



4ESS™ Switch

1. Purpose

- 1.01** This index provides a listing of documents in Division 234.
- 1.02** This index reverted to Issue 1 in May 1986. Prior to that date there had been 99 issues of the index.

2. How to Use This Index

- 2.01** For additional index information, refer to 000-000-002, *Lucent Technologies Master Index — 9-digit Numbered Documents*. 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 An archived document is one that, in all probability, will never be revised and/or has had no distribution activity for an extended period of time.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, revisions, 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:
 - Lucent and commercial customers, call 1-888-LUCENT-8 (582-3688).

5. How to Comment on This Index

- 5.01** We value your opinion. We would like to know how well the index meets your needs. Please send comments on this index to:

Number Assignment Administrator
2855 N. Franklin Rd.
Indianapolis, IN 46219-1344

Division 234

4ESS™ Switch

234-0 Indexes, Equipment Test List, and General System Information

- 000 Indexes and Equipment Test List
- 010 General
- 015 Electronic Media
- 020 System Operational Procedures
- 040 Measurements
- 090 Feature Documents
- 097 All CIRs (Customer Information Releases) Except AT&T-C
- 099 General Distribution CIRs

234-1 System Description, Operation, Maintenance, Retrofit, and Growth

- 100 General System Information
- 101 Network Administration
- 103/106 Network Maintenance
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- 110/120 Peripheral Equipment
- 121 Remote Measurement System (RMS)
- 150 Terminal Equipment Maintenance
- 151 Peripheral Equipment Maintenance
- 152 Machine Administration Center (MAC)
- 153 Growth
- 155 System Evaluation and Acceptance Tests
- 160 Generic Retrofit/Update
- 180 Software Description
- 182 System Evaluation and Acceptance Requirements
- 183 Precutover Trunk Testing
- 185 Generic Retrofit and ODA Update — Planning and Scheduling Guide

234-2 Attached Processor System (APS)

234-3 1B Processor

- 301 General Information
- 310 Administration Information
- 351 Maintenance
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234-0 Indexes, Equipment Test List, and General System Information		
234-000/001 Indexes and Equipment Test List		
● 234-000-000	73	Numerical Index — Division 234 — 4ESS™ Switch (8-00)
●■ 234-000-005	34	Interdivisional Numerical Index (10-93)
●■ 234-000-010	10	Generic Retrofit Index
■ 234-000-015	3	Recommended Documentation for New 4ESS Switch Offices (Composite List)
■ 234-001-011	7	Equipment Test List
■ 234-001-011AC	2	Equipment Test List (NSD)
234-010 General		
●■ 234-010-100	06/2000	4 ESS Switch Translations Guide TG4 (7 Vols.)
■ 234-010-100AC	3/00	Proprietary Translations Guide 4 ESS Switch PTG4
■ 234-010-108	2	4ESS-2000 Switch Maintenance Procedures
■ 234-010-120	2	Digital Synchronization — Reference Guide (5-92)
■ 234-010-131	9.2	4ESS/APS Input Reference Manual
■ 234-010-132	1.6	4ESS Switch Input Reference Manual (for 4ESS Switch with 1B Processor) (11-94)
■ 234-010-205	1	Program Address Interpretation Guide — Description
■ 234-010-210	8	Audit System Application Description (5-97)
■ 234-010-215	5	Trouble Locating Procedure (TLP) Process Description (2-97)
■ 234-010-315	19	Domestic Call-Irregularity — Maintenance Reference Handbook

