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## Equipment Design and General Requirements Engineering Information 1, 1A, 2, 2A, 3, and 4 **ESS**<sup>™</sup> and **5ESS**<sup>®</sup> 1A Processor

### 1. Purpose

- 1.01** This index provides a listing of documents in Division 820.

### 2. How to Use This Index

- 2.01** For additional index information, refer to *AT&T Master Index — 9-digit Numbered Documents* AT&T 000-000-002. The Master Index contains all divisional indexes.

### 3. Conventions Used

- 3.01** A bullet (●) indicates an item that has been added or changed since the previous issue of the index.
- 3.02** An open square (□) indicates a cancelled item. Information relating to the cancellation, if necessary, will be shown in a note following the item. Cancelled items and related notes will be deleted upon reissue of the index.
- 3.03** A square with an enclosed "A" (◻) indicates an archived item. An archived document is one that, in all probability, will never be revised and/or has had no distribution activity for an extended period of time. Archived documents can be ordered.

- 3.04** A solid square (■) indicates that distribution of this item is limited.

- 3.05** A solid circle with an enclosed "1" (Ⓛ) indicates an item that will not be distributed on standing order.

- 3.06** A solid triangle (▲) indicates a TOP (Task Oriented Practice.)

- 3.07** An electronic media symbol (Ⓜ) indicates an item is available on CD-ROM, magnetic tape, or other electronic media.

- 3.08** Addendums and supplements are listed *above* the associated document. Appendixes are listed *under* the associated document.

### 4. How to Order Documentation

- 4.01** To order this document:
- Within the continental United States, call 1-800-432-6600.
  - In Canada, call 1-800-256-1242.

### 5. How to Comment on This Index

- 5.01** AT&T values your opinion. We would like to know how well the index meets your needs.

Please send comments on this index to:

AT&T Number Assignment Administrator  
 2400 Reynolda Rd., Department 4151  
 Winston-Salem, NC 27106-4696

## 6. Contents of Division

**6.01** This division is arranged in layers as follows:

**820-0** Index; 1 ESS™ — General, Trunks and Frames

**820-1** 1 ESS Switching Networks

**820-2** 1 ESS System Control

**820-3** 1 ESS Equipments Arranged with 4-Wire Features

**820-4** 1 ESS Equipments Arranged with Data Features

**820-5** 1 ESS Test, Maintenance, and Accounting

**820-6** 2, 2A, and 3 ESS

**820-7** 1A ESS, 4 ESS, 1A Processor, and Remote Switching Systems

**820-8** 5ESS Switch

## 7. Index

Number	Issue	Subject
<b>820-0</b> Index; 1 ESS — General, Trunks and Frames		
<b>Indexes</b>		
● 820-000-000	92	Numerical Index — Division 820 — Equipment Design and General™ Equipment Requirements and Engineering Information — 1, 1A, 2, 2A, 3, and 4ESS™ and 5ESS®, and 1A Processor
<b>General</b>		
Addendum	3	
820-001-150	3	(J1A055) - Central Office Equipment — General Outline
820-001-170	1	Central Office Engineering — General — Engineering Information — No. 1 Electronic Switching System

Number	Issue	Subject
820-001-180	6	Performance Requirements — Arranged With 2-Wire Features
820-005-150	8	(J1A063) - Trunk Order Codes — No. 1 ESS — Arranged With 2-Wire Features
820-007-150	1	(J1A057) - Index of Equipment Cross-Connections
820-008-150	2	(J1A065) - B-Link Distribution — Arranged With 2-Wire Features
820-009-150	3	(J1A056) - Limiting Conductor Conditions
820-010-170	2	Signaling Range Limits — 1 ESS
<b>Trunks and Frames</b>		
820-028-150	3	(J1A035) - Power Distributing Frame
820-030-150	3	(J1A058) - Recorded Announcement Frame — No. 1, No. 1A, and No. 2 Electronic Switching Systems — Control and Distribution Frame for Use With the Common Systems Recorded Announcement Frame (CSRAF) — No. 1 and No. 1A Electronic Switching Systems (also numbered 820-640-151)
820-031-150	5	(J1A033) - Miscellaneous Trunk Frames and Units
820-031-151	6	(J1A048) - Miscellaneous Frames and Units — Arranged With 2-Wire and 4-Wire Features
820-031-153	2	(J1A088) - Combined Miscellaneous Trunk Frames and Units — Common Systems
820-031-154	1	(J1A089) - 60A CPS Attendant Interface Frame — No. 1 Arranged With 2-Wire Features
820-032-150	1	(J1A083) - Dynamic Overload Control Transmitter Frame — Arranged With 2-Wire Features
820-050-150	1	(J1A052) - End Guards, Aisle Directories — Cable Rack Support Stanchion and Miscellaneous Alarm Units
820-053-150	1	(J1A053) - Filter Units
820-069-151	1	(J1A094) - Data Terminal Group
Addendum	1	
820-070-150	2	(J1A068) - Centrex Data Link Frame and Centrex Console Cabinet Equipment — Arranged With 2-Wire Features

