

**NUMERICAL INDEX — DIVISION 820
EQUIPMENT DESIGN AND GENERAL EQUIPMENT REQUIREMENTS
AND ENGINEERING INFORMATION
NO. 1, NO. 1A, NO. 2, NO. 2A, NO. 3, AND NO. 4 ESS, AND 1A PROCESSOR**

1. GENERAL

- 1.01** This section provides an index of System-issued sections in Division 820.
- 1.02** A bullet (●) indicates an item that has been added or changed since the previous issue of the index.
- 1.03** A square (□) indicates a canceled item. Information relating to the cancellation, if necessary, will be shown in a note following the item. Canceled items and related notes will be deleted upon reissue of the index.
- 1.04** A number sign (#) indicates the release of an item issued or reissued to change its rating to "Manufacture Discontinued" (Mfr Disc.). No stock of these sections will be retained by WE and the listing of these items will be deleted upon reissue of the index.
- 1.05** A heart (♥) indicates an item which, because of its limited needs, has not been distributed on standing orders. Locations requiring these orders should place regular one-time orders for them.
- 1.06** "Add" is the abbreviation for Addendum.

2. LAYERS

- 2.01** This division is arranged in layers as follows:
820-0 Index; No. 1 ESS — General, Trunks and Frames
 - 1 No. 1 ESS Switching Networks
 - 2 No. 1 ESS System Control
 - 3 No. 1 ESS Equipments Arranged With 4-Wire Features
 - 4 No. 1 ESS Equipments Arranged With Data Features
 - 5 No. 1 ESS Test, Maintenance, and Accounting
 - 6 No. 2, 2A, and No. 3 ESS
 - 7 No. 1A ESS, No. 4 ESS, and No. 1A Processor

3. INDEX

Section Number	Issue	Subject
820-0 INDEX; NO. 1 ESS — GENERAL, TRUNKS AND FRAMES		

Indexes

● 820-000-000	57	Numerical Index — Division 820 — Equipment Design and General Equipment Requirements and Engineering Information — No. 1, No. 1A, No. 2, No. 2A, No. 3, and No. 4 ESS, and 1A Processor
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General

Add 820-001-150	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

Section Number	Issue	Subject
820-001-180	4	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	1	Signaling Range Limits — No. 1 ESS

Trunks and Frames

820-028-150	2	(J1A035) - Power Distributing Frame
820-030-150	2	(J1A058) - Recorded Announcement Frame — Arranged With 2-Wire and 4-Wire Features or No. 2 Electronic Switching System Arranged With 2-Wire Features
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	1	(J1A088) — Combined Miscellaneous Trunk Frames and Units
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	Data Terminal Group
Add 820-070-150	1	
820-070-150	2	(J1A068) - Centrex Data Link Frame and Centrex Console Cabinet Equipment — Arranged With 2-Wire Features

820-1 NO. 1 ESS SWITCHING NETWORKS

820-101-150	2	(J1A028) - Line Switching Frame
820-104-150	1	(J1A030) - Trunk Switching Frame
820-104-152	1	(J1A078) - Remreed Trunk Switching Frame — No. 1 and No. 1A

NOTICE

Not for use or disclosure outside the Bell System except under written agreement

SECTION 820-000-000

Section Number	Issue	Subject
820-105-150	1	(J1A070) - Service Link Frames — Arranged With 2-Wire Features
820-106-150	1	(J1A029) - Junctor Switching Frame
820-108-150	3	(J1A031) - Junctor Frame
820-110-150	1	(J1A047) - Junctor Grouping Frame
820-120-150	5	(J1A032) - Universal Trunk Frame
820-110-151	1	(J1A085) - 12-File Junctor Grouping Frame
● 820-121-150	1	(J1A090) - Hilo Universal Trunk Frame

