

11A EXTENDER

IDENTIFICATION, INSTALLATION, AND CONNECTIONS

1. GENERAL

1.01 This section provides identification, installation, and connection information on the 11A extender used to extend the range of selective (superimposed) ringing, and to provide ringer isolation on all lines using grounded ringers.

1.02 This section is reissued to:

- Revise Table A
- Change Fig. 3
- Add Tables B through K.

1.03 The 11A is weatherproof and mounts in a centralized location on the subscriber's premises, normally next to the protector block. One 11A is required per main station instead of one per phone.

1.04 The 11A can be used in place of the 425A and 426A gas tubes, 426N diode, and 10A extender to provide additional ringing range and ringer isolation on four party full selective and

eight party semiselective ringing. In addition, the unit can be used in place of the D-180036 ringer isolator to provide ringer isolation on one and two party lines as well as on multiparty divided code lines.

2. IDENTIFICATION

2.01 The 11A extender is a solid-state, polarity sensitive, voltage controlled electronic switch which connects the ringer(s) in the subscriber's station set(s) into the circuit when the proper polarity and level of ringing voltage is applied. Approximately 100 volts peak is required between tip and ring to trigger the 11A extender.

2.02 The 11A extender consists of a printed circuit board incased in a weatherproof housing. The unit is normally mounted next to the protector block as shown in Fig. 1. A six screw terminal strip is provided on the back of the unit (Fig. 2) to make connections. Station wire can be used to connect the 11A extender to the protector.

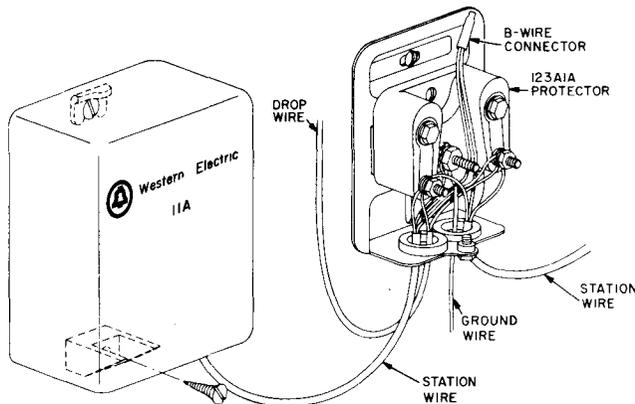


Fig. 1—11A Extender, Typical Installation

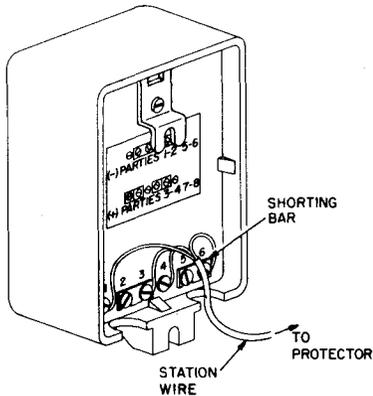


Fig. 2—11A Extender—Showing Terminal Strip

3. DESIGN FEATURE AND RINGING RANGE

3.01 The 11A extender and ringing range provide isolation for all grounded ringers. It can be used effectively on lines having inductive noise.

3.02 The 11A extender may be used on all grounded ringers including those used in 4-party full selective and 8-party semiselective ringing service.

3.03 Ringing range is increased on 4-party full selective and 8-party semiselective service by eliminating the large voltage drop across the gas tube which is normally used for this type of ringing. With the isolation provided by the 11A extender, the weak bias spring notch setting on the ringer can be used.

3.04 Only one 11A Extender is used per party instead of one per phone as with other ringing devices.



The maximum number of ringers that can be connected to one 11A extender is five (one main station plus four extensions), range permitting. Extension stations may be wired to connecting block or to the protector. For additional information on ringing limitations, refer to Section 500-114-100.

3.05 If one subscriber on a party line is equipped with an 11A Extender, a like connection is required for all other parties of the same polarity on the same side of the line.

3.06 The ringer is always used in a series connection even for 4-party full selection and 8-party semi-selective service.

3.07 The 11A extender draws negligible DC current even when used with superimposed ringing and therefore does not have the pretrip problems sometimes associated with gas tubes or 10A extender.