Number	Issue	Subject	Number	Issue	Subject
<b>820-1 1 ESS Switching Networks</b>			820-230-150	3	(J1A034) - Central Pulse Distributor Frame — Arranged With 2-Wire, 4-Wire, And Data Features
820-101-150	2	(J1A028) - Line Switching Frame	Addendum	1	
820-104-150	1	(J1A030) - Trunk Switching Frame	820-232-150	3	(J1A043) - Master Scanner Frame — Arranged With 2-Wire, 4-Wire, and Data Features (Also numbered 820-630-155 and 821-410-154)
820-104-152	1	(J1A078) - Remreed Trunk Switching Frame — No. 1 and No. 1A			
820-105-150	1	(J1A070) - Service Link Frames — Arranged With 2-Wire Features			
820-106-150	1	(J1A029) - Junctor Switching Frame	<b>820-3 1 ESS Equipments Arranged with 4-Wire Features</b>		
820-108-150	3	(J1A031) - Junctor Frame	Addendum	1	
820-110-150	1	(J1A047) - Junctor Grouping Frame	820-301-150	3	(J2A002) - Trunk Switching Frame
820-110-151	1	(J1A085) - 12-File Junctor Grouping Frame	Addendum	1	
820-120-150	5	(J1A032) - Universal Trunk Frame	820-303-150	3	(J2A001) - Junctor Switching Frame
820-120-151	1	(J1A084) - Miniaturized Universal Trunk Frame — No. 1 ESS — Equipment Design Requirements — Electronic Switching System	820-304-150	1	(J2A005) - Junctor Grouping Frame
820-121-150	1	(J1A090) - HILO Universal Trunk Frame	Addendum	2	
820-121-151	1	(J1A091) - HILO Miscellaneous Trunk Frame — No. 1 and No. 1A ESS	820-307-150	2	(J2A004) - Universal Trunk Frame
<b>820-2 1 ESS System Control</b>			820-308-150	4	(J2A003) - Miscellaneous Trunk Frame
820-200-150	1	(J1A037) - Central Control	820-315-150	3	(J2A006) - Filter Units
820-202-150	3	(J1A038) - Call Store — For Use With Central Control and Signal Processor and Buffer Control	820-316-150	1	(J2A016) - Office Status Display Frame
820-202-151	4	(J1A072) - 32K Call Store for Use With Central Control and Signal Processor and Buffer Control	820-316-151	1	(J2A017) - Office Status Display Remote Units — No. 1 ESS Arranged With 4-Wire Features
820-204-150	2	(J1A039) - Program Store	● 820-320-150	1	(J2A007) Simplex Converter Frame Arranged With 4-Wire Features
820-204-151	2	(J1A064) - Program Store Memory — Arranged With 2-Wire Features	● 820-321-150	2	(J2A011) Preempt Tone and Repeated Alerting Line Applique Frame — Arranged With 4-Wire Features
Addendum	1		● 820-322-150	1	(J2A009) Multiaddress Frame — Offices Arranged With 4-Wire Features
820-204-152	2	(J2A013) - Program Store Memory — Arranged With 4-Wire Features	● 820-323-150	2	(J2A010) Line Applique Frame — Offices Arranged With 4-Wire Features
820-206-150	1	(J1A049) - Signal Processor	820-324-150	2	(J2A008) - Control, Display, and Test Frame — Master Control Center