820-2 NO. 1 ESS SYSTEM CONTROL

820-200-150	1	(J1A037) - Central Control
820-202-150	3	(J1A038) - Call Store — For Use With Central Control and Signal Processor and Buffer Control
820-202-151	2	(J1A072) - 32K Call Store for Use With Central Control and Signal Processor and Buffer Control
820-204-150	2	(J1A039) - Program Store
820-204-151	2	(J1A064) - Program Store Memory — Arranged With 2-Wire Features
Add 820-204-152	1	
820-204-152	2	(J2A013) - Program Store Memory — Arranged With 4-Wire Features
820-206-150	1	(J1A049) - Signal Processor
820-230-150	3	(J1A034) - Central Pulse Distributor Frame — Arranged With 2-Wire, 4-Wire, And Data Features
Add 820-232-150	1	
820-232-150	3	(J1A043) - Master Scanner Frame — Arranged With 2-Wire, 4-Wire, and Data Features

820-3 NO. 1 ESS EQUIPMENTS ARRANGED WITH 4-WIRE FEATURES

Add 820-301-150	1	
820-301-150	3	(J2A002) - Trunk Switching Frame
Add 820-303-150	1	
820-303-150	3	(J2A001) - Junctor Switching Frame
820-304-150	1	(J2A005) - Junctor Grouping Frame
Add 820-307-150	2	
820-307-150	2	(J2A004) - Universal Trunk Frame
820-308-150	4	(J2A003) - Miscellaneous Trunk Frame
820-315-150	3	(J2A006) - Filter Units
820-316-150	1	(J2A016) - Office Status Display Frame
● 820-316-151	1	(J2A017) - Office Status Display Remote Units — No. 1 ESS Arranged With 4-Wire Features
♥ 820-320-150	1	(J2A007) Simplex Converter Frame Arranged With 4-Wire Features

Section Number	Issue	Subject
♥ 820-321-150	2	(J2A011) Preempt Tone and Repeated Alerting Line Applique Frame — Arranged With 4-Wire Features
♥ 820-322-150	1	(J2A009) Multiaddress Frame — Offices Arranged With 4-Wire Features
♥ 820-323-150	2	(J2A010) Line Applique Frame — Offices Arranged With 4-Wire Features
820-324-150	2	(J2A008) - Control, Display, and Test Frame — Master Control Center

820-4 NO. 1 ESS EQUIPMENTS ARRANGED WITH DATA FEATURES

820-401-150	1	(J3A001) - Magnetic Character Assembler Disassembler
820-402-150	2	(J3A002) - Delay Line Character Assembler/Disassembler (DCAD)
820-403-150	1	(J3A004) - Logic Character Assembler Disassembler
820-404-150	2	(J3A006) - Tape Unit Control Frame
820-404-151	1	(J3A005) - Tape Unit Frame
820-405-150	2	(J3A007) - Primary Message Store
820-406-150	1	(J3A008) - Buffer Control
820-407-150	1	(J3A016) - Program Store Memory — Arranged With Data Features
820-410-150	1	(J3A013) - Voiceband Digital Data Set Frame

820-5 NO. 1 ESS TEST, MAINTENANCE, AND ACCOUNTING

Add 820-501-150	1	
820-501-150	3	(J1A041) - Automatic Message Accounting and Teletypewriter Frame and Universal Teletypewriter Equipment — Master Control Console
820-501-151	1	(J1A071) - Test Tape for 9-Track AMA — 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
820-502-151	1	(J1A076) - Remote Office Test Line — No. 1 or No. 1A ESS — Arranged With 2-Wire Features
820-503-150	1	(J1A040) - Memory Card Writer Frame — Master Control Center
820-504-150	5	(J24753) - Test Set for Timing Tests
820-505-150	1	(J1A069) - Plug-in Trunk Unit Test Stand — Arranged With 2-Wire Features
820-505-151	2	(J1A082) — Outgoing Test Trunk Set for Board-to-Board Testing Arranged With 2-Wire Features