Number	Issue	Subject	Number	Issue	Subject
■ 234-010-316	12	International Switching Center — Call-Irregularity Maintenance — Reference Handbook 4E22 (1-97)	■ 234-090-003AC	1	Direct Service Dialing Enhancements
234-015 Electronic Media			■ 234-090-004AC	1	International Services and Capabilities
●■ 234-015-110	07/2000	4ESS Switch Customer Documentation CD-ROM Offerings	■ 234-090-005	1	Network Interconnect Phase 2 — Common Channel Signaling Number 7 — Integrated Services Digital Network — User Part
●■ 234-015-120	07/2000	Subscription for Web Services Access To 4ESS Switch Documentation	■ 234-090-005AC	1	Network Interconnect Phase 2 — Common Channel Signaling Number 7 — Integrated Services Digital Network — User Part
234-020 System Operational Procedures			■ 234-090-006AC	1	Positive Call Processing/Subaccount Billing
■ 234-020-001	1	Operational Review — Network Administration	■ 234-090-007	1	Architecture and Capacity Enhancements
■ 234-020-006AC	2	International Network Switching Performance Measurement Plan — Description — Network Switched Services	■ 234-090-008AC	1	Network Routing Feature (NRF)
■ 234-020-007	4	Domestic Network Switching Performance Measurement Plant (NSPMP) — Reference Guide (9-92)	■ 234-090-009	1	Integrated Services Digital Network (ISDN) Phase 4
■ Addendum	1		■ 234-090-010	1	Billing Improvements
■ 234-020-010	2	Controlled Maintenance Plan	■ 234-090-011	1	Local Exchange Carrier (LEC) Feature Document
■ 234-020-030	2	Recent Change System — Roll-back, Rollforward, and Reinitialization Network Operations — Common Methods	■ 234-090-012	1	Common Channel Signaling Number 7 (CCS7) Enhancements
234-040 Measurements			■ 234-090-013	1	Signaling System 7 (SS7) User's Guide (10-98)
■ 234-040-030AC	1	International Machine Service Report-2 — Description — Network Switched Services	■ 234-090-019	2	Advanced Intelligent Network (AIN) — User's Guide (4-97)
■ 234-040-031AC	1	International Machine Report-2 Description — Network Switched Services	■ 234-090-020	1	4ESS Switch LEC Number Portability User's Guide (4-97)
234-090 Feature Documents			■ 234-090-020AC	1	Local Number Portability User Guide
Feature Documents			■ 234-090-050	1	4ESS-2000 Switch 4E22 Generic Transition Document (5-97)
■ 234-090-001	1	Network Interconnect Phase I — Common Channeling Signaling Number 7	■ 234-090-051	2	4ESS-2000 Switch 4E23 Generic Transition Document (2-98)
■ 234-090-002	2	Service Switching Point — 800 (4-97)	■ Addendum	1.1	
			■ 234-090-052	1	4ESS-2000 Switch 4E24 Generic Transition Document for LEC (12-98)
			■ 234-090-115	2	LEC Switch Privates Services and Implementation Manual
			Product Release Documents		
			■ 234-090-161	1	Product Release Document — 4E16 Release 1 Generic
			■ 234-090-163	1	Product Release Document — 4E16 Release 3 Generic (6-92)