Number	Issue	Subject	Number	Issue	Subject
<b>820-4 1 ESS Equipments Arranged with Data Features</b>			<b>820-6 2, 2A, and 3 ESS</b>		
820-401-150	1	(J3A001) - Magnetic Character Assembler Disassembler	<b>General</b>		
820-402-150	2	(J3A002) - Delay Line Character Assembler/ Disassembler (DCAD)	820-600-151	3	(J2H032) - Limiting Conductor Conditions — No. 2 and No. 2B — Arranged With 2-Wire Features
820-403-150	1	(J3A004) - Logic Character Assembler Disassembler	820-600-152	4	(J2H031) - Trunk Equipment Tables — Arranged by Functions and Features — Arranged With 2-Wire Features
820-404-150	2	(J3A006) - Tape Unit Control Frame	820-600-153	3	(J2H033) - Index of Equipment Cross- Connections — No. 2 and No. 2B ESS Arranged With 2-Wire Features
820-404-151	1	(J3A005) - Tape Unit Frame	Addendum	1	
820-405-150	2	(J3A007) - Primary Message Store	820-600-154	1	(J2H035) - 2-Wire No. 2 or 2B ESS Arranged in Modular Buildings — No. 2A or 2C ESS
820-406-150	1	(J3A008) - Buffer Control	820-600-155	2	(J2H104AA-1) — Serial Peripheral Unit Controller/Data Link (SPUC/DL) — 2B Electronic Switching System
820-407-150	1	(J3A016) - Program Store Memory — Arranged With Data Features	820-600-180	4	Performance Requirements — Arranged With 2-Wire Features
820-410-150	1	(J3A013) - Voiceband Digital Data Set Frame	820-600-186	4	Performance Requirements — No. 2B ESS
<b>820-5 1 ESS Test, Maintenance, and Accounting</b>			<b>Trunks and Frames</b>		
Addendum	1		820-610-150	1	(J2H017) - Universal Trunk and Junctor Frame — Arranged With 2-Wire Features
820-501-150	3	(J1A041) - Automatic Message Accounting and Teletypewriter Frame and Universal Teletypewriter Equipment — Master Control Console	820-610-151	3	(J2H018) - Miscellaneous Trunk Frame — Arranged With 2-Wire Features
820-501-151	1	(J1A071) - Test Tape for 9-Track AMA — Arranged With 2-Wire Features	820-610-153	2	(J2H034) - Range Extension Frame — Arranged With 2-Wire Features
820-502-150	6	(J1A042) - Control Display, and Test Frame — Master Control Center and Supplementary Trunk Test Frame — Arranged With 2-Wire and Data Features	<b>Switching Networks</b>		
820-502-151	1	(J1A076) - Remote Office Test Line — No. 1 or No. 1A ESS — Arranged With 2-Wire Features	820-620-150	2	(J2H022) - Junctor Grouping Frame — Arranged for 2-Wire Features
820-503-150	1	(J1A040) - Memory Card Writer Frame — Master Control Center	820-620-151	1	(J2H025) - Line/Trunk Switching Frame — Arranged With 2-Wire Features
□ 820-504-150	5	(J24753) - Test Set for Timing Tests NOTE: Replaced by 817-723-150	820-620-152	1	(J2H026) - Network Control Junctor Switching Frame
820-505-150	1	(J1A069) - Plug-in Trunk Unit Test Stand — Arranged With 2-Wire Features	820-620-154	1	(J2H124) - Remreed Network — No. 2 and No. 2B — Electronic Switching Systems
820-505-151	2	(J1A082) - Outgoing Test Trunk Set for Board-to-Board Testing Arranged With 2-Wire Features			

Number	Issue	Subject	Number	Issue	Subject
820-620-155	1	(J2H048) - Loop Range Extension — Common ESS Arranged With 2-Wire Features	<b>Test, Maintenance and Accounting</b>		
<b>System Control</b>			Addendum	1	
820-630-150	2	(J2H002) - Central Processor Frame — No. 2 ESS Arranged With 2-Wire Features or — Automatic Intercept Center No. 1A in AIS Electronic Switching and Traffic Service System (Also numbered 821-410-150)	820-640-150	3	(J2H003) - Maintenance Center Frame — No. 2 ESS Arranged With 2-Wire Features or Automatic Intercept Center No. 1A in AIS — Electronic Switching and Traffic Service Systems (Also numbered 821-410-151)
820-630-151	2	(J2H005) - Call Store — No. 2 ESS Arranged With 2-Wire Features or Automatic Intercept Center No. 1A in AIS — Electronic Switching and Traffic Service Systems (Also numbered 821-410-152)	□ 820-640-151	3	(J1A058) - Recorded Announcement Frame — No. 1, No. 1A, and No. 2 Electronic Switching Systems — Control and Distribution Frame for Use With the Common Systems Recorded Announcement Frame (CSRAF) — No. 1 and No. 1A Electronic Switching Systems (also numbered 820-030-150) NOTE: Replaced by 820-030-150
820-630-152	2	(J2H023) - Supplementary Central Pulse Distributor Frame — Arranged With 2-Wire Features	820-640-152	2	(J2H039) - Remote Office Test Line Frame — No. 2 ESS — Arranged With 2-Wire Features
820-630-153	4	(J2H030) - Program Store Memory — Arranged With 2-Wire Features	820-640-153	2	(J2H024) - Trunk Test Frame — No. 2 ESS Arranged With 2-Wire Features Equipment Design Requirements — Electronic Switching Systems
820-630-154	2	(J2H027) - Program Store Frame — No. 2 ESS Arranged With 2-Wire Features or Automatic Intercept Center 1A in AIS — Electronic Switching and Traffic Service Systems (Also numbered 821-410-155)	820-640-154	1	(J2H021) - Automatic Message Accounting Frame
□ 820-630-155	3	(J1A043) - Master Scanner Frame — No. 1 ESS Arranged With 2-Wire, 4-Wire, and Data Features or No. 2 ESS Arranged With 2-Wire Features or Automatic Intercept Center No. 1A in AIS — Electronic Switching and Traffic Service Systems (Also numbered 820-232-150 and 821-410-154) NOTE: Replaced by 820-232-150	820-650-180	2	Performance Requirements — No. 3 ESS
820-630-158	1	(J2H101) - Tape Cartridge (KS-21439 Data Cartridge) No. 2B ESS Arranged With 2-Wire Features	820-651-150	1	(J3H001) - No. 3 ESS Equipment Design Requirement — Electronic Switching System
			<b>820-7 1A ESS, 4 ESS, No. 1A Processor, and Remote Switching Systems</b>		
			<b>No. 1A Processor</b>		
			820-701-150	3	(J5A001) - Processor Peripheral Interface Frame, Control and Display Frame, and Master Control Console — Arranged for 1A ESS Switch 2-Wire and 4ESS Switch
			820-701-151	2	(J5A005) - Central Control Frame — 1A Processor — Arranged for 1A ESS* Switch 2-Wire and 4ESS Switch

