SAME BLDG AS THE KEY TELL SYSTEM OR WHEN IT IS LOCATED IN THE SAME BLDG. AND IT IS CHARGED OVER METALLIC RETURN FEEDERS. METALLIC RETURN SHALL ALSO BE USED ON A-C SUPPLY). "Z" WIRING FOR CABLE SHEATH RETURN (CABLE SHEATH RETURN SHALL ONLY BE USED WHEN THE BATTERY IS LOCALLY GROUNDED AND LOCATED IN THE SAME BLDG. AS KEY TEL. SYSTEM.)

308. SETS ARE WIRED IN THE SHOP FOR USE WITH KEY TELEPHONE SYSTEM NO IA REQUIRING BALANCE AND HOLD LEADS AS SHOWN IN TABLE BELOW. CONNECTIONS MUST BE CHANGED FOR USE WITH KEY TELEPHONE SYSTEM NO. IAI REQUIRING AUXILIARY CONTROL LEADS AS SHOWN IN TABLE.

	ONE END CONNECTING TO		L-1	KEY	KEY
WIRES IN TEL. SET COLOR		R-G	R	Y	BK
CONNECT TO TERMINALS	FOR KEY TELEPHONE SYSTEM NO. IA	18	N	R	M
	FOR KEY TELEPHONE SYSTEM NO. IAI	N	R	M	N

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IB AND THE BK-W, G-Y AND R-Y LEADS ARE CONNECTED TO THE RESPECTIVE HOLD, TIR AND RING TERMINALS OF ANY LINE ON WHICH IT IS DESIRED TO PROVIDE EXCLUSION.

LINES MAY BE USED WITH A COMMON SIGNALING KEY BY LEAVING THE BR LEAD CONNECTED TO "J2" AND TRANSFERING THE OLEAD FROM J3 TO TERMINAL "S". THE "H" TERMINALS FOR THESE LINES ARE THEN CONNECTED TO THE SIGNALING LEADS "S" OR "S!" ASSOCIATED WITH THE CORRESPONDING LINES. THE AUTOMATIC CUTOFF FEATURE OF THE IAI KEY TEL. SYS. CANNOT BE USED ON LINES WITH THE COMMON SIGNALING KEY.

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