3.08 Lines equipped with 11A extenders will test open when tested for continuity by conventional test desk procedures.



The 11A Extender will not work with some revertive call selectors in a 355A SXS office without modification to the selector. These selectors, SD-31631-01 (4-party, semiselective) and SD-31762-01 (10-party, divided code) apply the same ringing voltage to tip and ring simultaneously and therefore do not provide a voltage difference between tip and ring to trigger the 11A Extender.

4. INSTALLATION AND CONNECTIONS

4.01 The 11A Extender usually mounts next to the subscribers protector block. Connections are made between the terminal strip on the back of the 11A Extender and the protector block, using station wire (Fig. 1 and 2).

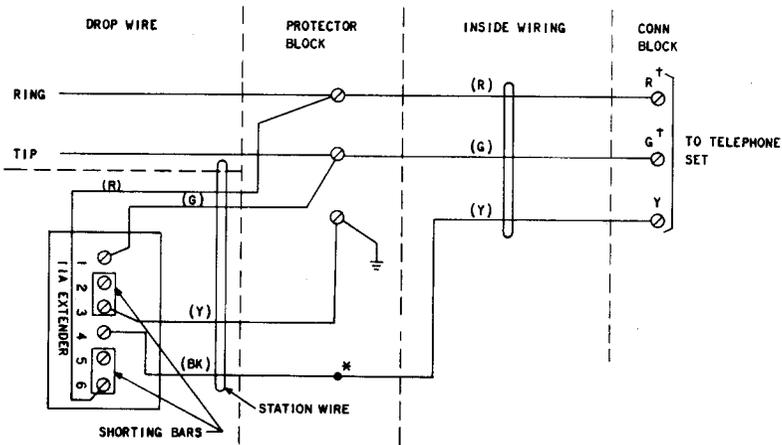
4.02 The terminal strip on the 11A Extender has two shorting bars that must be positioned as shown in Tables A through K.



Proper polarity must be observed at the extender as well as at the telephone set.

4.03 Fig. 3 and 4 shows typical connection arrangements for an 11A Extender, negative ring party and positive ring party respectively. Refer to Table A for connections.

4.04 Refer to appropriate Table (A through K) for telephone set connection information.



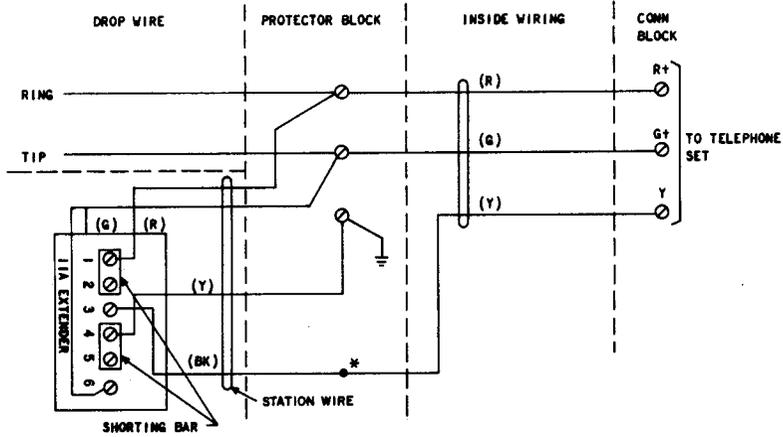
* USE "B" WIRE OR 700-TYPE CONNECTOR
 † FOR NEGATIVE TIP PARTY (WITHOUT ANI) REVERSE RING AND TIP (ROTARY DIAL TELEPHONE SETS ONLY) THIS WOULD BE PARTIES 2 AND 6.

NEGATIVE RING PARTY

THIS CONNECTION APPLIES TO:

- A. SINGLE PARTY WITH GROUNDED RINGER
- B. RING PARTY ON TWO PARTY LINES
- C. PARTIES 1 AND 5 ON 4 PARTY FULL SELECTIVE AND 8 PARTY SEMISELECTIVE LINES
- D. RING PARTIES ON DIVIDED CODE LINES

Fig. 3—11A Extender, Negative Ring Party (Typical Connections)



- * USE "B" WIRE OR 700-TYPE CONNECTOR
- † FOR POSITIVE TIP PARTY (PARTIES 4 AND 8)
REVERSE RING AND TIP
(ROTARY DIAL TELEPHONE SETS ONLY)

POSITIVE RING PARTY
THIS CONNECTION APPLIES TO PARTIES 3 AND 7 ON 4 PARTY
FULL SELECTIVE AND 8 PARTY SEMISELECTIVE LINES.

