DIODES AND VARISTORS

IDENTIFICATION

1. GENERAL

1.01 This section covers general information pertaining to diodes and varistors used with station apparatus. Diodes and varistors which form component parts of station apparatus are not listed as they normally are not ordered separately. For a complete list and description of all types of diodes and varistors refer to the Western Electric Company Apparatus Card Catalog.

1.02 This section is reissued to:

- Add 400J, 426N, and 446F diodes
- Add 104A varistor

Since this reissue covers a general revision, arrows have been used to indicate significant changes only.

1.03 Refer to appropriate section in Division 032 for precautions to be taken while working with diodes and varistors.

2. IDENTIFICATION

- 2.01 Fig. 1 shows the diodes used in station apparatus and Table A lists their description and application.
- **2.02** Fig. 2, 3, and 4 shows the varistors used in station apparatus and Table B lists their description and application.

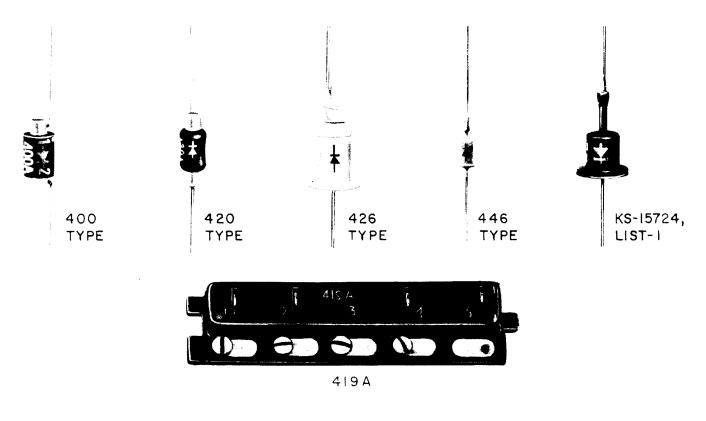


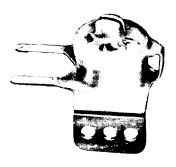
Fig. 1—Diodes

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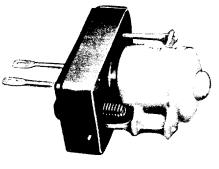
T	A	B	L	E	A

DIODES

	TYPE	DESCRIPTION	USE	
→	400A		Key telephone units, 55A (MD) control unit	
	400E	Germanium crystal rectifier with wire terminals	Ringup circuit key telephone unit, 1B telephone answering set, 570-type telephone set	
	400J		247B key telephone unit	
	419A	Four germanium crystal rectifiers wired to terminal block	Polarizing network for 151A amplifier used in telephone sets	
	420B	Hermetically sealed silicon alloy with wire terminals	Dial restriction on multikey sets, 570-type telephone set	
	426E	Silicon diode in metal case with wire terminals	Surge protector in 8A and 9A an- nouncement systems	
Г	426N	terminais	AC1 or AD1 telephone base	
	446F	Hermetically sealed silicon diffused junction with wire terminals	402A and 404A key telephone unit	
L		Germanium rectifier in metal case with wire terminals	Busy lamp circuit, 1A1 and 1A2 key telephone systems, 55A (MD) control unit	
	KS-15724, List 1	Caution: The outside case forms part of the electrical circuit of the rectifier. Do not allow case to contact other com- ponents of the set.		



3B



33L

Fig. 2—Varistors

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TABLE B

VARISTORS

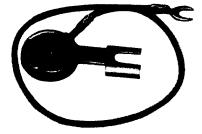
TYPE	FIG.	DESCRIPTION	USE	
3B	2	Two 3/4-inch diameter copper-oxide discs on mounting bracket	Reduces clicks in receiver units. Re- places 3A (MD) varistor	
20A		Nine 3/4-inch diameter copper-oxide discs on mounting bolt	531 (MD) and 687 subscriber sets	
27B	4	Eight 3/4-inch diameter copper-oxide discs on insulated base	Ringup relay circuit in key telephone	
30A	1	Nine 3/4-inch diameter copper-oxide discs on mounting bracket	units	
31A	3	Four 3/16-inch diameter copper-oxide discs sealed in insulating material	Reduces clicks on postpay coin col- lectors	
33L	2	Four 3/4-inch diameter copper-oxide discs on insulated base	Reduces clicks in receiver units. Re- places 4A (MD) and 33A (MD) varistors	
37A			Reduces noise on coin collectors	
37B	3	Two 1/2-inch diameter copper-oxide discs. One terminal used for mounting	Reduces noise on telephone sets which use 101-type induction coils	
37C			Reduces noise on D-type (MD) hand set mountings	
44A		Two 1/2-inch diameter copper-oxide discs in a metal case		
100 A		Two silicon discs encased in resin with wire terminals	Reduce clicks in receiver units	
104A	4	Two germanium diffused junction ele- ments molded in a common encapsula- tion with wire terminals		
307A		Silicon-carbide disc on mounting bracket	103A key equipment	
313B		Silicon-carbide disc on mounting bolt	32A key telephone unit	
316A		Two 3/4-inch silicon-carbide discs in a metal case	Prevents false relay operation 1A1 and 1A2 key equipment ringup circuit	

TABLE	В	(Cont)
VAR	IS	rors

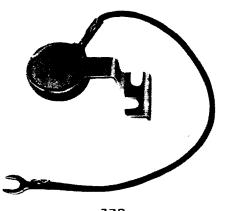
TYPE	FIG.	DESCRIPTION	USE	
317A	4	A 3/4-inch silicon-carbide disc with a coating of insulating material and wire terminals	Ringup circuit 1A1 and 1A2 key equip- ment	
317B	тв		Holding bridge 507A and B PBX trunks	



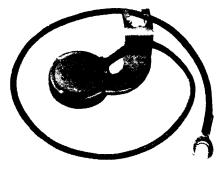
31A



37A







37C

Fig. 3—Varistors