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■ 234-090-163AC	1	Product Release Document — 4E16 Release 3 Generic (6-92)	■ 234-090-202	1	Product Release Document 4E20 Release 2 Generic (4-95)
■ 234-090-164	1	Product Release Document — 4E16 Release 4 Generic (8-92)	■ 234-090-202AC	1	Product Release Document 4E20 Release 2 Generic (4-95)
■ 234-090-164AC	1	Product Release Document — 4E16 Release 4 Generic (8-92)	■ 234-090-203	1	Product Release Document 4E20 Release 3 Generic (7-95)
■ 234-090-171	1	Product Release Document — 4E17 Release 1 Generic (9-92)	■ Addendum	5/96	
■ 234-090-171AC	1	Product Release Document — 4E17 Release 1 Generic (9-92)	■ Revision 1	9/95	
■ 234-090-172	1	Product Release Document — 4E17 Release 2 Generic (4-93)	■ 234-090-203AC	1	Product Release Document 4E20 Release 3 Generic (7-95)
■ 234-090-172AC	1	Product Release Document — 4E17 Release 2 Generic (4-93)	■ 234-090-204	1	Product Release Document 4E20 Release 4 Generic (10-95)
■ 234-090-173	1	Product Release Document 4E17 Release 3 Generic (7-93)	■ 234-090-204AC	1	Product Release Document 4E20 Release 4 Generic (10-95)
■ Revision 2	9-93		■ 234-090-211	1	Product Release Document 4E21 Release 1 Generic (1-96)
■ Revision 1	7-93		■ 234-090-211AC	1	Product Release Document 4E21 Release 1 Generic (1-96)
■ 234-090-173AC	1	Product Release Document 4E17 Release 3 Generic (6-93)	■ 234-090-212AC	1	Product Release Document 4E21 Release 2 Generic (4-96)
■ 234-090-174	1	Product Release Document 4E17 Release 4 Generic (10-93)	■ 234-090-213	1	Product Release Document 4E21 Release 3 Generic (6-96)
■ 234-090-174AC	1	Product Release Document 4E17 Release 4 Generic (10-93)	■ 234-090-213AC	1	Product Release Document 4E21 Release 3 Generic (6-96)
■ 234-090-181	1	Product Release Document 4E18/4E19 Release 1 Generic (12-93)	■ 234-090-214	1	Product Release Document LEC 4E21 Release 4 Generic (9-96)
■ 234-090-182	1	Product Release Document 4E18/4E19 Release 2 Generic (4-94)	■ 234-090-214AC	1	Product Release Document 4E21 Release 4 Generic (9-96)
■ 234-090-182AC	1	Product Release Document 4E18/4E19 Release 2 Generic (4-94)	■ 234-090-221	1	Product Release Document 4E22 Release 1 Generic (1-97)
■ 234-090-183	1	Product Release Document 4E18/4E19 Release 3 Generic (7-94)	■ 234-090-221AC	1	Product Release Document 4E22 Release 1 Generic (1-97)
■ 234-090-183AC	1	Product Release Document 4E18/4E19 Release 3 Generic (7-94)	■ Addendum	1	
■ 234-090-184	1	Product Release Document 4E18/4E19 Release 4 Generic (10-94)	■ 234-090-222	1	Product Release Document 4E22 Release 2 Generic (4-97)
■ 234-090-184AC	1	Product Release Document 4E18/4E19 Release 4 Generic (10-94)	■ 234-090-222AC	1	Product Release Document 4E22 Release 2 Generic (4-97)
■ 234-090-201	1	Product Release Document 4E20 Release 1 Generic (12-94)	■ 234-090-223	1	Product Release Document 4E22 Release 3 Generic (7-97)
■ 234-090-201AC	1	Product Release Document 4E20 Release 1 Generic (12-94)	■ 234-090-223AC	1	Product Release Document 4E22 Release 3 Generic (7-97)
			■ 234-090-224	1	Product Release Document 4E22 Release 4 Generic (9-97)
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			■ 234-090-224AC	1	Product Release Document 4E22 Release 4 Generic (9-97)
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■ Addendum	1	
■ 234-090-231AC	1	Product Release Document 4E23 Release 1 Generic (1-98)
■ 234-090-232AC	1	Product Release Document 4E23 Release 2 Generic (4-98)
■ 234-090-233	1	Product Release Document 4E23 Release 3 Generic (6-98)
■ 234-090-233AC	1	Product Release Document 4E23 Release 3 Generic (6-98)
■ 234-090-234	1	Product Release Document 4E23 Release 4 Generic (9-98)
■ 234-090-234AC	1	Product Release Document 4E23 Release 4 Generic (9-98)
■ 234-090-241AC	1	Product Release Document 4E24 Release 1 Generic (1-99)
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■ 234-090-242AC	1	Product Release Document 4E24 Release 2 Generic (4-99)
■ Revision 1	8/99	
■ 234-090-243AC	2	Product Release Document 4E24 Release 3 Generic (10-99)
■ Revision 1	1-1	
■ 234-090-251AC	1	Product Release Document 4E25 Release 1 Generic (10-99)
■ 234-090-252AC	1	4E25R2 General Cancellation Notice
■ 234-090-253AC	1	Product Release Document 4E25 Release 3 Generic
■ 234-090-254AC	1	Product Release Document 4E25 Release 4 Generic
■ 234-090-500	9	LEC Feature Handbook (10-98)