Fig. 4—11A Extender, Positive Ring Party (Typical Connections)

TABLE A
500C/D TELEPHONE SET
11A EXTENDER, LINE, AND RINGER CONNECTIONS

WIRE OF LEADS	COLOR	RING (-) PARTY 1 OR 5	TIP (-) PARTY 2 OR 6	RING (+) PARTY 3 OR 7	TIP (+) PARTY 4 OR 8	TWO PARTY TIP IDENT GRD		
						1000Ω	2650Ω	
E X T E N D E R	SH Bars		2 & 3	2 & 3	1 & 2	1 & 2	4 & 5	4 & 5
	Across Term.		5 & 6	5 & 6	4 & 5	4 & 5	5 & 6	5 & 6
	Wire To Prot	R G Y BK	6 1 3 4	1 6 3 4	1 6 4 3	6 1 4 3	1 4 2 3	1 4 2 3
P R O T E C T O R	Wire from Ext	R G Y BK	Ring Tip Grd *	Ring Tip Grd *	Ring Tip Grd *	Ring Tip Grd *	Ring Tip Grd *	Ring Tip Grd *
	Inside Wire to Conn Blk	R G Y BK	Ring Tip * —	Ring Tip * —	Ring Tip * —	Ring Tip * —	Ring Tip Grd * —	Ring Tip Grd * —
C O N N B L K	Inside Wire From Prot	R G Y BK	R G Y —	R G Y —	R G Y —	R G Y —	R G Y B	R G Y B
	Mtg Cord at Conn Blk †	R G Y BK	R G Y —	G R Y —	R G Y —	G R Y —	G R Y B	G R Y B
T E L S E T	Mtg Cord in Set †	R G Y BK	L2 L1 G —	L2 L1 G —	L2 L1 G —	L2 L1 G —	L2 L1 G A	L2 L1 G A
	Line Switch Lead	S	L2	L2	L2	L2	L2	L2
	Ringer Leads	R BK S S-R	L2 G K A	L2 G K A	L2 G K A	L2 G K A	K G B B	B B K G

* Connect these leads together using B-Wire or 700-type connectors.

† If tip party identifying ground is required, 3 conductor mounting cord must be changed to 4 conductor.

TABLE B
2500D TELEPHONE SET
11A EXTENDER, LINE, AND RINGER CONNECTIONS

WIRE OF LEADS		COLOR	RING (-) PARTY 1 OR 5	TIP (-) PARTY 2 OR 6	RING (+) PARTY 3 OR 7	TIP (+) PARTY 4 OR 8	TWO PARTY TIP IDENT GRD	
							1000Ω	2650Ω
EXTENDER	SH Bars		2 & 3	2 & 3	1 & 2	1 & 2	4 & 5	4 & 5
	Across Term.		5 & 6	5 & 6	4 & 5	4 & 5	5 & 6	5 & 6
	Wire to Prot	R	6	1	1	6	1	1
		G	1	6	6	1	4	4
	Y	3	3	4	4	2	2	
	BK	4	4	3	3	3	3	
PROTECTOR	Wire From Ext	R G Y BK	Ring Tip Grd *	Ring Tip Grd *	Ring Tip Grd *	Ring Tip Grd *	Ring Tip Grd *	Ring Tip Grd *
	Inside Wire to Conn-Blk	R G Y BK	Ring Tip * —	Ring Tip * —	Ring Tip * —	Ring Tip * —	Ring Tip Grd * —	Ring Tip Grd * —
CONN BLK	Inside Wire From Prot	R G Y BK	R G Y —	R G Y —	R G Y —	R G Y —	R G Y B	R G Y B
	Mtg Cord at Conn Blk †	R G Y BK	R G Y —	R G Y —	R G Y —	R G Y —	G R Y B	G R Y B
TELESET	Mtg Cord in Set †	R	L2	L2	L2	L2	L2	L2
		G	L1	L1	L1	L1	L1	L1
		Y	G	G	G	G	G	G
BK		—	—	—	—	—	A	A
Line Switch Leads	W	F	F	F	F	F	C	C
	S BR	L2 C	L2 C	L2 C	L2 C	L2 C	L2 F	L2 F
Ringer Leads	R	L2	L1	L2	L1	L1	K	B
	BK	G	G	G	G	G	G	B
	S	K	K	K	K	K	B	K
	S-R	A	A	A	A	A	B	G