Number	Issue	Subject	Number	Issue	Subject
820-701-152	3	(J5A006) - Input/Output Frame and Input/Output Processor Frame — 1A Processor Arranged for 1A ESS Switch 2-Wire and 4 ESS Switch	820-741-157	1	(J4A008) — Signal Processor 2
820-701-153	1	(J5A002) - Tape Frame — Arranged for No. 1A ESS With 2-Wire Features and No. 4 ESS	820-741-158	2	(J4A009) - Common Channel Interoffice Signaling Terminal Group
820-701-154	1	(J5A003) - Call Store and Program Store — Arranged for No. 1A ESS Arranged With 2-Wire Features and No. 4 ESS	820-741-159	2	(J4A010) - Miscellaneous Frames A and B
820-701-155	1	(J5A004) - File Store Frame — 1A Processor	820-741-160	2	(J4A011) - Network Management Display — No. 4 ESS
820-701-156	2	(J5A007) - Power Conversion and Distribution Frame for Use With 1A ESS* 2-Wire and 4ESS 1A Processor	820-741-161	1	(J4A012) - Office Alarm Grid Equipment
820-701-161	1	(J5A012) - Attached Processor Interface Frame — Equipment Design Requirements — Electronic Switching Systems	820-741-164	1	(J4A015) - Digital Services Complex - No. 4 ESS
			820-741-165	1	(J4A016) - Multifrequency Compelled Transceiver Frame
			820-741-166	1	(J4A017) - Network Services Complex
			<b>Remote Switching System</b>		
			820-760-001	1	Remote Switching System Frame — No. 10A
			820-760-002	3	No. 10A — Remote Switching System — Performance Requirements
<b>1A ESS</b>			<b>820-8 5ESS Switch</b>		
Addendum	3		820-800-000	1	General Information Specification
820-720-180	1	Performance Requirements — Arranged With 2-Wire Features	820-800-004	1	Line Unit
820-721-150	1	(J6A001) - Trunk and Line Test or Supplementary Trunk Test Frame — Arranged With 2-Wire Feature	820-800-005	1	Miscellaneous (7-Foot) Cabinet
			820-800-009	1	Line Interface Frame (J5D012) - Network Management Frame
<b>4 ESS</b>					
820-740-150	1	(J4A000) - No. 4 ESS — Summarizing Specification			
820-740-151	1	Spare Parts Requirements			
820-740-152	1	Trunk Compatibility — No. 4 ESS			
820-740-180	1	Performance Requirements — No. 4 ESS			
820-741-150	1	(J4A001) - Time-Slot Interchange Frame			
820-741-151	1	(J4A002) - Time Multiplexed Switching Frame			
820-741-152	1	(J4A003) - Signal Processor 1			
820-741-153	2	(J4A004) - Network Clock Frame			
820-741-154	1	(J4A005) - Peripheral Unit Bus Branching Frame			
820-741-156	3	(J4A007) - Remote Office Test Line Frame			