**234-097 CIRs (Customer Information Releases)
RBOC/ITOC Independent Telephone Operating
Company**

■ 234-097-016NP	1	4ESS Switch 1B Processor Description
■ 234-097-017NP	1	4ESS Switch 4E18 Generic Features for Local Exchange Companies (LECs) (7-93)
234-097-018NP	1	4ESS Switch 4E20 Generic Features for Local Exchange Companies (LECs) (6-94)
234-097-019NP	2	4ESS Switch 4E21 Generic Features for Local Exchange Companies (LECs) (6-96)
234-097-020NP	3	4ESS Switch 4E22 Generic Features for Local Exchange Companies (LECs) (5-97)

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■ 234-097-021NP	1	4ESS Switch 4E23 Generic Features for Local Exchange Companies (LECs) (5-97)
■ 234-097-024NP	2	4ESS Switch 4E24 Generic Features for Local Exchange Companies (LECs) (5-99)

234-099 General Distribution CIRs

■ 234-099-014TD	1	4ESS Switch: Engineering Infor- mation for the Direct Link Node Enhanced (DLNE), Switching Systems (3-91)
■ 234-099-018IR	1	SPARES Exchange Service for Network and Signaling Products (9-93)
■ 234-099-020NP	1	4ESS Switch Warranty Support Plan Policy (6-93)

**234-1 System Description, Operation, Maintenance, Re-
trofit, and Growth**

234-100 General System Information

■ 234-100-000	17	General Description (3-98)
■ 234-100-015	4	Office Communication Facilities — Description
■ 234-100-021	8	Input/Output System Description (5-98)
■ 234-100-040	5	Office Alarm System — Descrip- tion and Theory — General Sys- tem Information (6-94)
■ 234-100-060	4	Power Distribution System — Description
■ 234-100-120	9	Common Channel Signaling Sys- tem — Common Network Inter- face (CNI) — System Description Manual (3-98)
■ 234-100-120AC	9	Common Channel Signaling Sys- tem — Common Network Inter- face (CNI) — System Description Manual (3-98)
■ 234-100-130	2	Service Circuit System (SCS) Description (10-94)
■ 234-100-130AC	5	Service Circuit System (SCS) Description (1-99)
■ 234-100-200	4	AT&T 3B20D Model 1 Computer — Attached Processor System — General System Information — Application

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■ 234-100-201	3	3B20D Model 2 and Model 3 Computer — Attached Processor System — Application
■ 234-100-205	5	Network Services Complex (NSCX) — Application (5-93)
■ 234-100-210	2	Service Circuit System (SCS) Application (10-94)
■ 234-100-210AC	4	Service Circuit System (SCS) Application (11-97)

234-101/102 Network Administration

NMC (Network Management Center)

■ 234-101-015	9	4ESS Switch Network Management Center Operating Guidelines Network Administration (3-99)
■ 234-101-020	2	Network Management Display System User Reference Manual (4E15)

MAC (Machine Administration Center)

■ 234-102-000	1	System Interface Devices
■ 234-102-010 AC	2	Circuit Maintenance System — Displays
■ 234-102-015	2	Operating Guidelines
■ 234-102-016	2	Assignment Practices
■ 234-102-019	2	Magnetic Tape Administration
■ 234-102-020	1	Transition Management
■ 234-102-025	2	Recent Change System — Recent Changes

234-103/106 Network Maintenance

TOC (Trunk Operations Center)