* Connect these leads together using B-Wire or 700-type connectors.

† If tip party identifying ground is required, 3 conductor mounting cord must be changed to 4 conductor.

TABLE C
554-TYPE TELEPHONE SET
11A EXTENDER, LINE, AND RINGER CONNECTIONS

WIRE OF LEADS		COLOR	RING (-) PARTY 1 OR 5	TIP (-) PARTY 2 OR 6	RING (+) PARTY 3 OR 7	TIP (+) PARTY 4 OR 8	TWO PARTY TIP IDENT GRD	
							1000Ω	2650Ω
E X T E N D E R	SH Bars		2 & 3	2 & 3	1 & 2	1 & 2	4 & 5	4 & 5
	Across Term.		5 & 6	5 & 6	4 & 5	4 & 5	5 & 6	5 & 6
	Wire to Prot	R	6	1	1	6	1	1
		G	1	6	6	1	4	4
Y		3	3	4	4	2	2	
BK	4	4	3	3	3	3	3	
P R O T E C T O R	Wire from Ext	R G Y BK	Ring Tip Grd *	Ring Tip Grd *	Ring Tip Grd *	Ring Tip Grd *	Ring Tip Grd *	Ring Tip Grd *
	Inside Wire to Tel Set Base	R G Y BK	Ring Tip *	Ring Tip *	Ring Tip *	Ring Tip *	Ring Tip Grd *	Ring Tip Grd *
T E L S E T	Inside Wire from Prot	R G Y BK	L2 L1 G —	L1 L2 G —	L2 L1 G —	L1 L2 G —	L1 L2 G A	L1 L2 G A
	Line Switch Lead	S	L2	L2	L2	L2	L2	L2
	Ringer-Leads	R BK S S-R	L2 G K A	L2 G K A	L2 G K A	L2 G K A	L2 G K A	K G B B

* Connect these leads together using B-Wire or 700-type connectors.

TABLE D
2554B TELEPHONE SET
11A EXTENDER, LINE, AND RINGER CONNECTIONS

WIRE OR LEADS	COLOR	RING (-) PARTY 1 OR 5	TIP (-) PARTY 2 OR 6	RING (+) PARTY 3 OR 7	TIP (+) PARTY 4 OR 8	TWO PARTY TIP IDENT GRD		
						1000Ω	2650Ω	
E X T E N D E R	SH Bars		2 & 3	2 & 3	1 & 2	1 & 2	4 & 5	4 & 5
	Across Term.		5 & 6	5 & 6	4 & 5	4 & 5	5 & 6	5 & 6
	Wire to Prot	R	6	1	1	6	1	1
		G	1	6	6	1	4	4
	Y	3	3	4	4	2	2	
	BK	4	4	3	3	3	3	
P R O T E C T O R	Wire From Ext	R	Ring Tip Grd †	Ring Tip Grd †	Ring Tip Grd †	Ring Tip Grd †	Ring Tip Grd †	Ring Tip Grd †
		G						
		Y						
		BK						
	Inside Wire to Set	R	Ring Tip †	Ring Tip †	Ring Tip †	Ring Tip †	Ring Tip Grd †	Ring Tip Grd †
		G						
		Y						
		BK						
T E L S E T †	Inside Wire From Prot	R	2	1	2	1	2	2
		G	1	2	1	2	1	1
		Y	3	3	3	3	3	3
		BK	—	—	—	—	A	A
	Line Switch Leads	W	F	C	F	C	F	F
		S	A	A	A	A	*	*
		BR	C	F	C	F	C	C
		R	K	K	K	K	K	K
		BK	3	3	3	3	3	3
	S	*	*	*	*	B	*	
	S-R	*	*	*	*	*	B	

* Insulate and store

† Connect these leads together using B-Wire or 700-type connectors.

