

INFORMATION NOTES:

301. OFFICE WIRING LIST RECORDS NEED NOT BE MAINTAINED FOR ZA, ZB AND ZG OPTIONS
302. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS.

BATTERY SYMBOL VOLTAGE RANGE
-48V 45-50V

WORKING LIMITS
LIMITS ARE FOR SINGLE OFFICE AREAS
FOR MULTI-OFFICE AREAS, AND FOR OPERATOR PULSING, SEE
KEY SHEETS

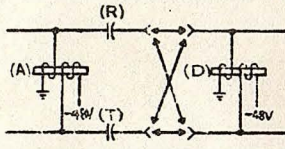
TYPE OF DIAL OR ADJ	45V MIN			CALLED STA SUPV		48V MIN			CALLED STA SUPV	
	PULSING FROM SUB			ADJ A		PULSING FROM SUB			ADJ A	
	2, 4 OR 5	6	7	ADJ A	ADJ B	2, 4 OR 5	6	7	ADJ A	ADJ B
MAX EXT CKT LOOP	750	1200	1100	1000	1400	850	1500	1400	1115	1500
MAX EXT CKT LOOP**	850	1400	1300	1000	1400	1000	1500	1500	1115	1500
MAX EXT CKT LOOP***	1000	1400	1400	1000	1400	1115	1500	1500	1115	1500
MIN INS RES	15,000			15,000		15,000			15,000	

*WHEN USING 1000 LOOP - LEAK B IN PULSING TEST SET
**WHEN USING 1200 LOOP - LEAK A IN PULSING TEST SET
***WHEN USING 1400 LOOP - LEAK A IN PULSING TEST SET

TRIPPING RANGES

TYPE OF RINGING AND DISTRICT	RINGING INTERVAL VOLTAGE			SILENT INTERVAL VOLTAGE	CODE OF (F) RELAY	OPTIONS	RATING	MAX EXT CKT LOOP FOR TRIPPING			
	NO. 1	NO. 350A						ADJA	ADJB	ADJC	
AC-DC	64-88 ⁽¹⁾ AC & 45-52 DC	72-88 OR 84-88 AC & 45-52 DC		45-52	222DG	E	STD ⁽¹⁾	1030	—	1400	
				48-52	222DG	E	STD ⁽¹⁾	1115	—	1500	
SUPERIMPOSED TUBE, ±5V EP	84-88 ⁽¹⁾ AC & 37-40 ⁽³⁾ DC	72-88 OR 84-88 AC & 37-40 ⁽³⁾ DC		45-52	222DG	E	STD ⁽¹⁾	1030	—	1400	
				48-52	222DG	E	STD ⁽¹⁾	1115	—	1500	
				60-75	222DG	E	MD	—	1500	—	
SUPERIMPOSED INVERTED 42A AND TUBE	84-88 ⁽¹⁾ AC & 37-40 ⁽³⁾ DC	72-88 OR 84-88 AC & 37-40 ⁽³⁾ DC		60-75	222DJ	F	ABM	1040	—	—	
				60-75	222DJ	F	ABM	900	—	—	
SUPERIMPOSED 42A, INVERTED 42A AND TUBE	76-80 ⁽²⁾ AC & 42-46DC	72-88 OR 84-88 AC & 37-40DC		60-75	222DJ	F	ABM	900	—	—	

- (1) 72-88 & 80-88 AC ARE ABM IN NO.1.
(2) 64-80 & 72-80 AC ARE ALSO ABM IN NO.1.
(3) 64-80, 72-80, OR 76-80AC & 42-46DC ARE ALSO ABM IN NO.1 & 350A.

TRANSMISSION TEST REQUIREMENTS (1000 CYCLES LOSS BETWEEN 600 OHM LINES)					
			MAX ALLOWABLE CIRCUIT LOSS (db)		
			Y OPTION		0.9
			X OPTION		0.7
ALLOWABLE INDIVIDUAL APPARATUS LOSSES (db)					
APPARATUS	DESIG	CODE	MAX LOSS	MIN LOSS	REMARKS
CAPACITOR	R	2UF	14	11.5	SEE NOTE
CAPACITOR	T	2UF	14	11.5	
RELAY	A	221A	0.3		Y OPTION
RELAY	D	222Y	0.3		
RELAY	A	221ND	0.3		X OPTION
RELAY	D	222KR	0.3		
NOTE: WHERE THE (T) AND (R) CAPACITORS ARE PART OF A MULTI-UNIT CAPACITOR, THE IND LOSSES OF THE (T) AND (R) CAPACITORS SHALL BE WITHIN 0.5 db OF EACH OTHER.					

FIGURES AND OPTIONS ON THIS DWG	
CKT FIG.	APP OR WIRING
1	Z ZA
2	Y ZB
	X ZC
	W ZD
	V ZE
	U ZF
	T ZG
	S ZH
	R ZI
	Q ZJ
	P ZK
	N ZL
	M ZM
	K ZN
	J ZO
	H ZP
	G ZQ
	F ZR
	E ZS
	ZT
	B ZU
	A ZV
	VV
	TY

CONNECTOR CIRCUIT
LOCAL LEVEL HUNTING
BELL TELEPHONE LABORATORIES
INCORPORATED

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