

STATION SETS — COMMON BATTERY

SELECTION FOR GENERAL USE

1.00 INTRODUCTION

1.01 This section covers the selection of common battery sets for general use and includes information on central office accounting identification. This section is reissued to:

- Include additional information on central office identification.
- Revise Tables A, B, and C.

1.02 Due to extensive changes marginal arrows have been omitted.

2.00 GENERAL

2.01 Information for selection of telephone sets is contained in tabular form and includes the following:

- Selection by class of service for which the set is designed.
- Selection of stations for central office accounting identification.
- Recommended transmission zone for each type set.
- Selection of sets that can be rewired or modified for other classes of service.
 - (a) Rewiring involves connection changes within the set.
 - (b) Modification involves a circuit change or addition.

2.02 Sets for 755A PBX, key equipment, outdoor sets, etc, are covered in the C Sections listing sets for station systems and for specific uses.

2.03 Ringer limitations are covered in the C Section entitled Ringing Bridge Limitations.

2.04 For selection of colored sets, see the C Section entitled Telephone Apparatus — Color.

3.00 CENTRAL OFFICE ACCOUNTING — PARTY IDENTIFICATION

3.01 All tip party stations of 2-party service requiring central office accounting identification must be wired with a resistance from the tip side of the line to ground, when the receiver is off the hook (see Table A). The following services require this identification:

- Message Rate (MR)
- Zone Registration (ZR)
- Automatic Message Accounting (AMA) Centers associated with the following:
 - (a) Centralized Automatic Message Accounting (CAMA) used with Automatic Number Identification (ANI).
 - (b) Local Automatic Message Accounting (LAMA).
 - (c) Automatic Ticketing (AT) modified for AMA.

3.02 *Message Rate* is the billing of calls within a local calling area on a *unit*-per-call basis. Additional units may be charged for overtime talking. Billing is accomplished by use of a message register for each telephone number.

3.03 *Zone Registration* is the billing of calls from a local calling area to adjacent or nearby calling areas on a *units*-per-call basis. Additional units may be charged for overtime talking. Billing is accomplished by the use of a message register for each telephone number.

3.04 Automatic Message Accounting centers are centrally located to handle the accounting and billing of direct-distance-dialed calls. Perforated tapes with all billing information are forwarded to the AMA center from central offices or tandem offices equipped for automatic recording.

3.05 Centralized Automatic Message Accounting equipment perforates on tape all information required for billing of direct distance dialed calls, except the calling party's telephone number. The CAMA operator requests the calling party's number and key punches it into the tape. *Centralized* refers to the equipment which is located to serve more than one central office. The perforated tapes are forwarded to the AMA center for accounting and billing.

3.06 Automatic Number Identification equipment can be installed in central offices associated with CAMA. This equipment automatically forwards the calling party's telephone number from the central office to the CAMA equipment which perforates the number on tape. A tip party identifying ground is not required for CAMA unless ANI equipment is added.

3.07 Local Automatic Message Accounting equipment is a combination of the features of CAMA and ANI. *Local* refers to the LAMA equipment being placed at each central office. The perforated tapes are forwarded to the AMA center for accounting and billing.

3.08 Automatic Ticketing equipment types out in ticket form all information required for direct-distance-dialed calls within a dialing area. This equipment can be modified to record the information on tape for processing through an AMA center for nationwide direct distance dialing. An identifying tip party ground is always required with AT.

4.00 INDEX OF TABLES

Table A — Identification Ground for Central Office Accounting

Table B — Selection of Dial Common Battery Sets — Combined Type

Table C — Selection of Dial Common Battery Sets—Two Piece—Hang-up and Desk Type

Table D — Selection of Manual Common Battery Sets—Combined Type

Table E — Selection of Manual Common Battery Sets — Two Piece— Hang-up and Desk Type

**TABLE A
IDENTIFICATION GROUND
FOR CENTRAL OFFICE ACCOUNTING**

Method of Billing	Tip Party of 2-Party Service Identifying Ground		
	960 to 1000 ohms	2500 to 3640 ohms	
MR	No. 1 and No. 5 XBR Panel SxS		
ZR			
AMA Center	ANI with CAMA	No. 1 and No. 5 XBR Panel SxS with MR	No. 5 XBR (modified) SxS with FR
	LAMA	No. 5 XBR	No. 5 XBR (modified)
	AT		SxS