‡ Early production models also had a (BL) ringer lead which should be insulated and stored for all applications.

TABLE E
2554-TYPE TELEPHONE SET
WITH 4228K NETWORK, 11A EXTENDER, LINE, AND RINGER CONNECTIONS

WIRE OR LEADS	COLOR	RING (-) PARTY 1 OR 5	TIP (-) PARTY 2 OR 6	RING (+) PARTY 3 OR 7	TIP (+) PARTY 4 OR 8	TWO PARTY TIP IDENT GRD		
						1000Ω	2650Ω	
EXTENDER	SH Bars		2 & 3	2 & 3	1 & 2	1 & 2	4 & 5	4 & 5
	Across Term.		5 & 6	5 & 6	4 & 5	4 & 5	5 & 6	5 & 6
	Wire to Prot	R	6	1	1	6	1	1
		G	1	6	6	1	4	4
	Y	3	3	4	4	2	2	
	BK	4	4	3	3	3	3	
P ROTECTOR	Wire From Ext	R	Ring Tip	Ring Tip	Ring Tip	Ring Tip	Ring Tip	Ring Tip
		G	Grd	Grd	Grd	Grd	Grd	Grd
	Y	†	†	†	†	†	†	†
	BK							
	Inside Wire to Set	R	Ring Tip	Ring Tip	Ring Tip	Ring Tip	Ring Tip	Ring Tip
		G	†	†	†	†	Grd	Grd
		Y	—	—	—	—	†	†
		BK						
TELESET	Inside Wire From Prot	R	L2	L1	L2	L1	L2	L2
		G	L1	L2	L1	L2	L1	L1
		Y	G	G	G	G	G	G
		BK	—	—	—	—	A	A
	Line Switch Leads	W	F	C	F	C	F	F
		S	A	A	A	A	*	*
		BR	C	F	C	F	C	C
	Ringer Leads	R	K	K	K	K	K	K
		BK	G	G	G	G	G	G
		S	*	*	*	*	B	*
		S-R	*	*	*	*	*	B

* Insulate and store

† Connect these leads together using B-Wire or 700-type connectors.

TABLE F
702B TELEPHONE SET
11A EXTENDER, LINE, AND RINGER CONNECTIONS

WIRE OR LEADS		COLOR	RING (-) PARTY 1 OR 5	TIP (-) PARTY 2 OR 6	RING (+) PARTY 3 OR 7	TIP (+) PARTY 4 OR 8	TWO PARTY TIP IDENT GRD	
							1000Ω	2650Ω
E X T E N D E R	SH Bars		2 & 3	2 & 3	1 & 2	1 & 2	4 & 5	4 & 5
	Across Term.		5 & 6	5 & 6	4 & 5	4 & 5	5 & 6	5 & 6
	Wire to Prot	R G Y BK	6 1 3 4	1 6 3 4	1 6 4 3	6 1 4 3	1 4 2 3	1 4 2 3
P R O T E C T O R	Wire from Ext	R G Y BK	Ring Tip Grd †	Ring Tip Grd †	Ring Tip Grd †			
	Inside Wire to Conn Blk	R G Y BK	Ring Tip †	Ring Tip †	Ring Tip †	Ring Tip †	Ring Tip Grd †	Ring Tip Grd †
C O N N B L K	Inside Wire From Prot	R G Y BK	R G Y —	R G Y —	R G Y —	R G Y —	R G Y B	R G Y B
	From Dial Light Trnsf	Y BK	Y B	Y B	Y B	Y B	Y §	Y §
	Mtg Cord at Conn Blk ¶	R G Y BK W	R G Y B Y	G R Y B Y	R G Y B Y	G R Y B Y	G R Y B §	G R Y B §
T E L S E T	Mtg Cord in Set ¶	R G Y BK W	L2 L1 G 4‡ 3‡	L2 L1 G 4‡ 3‡	L2 L1 G 4‡ 3‡	L2 L1 G 4‡ 3‡	L2 F 3‡ A 4‡	L2 F 3‡ A 4‡
	Line Switch Leads	W [S-W] S	F A	F A	F A	F A	B *	B *
	Ringer Leads	R BK S S-R	K G * *	K G * *	K G * *	K G * *	K 3‡ L1 *	K 3‡ * L1

[] Indicates earlier designation.