Section Number	Issue	Subject	Section Number	Issue	Subject
820-6	NO. 2, 2A, AND NO. 3 ESS		820-630-154	1	(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
General			Add 820-630-155	1	
820-600-151	3	(J2H032) - Limiting Conductor Conditions — No. 2 and No. 2B — Arranged With 2-Wire Features	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
820-600-152	3	(J2H031) - Trunk Equipment Tables — Arranged by Functions and Features — Arranged With 2-Wire Features			
820-600-153	3	(J2H033) - Index of Equipment Cross-Connections — No. 2 and No. 2B ESS Arranged With 2-Wire Features	820-630-158	1	(J2H101) - Tape Cartridge (KS-21439 Data Cartridge) No. 2B ESS Arranged With 2-Wire Features
			Test, Maintenance and Accounting		
820-600-180	4	Performance Requirements — Arranged With 2-Wire Features	Add 820-640-150	1	
820-600-186	2	Performance Requirements — No. 2B ESS	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
Trunks and Frames			820-640-151	2	(J1A058) - Recorded Announcement Frame — No. 1 Electronic Switching System — Arranged With 2-Wire and 4-Wire Features or No. 2 Electronic Switching System — Arranged With 2-Wire Features
820-610-150	1	(J2H017) - Universal Trunk and Junctor Frame — 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
820-610-151	2	(J2H018) - Miscellaneous Trunk Frame — Arranged With 2-Wire Features	820-640-154	1	(J2H021) - Automatic Message Accounting Frame
820-610-153	2	(J2H034) - Range Extension Frame — Arranged With 2-Wire Features	820-7 NO. 1A ESS, NO. 4 ESS, AND NO. 1A PROCESSOR		
Switching Networks			No. 1A Processor		
820-620-150	2	(J2H022) - Junctor Grouping Frame — Arranged for 2-Wire Features	820-701-150	1	(J5A001) - Processor Peripheral Interface Frame, Control and Display Frame, and Master Control Console — Arranged for No. 1A ESS 2-Wire and No. 4 ESS
820-620-151	1	(J2H025) - Line/Trunk Switching Frame — Arranged With 2-Wire Features	820-701-151	1	(J5A005) - Central Control — Arranged for No. 1A ESS 2-Wire and No. 4 ESS
820-620-152	1	(J2H026) - Network Control Junctor Switching Frame	820-701-153	1	(J5A002) - Tape Frame — Arranged for No. 1A ESS With 2-Wire Features and No. 4 ESS
820-620-154	1	(J2H124) - Remreed Network — No. 2 and No. 2B — Electronic Switching Systems	820-701-154	1	(J5A003) - Call Store and Program Store — Arranged for No. 1A ESS Arranged With 2-Wire Features and No. 4 ESS
System Control			820-701-156	1	(J5A007) - Power Conversion and Distribution Frame for Use With No. 1A ESS 2-Wire and No. 4 ESS
Add 820-630-150	1		No. 1A ESS		
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 Systems	820-721-150	1	(J6A001) - Trunk and Line Test or Supplementary Trunk Test Frame — Arranged With 2-Wire Feature
820-630-151	1	(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			
820-630-152	2	(J2H023) - Supplementary Central Pulse Distributor Frame — Arranged With 2-Wire Features			
820-630-153	4	(J2H030) - Program Store Memory — Arranged With 2-Wire Features			

SECTION 820-000-000

Section Number	Issue	Subject
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

Section Number	Issue	Subject
820-741-156	2	(J4A007) - Remote Office Test Line Frame
820-741-157	1	(J4A008) - Signal Processor 2
820-741-158	2	(J4A009) - Common Channel Interoffice Signaling Terminal Group
820-741-159	2	(J4A010) - Miscellaneous Frames A and B
820-741-160	1	(J4A011) - Network Management Display
820-741-161	1	(J4A012) - Office Alarm Grid Equipment