TABLE B
SELECTION OF DIAL COMMON BATTERY SETS-

Flat Rate					Transmission Zone ◆	← Class of Service
Tip Party		Ring Party		Individual or Bridged		← Type of Service
(+) and (-)		(+) and (-)				← Party Positions
4 Party	2 Party	4 Party	2 Party	1 Party		Type of Ringing
8 Party	4 Party	8 Party	4 Party			Full Selective Semiselective Code-Div Co
	Multiparty		Multiparty		Central Office Accounting Identification	
					2	302G
					2	304C
					2	306C*
					5	500B and D
					5	500H
					5	500K
					5	500P, U
					5	501B, D*
					5	501K*
					5	501P, U*
					2	5302G-F1
					5	5302G-F4
					5	5302G-G1
					2	5304C-F1
					5	5304C-F4
					5	5304C-G1
					2	5306C-F1*
					5	5306C-F4*
					5	5306C-G1*
						Wall Type
					2	354C
					2	356C*
					5	554B
					5	556B*
						Amplifier Type
					2	332B, C
					2	334B, C
					5	532B
					5	533B*
					5	535B
					5	536B
						Prevention Party Line Interference Type
					2	302AC
					5	500F
					5	501F*

◆ Consult C Section entitled Transmission Zoning for any deviation from this table.

* Recommended equipment

† Suits may be required for this service

* Tube sets are furnished for (-) negative party position and must be rewired for (+) positive party

TABLE B
 AMON BATTERY SETS — COMBINED TYPE

Class of Service →		Flat Rate		Message Rate		
Type of Service →		Tip Party		Individual or Bridged	Ring Party	Tip Party
Party Positions →						
Type of ringing	Full Selective →	2 Party	2 Party	1 Party	2 Party	2 Party
	Semiselective	Identifying Ground				
	Code-Div Code					
Central Office Accounting Identification →		960 to 1000 ohms	2500 to 3640 ohms			960 to 1000 ohms
302G						
304C						
306C*						
500B and D						
500H						
500K						
500P, U						
501B, D*						
501K*						
501P, U*						
5302G-F1						
5302G-F4						
5302G-G1						
5304C-F1						
5304C-F4						
5304C-G1						
5306C-F1*						
5306C-F4*						
5306C-G1*						
Wall Type						
354C						
356C*						
554B						
556B*						
Amplifier Type						
332B, C						
334B, C						
532B						
533B*						
535B						
536B						
Prevention Party Line Interference Type						
302AC						
500F						
501F*						

or (+) positive party position.

TABLE C
SELECTION OF DIAL COMMON BATTERY SETS—TWO

Flat Rate					Transmission Zone ◆	← Class of Ser
Tip Party		Ring Party		Individual or Bridged		← Type of Ser
(+) and (-)		(+) and (-)				← Party Positi
4 Party	2 Party	4 Party	2 Party	1 Party		Type of Ringing { Full S Semis Code
8 Party	4 Party	8 Party	4 Party			Central Of Accountir Identificat
	Multiparty		Multiparty			
					2	201C
					2	211C
					2	212B
					2	213B†
					5*	211L (Rewire)
					5*	212L (Rewire)
					2	202C
					2	203B (Rewire)
					2	203E (Rewire)
					2	215C‡
					2	212B
					5*	212L (Rewire)
					2	203B
					2	203E (Rewire)
					2	212B (Rewire)
					5*	212L (Rewire)
					2	203B (Rewire)
					2	203E
					5*	211L
					2	212B (Rewire)
					5*	212L (Rewire)
					2	213B (Rewire)
					2	201C (Modified)
					2	211C (Modified)
					2	203B
					2	203E
					2	202C (Modified)
					2	215C (Modified)
					5*	212L
					2	212B
					2	203B (Modified)
					2	203E (Modified)
						701B ↔ E1
						E1
						701B ↔ F1
						Ri

◆ Consult C Section entitled Transmission Zoning for any deviation from this table. * Tele
 • Recommended equipment † 213-
 ‡ Subscriber sets may be rewired for this service. ‡ Not