* Insulate and store.

† Connect these leads together using B-Wire or 700-type connectors.

‡ Terminals on lamp terminal block.

§ Connect (W) mounting cord to dial light transformer lead using B-wire connector.

¶ For use with 11A extender, 5 conductor mounting cord is required.

TABLE G
2702B TELEPHONE SET
11A EXTENDER, LINE, AND RINGER CONNECTIONS

WIRE OR LEADS	COLOR	RING (-) PARTY 1 OR 5	TIP (-) PARTY 2 OR 6	RING (+) PARTY 3 OR 7	TIP (+) PARTY 4 OR 8	TWO PARTY TIP IDENT GRD		
						1000Ω	2650Ω	
EXTENDER	SH Bars		2 & 3	2 & 3	1 & 2	1 & 2	4 & 5	4 & 5
	Across Term.		5 & 6	5 & 6	4 & 5	4 & 5	5 & 6	5 & 6
	Wire to Prot	R G Y BK	6 1 3 4	1 6 3 4	1 6 4 3	6 1 4 3	1 4 2 3	1 4 2 3
PROTECTOR	Wire From Ext	R G Y BK	Ring Tip Grd †	Ring Tip Grd †	Ring Tip Grd †	Ring Tip Grd †	Ring Tip Grd †	Ring Tip Grd †
	Inside Wire to Conn Blk	R G Y BK	Ring Tip † —	Ring Tip † —	Ring Tip † —	Ring Tip † —	Ring Tip Grd †	Ring Tip Grd †
CONN BLOCK	Inside Wire From Prot	R G Y BK	R G Y —	R G Y —	R G Y —	R G Y —	R G Y BK	R G Y BK
	From Dial Light Trnsf	Y BK	Y BK	Y BK	Y BK	Y BK	Y §	Y §
	Mtg Cord at Conn Blk ¶	R G Y BK W	R G Y B Y	G R Y B Y	R G Y B Y	G R Y B Y	G R Y B §	G R Y B §
TELESET **	Mtg Cord in Set ¶	R G Y BK W	L2 L1 G 4‡ 3‡	L2 L1 G 4‡ 3‡	L2 L1 G 4‡ 3‡	L2 L1 G 4‡ 3‡	L2 C 3‡ A 4‡	L2 C 3‡ A 4‡
	Line Switch Leads	W BR S	F C A	C F A	F C A	C F A	B F *	B F *
	Ringer Leads	R BK S S-R	K G * *	K G * *	K G * *	K G * *	K 3‡ L1 *	K 3‡ * L1

* Insulate and store.

† Connect these leads together using B-Wire or 700-type connectors.

‡ Terminals on Lamp Terminal Block.

§ Connect (W) mounting cord to dial light transformer using B-Wire connector.

¶ For use with 11A extender, 5 conductor mounting cord is required.

** If set has (BK) lead terminated on network terminal A, disconnect, insulate and store.

TABLE H
220A AND 2220B TELEPHONE WITH AC-TYPE BASE
11A EXTENDER, LINE, AND RINGER CONNECTIONS

WIRE OR LEADS	COLOR	RING (-) PARTY 1 OR 5	TIP (-) PARTY 2 OR 6	RING (+) PARTY 3 OR 7	TIP (+) PARTY 4 OR 8	TWO PARTY TIP IDENT GRD	
						APP 2000~	
E X T E N D E R	SH Bars		2 & 3	2 & 3	1 & 2	1 & 2	4 & 5
	Across Term.		5 & 6	5 & 6	4 & 5	4 & 5	5 & 6
	Wire to Prot	R G Y BK	6 1 3 4	1 6 3 4	1 6 4 3	6 1 4 3	1 4 2 3
P R O T E C T O R	Wire from Ext	R G Y BK	Ring Tip Grd †	Ring Tip Grd †	Ring Tip Grd †	Ring Tip Grd †	Ring Tip Grd †
	Inside Wire To Base	R G Y BK	Ring Tip † —	Ring Tip † —	Ring Tip † —	Ring Tip † —	Ring Tip Grd †
A C I B A S E	Inside Wire from Prot	R G Y BK	L2 L1 3 —	L1 L2 3 —	L2 L1 3 —	L1 L2 3 —	L1 L2 3 A
	From Dial Light Trnsf	Y BK	3 1	3 1	3 1	3 1	3 1
	Line Switch Lead	S	A	A	A	A	*
	Ringer Leads	R BK S S-R	K 3 * *	K 3 * *	K 3 * *	K 3 * *	K 3 B *
	Handset Cord Jack ‡	R G	C F	F C	C F	F C	F C