■ 234-103-000	6	System Interface Devices
■ 234-103-015	2	Operation Guidelines
■ 234-103-016	6	Trunk Error Analysis, Trunk Operations Center (11-93)
■ 234-103-017	1	Digital Facility Trunk Trouble Reporting Description
■ 234-103-018	5	Call Irregularity Raw Data Trap
■ 234-103-019	1	Ineffective Attempts — Definition Network Maintenance
■ 234-103-100	1	System Interface Devices — Centralized Arrangement

Number	Issue	Subject
TEC (Terminal Equipment Center)		
234-104-000	3	System Interface Devices

MOC (Maintenance Operations Center)

234-105-000	2	System Interface Devices
234-105-100	1	Centralized Arrangement — System Interface Devices Description — Network Maintenance
234-105-105	2	Centralized Arrangement — Remote Work Station Operation — Network Maintenance

Switching Management Control Center

■ 234-106-000	1	System Interface Devices
■ 234-106-015	1	Operating Guidelines

234-108 CMS (Circuit Maintenance System)

■ 234-108-031	2	1B — CMSMC — Operating Philosophies
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234-110/120 Peripheral Equipment

■ 234-110-000	4	Processor Peripheral Interface Frame and Master Control Console — Description
■ 234-110-001	4	Processor Peripheral Interface Frame and Master Control Console — Theory
■ 234-110-010	4	Peripheral Unit Bus System — Description (3-93)
■ 234-110-011	2	Peripheral Unit Bus System — Theory
■ 234-110-020	6	Network Clock Frame — Description
■ 234-110-030	1	Time Slot Interchange Frame — J4A001A-1 and J4A001A-2 — Description
■ 234-110-031	1	Time Slot Interchange Frame — J4A001A-1 and J4A001A-2 — Theory
■ 234-110-032	2	Time Slot Interchange Frame — J4A001B-1 — Description
■ 234-110-033	2	Time Slot Interchange Frame J4A001B-1 — Theory
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■ 234-110-040	1	Time Multiplexed Switching Frame — J4A002A-1 and J4A002A-2 Description

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■ 234-110-041	1	Time Multiplexed Switching Frame — J4A002A-1 and J4A002A-2 Theory	■ 234-110-100	3	Multifrequency Signaling Frame J99353A-1 — Description
■ 234-110-042	1	Time Multiplexed Switching Frame J4A002B-1 — Description	■ 234-110-101	3	Multifrequency Signaling Frame J99353A-1 — Theory
■ 234-110-043	1	Time Multiplexed Switching Frame J4A002B-1 — Theory	■ 234-110-102	2	Multifrequency Signaling Test Unit — Description
234-110-050	1	Signal Processor 1 — Description	■ 234-110-103	2	Multifrequency Signaling Test Unit — Theory
■ 234-110-051	2	Signal Processor 1 — Theory	■ 234-110-104	2	Common Channel Interoffice Signaling Continuity Check Transceiver Unit — J4A010AC-1 — Description and Theory
■ Addendum	1		■ 234-110-105	2	Common Channel Interoffice Signaling Continuity Check Transceiver and Loop-Around Test Unit — J4A010AE-1 — Description and Theory
■ 234-110-052	1	Signal Processor 1 — With Combined Distributor and Scanner Matrix Frame — Description	■ 234-110-110	2	Network Management Display Control Frame, Telemetry Frame, and Panels — Description
■ 234-110-053	3	Signal Processor 1 — With Combined Distributor and Scanner Matrix Frame — J4A003G-1, J4A003F-1 — Theory	■ 234-110-111	2	4ESS Miscellaneous Trunk Test and Support Equipment Description (6-83)
■ Addendum	1		■ 234-110-130	3	Miscellaneous Frames A, B, and C — Description and Theory
■ 234-110-060	1	Signal Processor 2 — J4A008A-1 — Description	■ 234-110-140	3	Miscellaneous Trunk Test and Support Equipment — Description
■ 234-110-061	3	Signal Processor 2 — J4A008A-1 — Theory	■ 234-110-150	2	Input/Output Frame — Description and Theory
■ 234-110-070	3	Common Channel Interoffice Signaling (CCIS) Terminal Group — J4A009A-1, J4A009B-1 — Description	■ 234-110-152	1	Input/Output Processor Frame J5A006C-1 — Description and Theory
■ 234-110-071	3	Common Channel Interoffice Signaling (CCIS) Terminal Group — J4A009A-1, J4A009B-1 — Theory	■ Addendum	1	
■ 234-110-080	4	Remote Office Test Line Frame — Description	■ 234-110-154	1	Input/Output Processor Frame — J5A006D-1 — Description and Theory
■ 234-110-081	3	Remote Office Test Line Frame — Theory	■ 234-110-160	1	Phased Announcement System — Description
■ 234-110-082AC	3	Individual Per Call Control (iPCC) — Gateway System Description (5-98)	■ 234-110-160AC	1	Phased Announcement System — Theory
■ 234-110-083AC	2	Individual Per Call Control (iPCC) — Connectivity and Maintenance Guidelines (5-98)	■ 234-110-161	1	Phased Announcement System — Theory
■ 234-110-086	1	4ESS Call Detail Recording Platform Software Release Description	■ 234-111-000	1	Voiceband Interface Frame — Description
■ 234-110-090	2	Recorded Announcement Frame — Description	■ 234-111-020	2	Metallic Terminal Frame, Test Extender, and Auxiliary Metallic Trunk Circuits — Description
■ 234-110-091	2	Recorded Announcement Frame — Theory			