PIECE — HANG-UP AND DESK TYPE

Service →	Flat Rate		Message Rate		
	Tip Party		Individual or Bridged	Ring Party	Tip Party
Service →					
Service →	2 Party	2 Party	1 Party	2 Party	2 Party
Service →	Identifying Ground				
Service →	960 to 1000 ohms	2500 to 3640 ohms			960 to 1000 ohms
634A			.	.	
634BA			.	.	
634AT					
634BC			.	.	
634CE			.	.	
684A			.	.	
684BA			.	.	
684BC			.	.	
634BC	.				.
684BC	.				.
634CE	.	.	.	.	.
685A			.	.	
686A			.	.	
685A	.	.			.
A or E2A					
A or E2A					
A† nger	.	.	.	.	.

phone sets equipped with G-type hand sets. Use 685A or 686A subscriber set network.
 type set used as extension hand telephone set connected to a common subscriber set.
 for use on 4 party.

TABLE D
SELECTION OF MANUAL COMMON BATTERY SETS—COM

Flat Rate					Transmission Zone ◆	← Class of Ser ← Type of Ser ← Party Positi Type of Ringing Full S Semis Code-l
Tip Party		Ring Party		Individual or Bridged		
(+) and (-)		(+) and (-)				
4 Party 8 Party	2 Party 4 Party Multiparty	4 Party 8 Party	2 Party 4 Party Multiparty	1 Party		
	•		•	•	2	302E
	•		○	○	2	304A
•		•			2	306A*
	•		•	•	5	500A a
	•		•	•	5	500J
•		•			5	501A a
•		•			5	501J*
						Wall Typ
	•		•	•	2	354A
•		•			2	356A*
	•		•	•	5	554A
•		•			5	556A*
						Amplifier T
	•		•	•	2	332A
	•		•	•	5	532A
•		•			5	533A*
	•		•	•	5	535A
	•		•	•	5	536A
						Prevention Par Interference
	•		•		2	302AA
	•		•		5	500E

◆ Consult C Section entitled Transmission Zoning for any deviation from this table.

• Recommended equipment.

○ Sets may be rewired for this service.

* Tube sets are furnished for (-) negative party position and must be rewired for (+) positive

BINED TYPE

vice →	Message Rate		
	Individual or Bridged	Ring Party	Tip Party
ons →			
elective →	1 Party	2 Party	2 Party
elective			
Div Code			
	.	.	.
	o	o	.
nd C	.	.	.
	.	.	.
nd C*			
e	.	.	.
	.	.	.
ype	.	.	.
	.	.	.
	.	.	.
	.	.	.
	.	.	.
ty Line Type			

party position.

TABLE E
SELECTION OF MANUAL COMMON BATTERY SETS — TWO PIECE — HAN

Flat Rate					Transmission Zone ◆	← Class of Ser
Tip Party		Ring Party		Individual or Bridged		← Type of Ser
(+) and (-)		(+) and (-)				← Party Positi
4 Party	2 Party	4 Party	2 Party	1 Party		Type of Ringing
8 Party	4 Party	8 Party	4 Party		Full S Semis Code-	
	Multiparty		Multiparty			
	•		•	•	2	201A
	•		•	•	2	211A
•		•			2	213A†
	○		○	○	5	211J (Rewire)
	○		○	○	2	202A
	•		•	•	2	215A†
	•		•	•		
	○		○	○		
					5	211J*
					2	201A (Modified)
	•		•	•	2	211A (Modified)
•		•			2	213E (Modified)
					2	202A (Modified)
					2	215A (Modified)

◆ Consult C Section entitled Transmission Zoning for any deviation from this table.

* Extension hand equipment.

† Subscriber sets may be rewired for this service.

* Telephone sets equipped with G1A3 hand sets. Use 685A or 686A subscriber set network.

† 215A set used as extension hand telephone set connected to a common subscriber set.

IG-UP AND DESK TYPE

vice →	Message Rate		
	Individual or Bridged	Ring Party	Tip Party
ons →			
elective →	1 Party	2 Party	2 Party
elective			
Div Code			
634A	•	•	•
634BA	•	•	•
634AT			
→ 634BC			
634CE		•	
684A	•	•	•
684BA	•	•	•
684BC	•	•	•
→ 685A	•	•	•
→ 686A			