* Insulate and store.

† Connect these leads together using B-wire or 700-type connectors.

‡ Handset cord jack on 2220B only.

TABLE I
220A AND 2220B TELEPHONE WITH ADI BASE
11A EXTENDER, LINE, AND RINGER CONNECTIONS

WIRE OR LEADS	COLOR	RING (-) PARTY 1 OR 5	TIP (-) PARTY 2 OR 6	RING (+) PARTY 3 OR 7	TIP (+) PARTY 4 OR 8	TWO PARTY TIP IDENT GRD	
						APP 2000 ~	
EXTENDER	SH Bars		2 & 3	2 & 3	1 & 2	1 & 2	4 & 5
	Across Term.		5 & 6	5 & 6	4 & 5	4 & 5	5 & 6
	Wire to	R	6	1	1	6	1
	Prot	G Y BK	1 3 4	6 3 4	6 4 3	1 4 3	4 2 3
PROTECTOR	Wire from Ext	R G Y BK	Ring Tip Grd †	Ring Tip Grd †	Ring Tip Grd †	Ring Tip Grd †	Ring Tip Grd †
	Inside Wire to Conn Blk	R G Y BK	Ring Tip † —	Ring Tip † —	Ring Tip † —	Ring Tip † —	Ring Tip Grd
CONN BLK	Inside Wire from Prot	R G Y BK	R G Y —	R G Y —	R G Y —	R G Y —	R G Y B
	From Dial Light Trnsf	Y BK	Y B	Y B	Y B	Y B	Y ‡
	Mtg Cord at Conn Blk ¶	R G Y BK W	R G Y B Y	G R Y B Y	R G Y B Y	G R Y B Y	G R Y B ‡
AD1 BASE	Mtg Cord Jack Leads ¶	R G Y BK W	L2 L1 G 1 3	L2 L1 G 1 3	L2 L1 G 1 3	L2 L1 G 1 3	L2 L1 3 A 1
	Handset Cord Jack Leads §	R G	C F	F C	C F	F C	F C
	Line Switch Lead	S	A	A	A	A	*
	Ringer Leads	R BK S S-R	K G * *	K G * *	K G * *	K G * *	K 3 B *

* Insulate and store.

† Connect these leads together using B-Wire or 700-type connectors.

‡ Connect (W) mounting cord to dial light transformer lead using B-wire connector.

§ Handset cord jack on 2220B only.

¶ Only the AD1 base with a five conductor mounting cord can be used with the 11A Extender.

TABLE J
750A AND 750B TELEPHONE SETS (CURRENT MODELS)
11A EXTENDER, LINE, AND RINGER CONNECTIONS

WIRE OR LEADS	COLOR	RING (-) PARTY 1 OR 5	TIP (-) PARTY 2 OR 6	RING (+) PARTY 3 OR 7	TIP (+) PARTY 4 OR 8	TWO PARTY TIP IDENT GRD		
						1000Ω	2650Ω	
E X T E N D E R	SH Bars		2 & 3	2 & 3	1 & 2	1 & 2	4 & 5	4 & 5
	Across Term.		5 & 6	5 & 6	4 & 5	4 & 5	5 & 6	5 & 6
	Wire to Prot	R G Y BK	6 1 3 4	1 6 3 4	1 6 4 3	6 1 4 3	1 4 2 3	1 4 2 3
P R O T E C T O R	Wire from Ext	R G Y BK	Ring Tip Grd ‡	Ring Tip Grd ‡	Ring Tip Grd ‡	Ring Tip Grd ‡	Ring Tip Grd ‡	Ring Tip Grd ‡
	Inside Wire to 71B Conn Blk	R G Y BK	Ring Tip ‡ —	Ring Tip ‡ —	Ring Tip ‡ —	Ring Tip ‡ —	Ring Tip Grd ‡	Ring Tip Grd ‡
71B C O N N B L K	Inside Wire from Prot	R G Y BK	2 1 3 4	1 2 3 4	2 1 3 4	1 2 3 4	1 2 3 4	1 2 3 4
	Cord and Plug Assy	R G Y BK	2 1 3 4	2 1 3 4	2 1 3 4	2 1 3 4	2* 1 3 4	2 1 3 4
T E L S E T	Line Switch Leads §	S Y G	L1 R† GN†	L1 R† GN†	L1 R† GN†	L1 R† GN†	L1 R† GN†	L1 R† GN†
	Straps §	Y BK	Y† to L2 BK† to *	Y† to L2 BK† to *	Y† to L2 BK† to *	Y† to L2 BK† to *	Y† to L2 BK† to A	Y† to L2 BK† to A
	Ringer Leads §	R BK S S-R	R† L2 K A	R† L2 K A	R† L2 K A	R† L2 K A	K L2 B B	B B K L2

* Insulate and stote.

† Terminal on P-43A394 mounting block.

‡ Connect these leads together using B-Wire or 700-type connectors.

§ Terminals are on telephone set network unless otherwise noted.

TABLE K
2750-TYPE TELEPHONE SETS (CURRENT MODELS)
11A EXTENDER, LINE, AND RINGER CONNECTIONS

WIRE OR LEADS	COLOR	RING (-) PARTY 1 OR 5	TIP (-) PARTY 2 OR 6	RING (+) PARTY 3 OR 7	TIP (+) PARTY 4 OR 8	TWO PARTY TIP IDENT GRD		
						1000Ω	2650Ω	
EXTENDER	SH Bars		2 & 3	2 & 3	1 & 2	1 & 2	4 & 5	4 & 5
	Across Term.		5 & 6	5 & 6	4 & 5	4 & 5	5 & 6	5 & 6
	Wire to Prot	R	6	1	1	6	1	1
		G	1	6	6	1	4	4
Y		3	3	4	4	2	2	
BK	4	4	3	3	3	3	3	
PORTECTOR	Wire from Ext	R	Ring Tip	Ring Tip	Ring Tip	Ring Tip	Ring Tip	Ring Tip
		G	Grd	Grd	Grd	Grd	Grd	Grd
		Y	‡	‡	‡	‡	‡	‡
	BK	‡	‡	‡	‡	‡	‡	
Inside Wire to 71B Conn Blk	R	Ring Tip	Ring Tip	Ring Tip	Ring Tip	Ring Tip	Ring Tip	
	G	‡	‡	‡	‡	‡	‡	
	Y	‡	‡	‡	‡	‡	‡	
BK	—	—	—	—	—	‡	‡	
71B CONN BLK	Inside Wire from Prot	R	2	1	2	1	1	1
		G	1	2	1	2	2	2
		Y	3	3	3	3	3	3
		BK	4	4	4	4	4	4
Cord and Plug Assy		R	2	2	2	2	2	2
		G	1	1	1	1	1	1
		Y	3	3	3	3	3	3
		BK	4	4	4	4	4	4
TEL SET	Line Switch Leads §	S	L1	L1	L1	L1	*	*
		W	F	C	F	C	C	C
		BR	C	F	C	F	F	F
	Straps §	Y	Y† to *	Y† to*	Y† to*	Y† to*	Y† to L1	Y† to L1
BK		BK† to*	BK† to*	BK† to*	BK† to*	BK† to A	BK† to A	
Ringer Leads §	R	R†	R†	R†	R†	K	B	
	BK	Y†	Y†	Y†	Y†	L1	B	
	S	K	K	K	K	B	K	
	S-R	A	A	A	A	B	L1	

* Insulate and store.

† Terminals on P-43A394 mounting block.

‡ Connect these leads together using B-Wire or 700-type connectors.

§ Terminals are on telephone set network unless otherwise noted.