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■ 234-112-000	2	Digroup Terminal — J68952B-1 and J68952A-1 — Description
■ 234-112-010	5	Digital Interface (J-68960) — Description
■ 234-112-015	4	4ESS Switch Digital Interface Frame-Export1 (DIF-E1) Description
■ 234-113-000	1	A6 Channel Bank Unitized Terminal Equipment — Application
■ 234-113-010	4	Analog Multiplex Terminal Equipment — LT-1 Connector — Description
■ 234-113-012	1	LT-2 Digital Transmultiplexer — Description
■ 234-113-020	4	D4 Channel Bank — Application
■ 234-120-010	1	53A Test Position and Position Console Interface Cabinet J1P047A — Description
234-120-011	1	53A Test Position — Operation

234-121 Remote Measurement System (RMS)

■ 234-121-105	4	RMS-D2 — User Manual (AT&T-NSD Version)
■ 234-121-107	1	SMARTS User's Reference Manual
■ 234-121-112	1	Remote Measurement System — Gateway 1 (RMS-G1) — Operation, Administration and Maintenance (OA&M) Manual (11-93)
■ 234-121-122	2	RMS-G2 — Administration Manual (6-97)
■ 234-121-140	11/96	Sentry Trunk Testing Driver Administration Guide Release 4.1

234-150 Terminal Equipment Maintenance

■▲234-150-001	6	Domestic Trunk Operations Center
■▲234-150-003	1	Domestic Trunk Operations Center — RMS-D2
■▲234-150-005	4	Service Circuit and Trunk Test Facilities — Remote Office Test Line Frame
■▲234-150-006	4	Metallic Terminal Frame
■▲234-150-010	2	Unitized Terminal Equipment — A6 Channel Bank
■▲234-150-025	1	A5 Channel — Unitized Terminal Equipment
■▲234-150-030	4	LT-1 Connector Terminal Equipment

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■▲234-150-040	2	A6B and DFSG Channel Banks — Unitized Terminal Equipment — J68957A and B Frames
■▲234-150-041	2	A6B and DFSG Channel Banks — Unitized Terminal Equipment — J98629K and N Frames
■▲234-150-042	2	A6B and DFSG Channel Banks — Unitized Terminal Equipment — J98629T and U Frames
■▲234-150-043	2	A6B and DFSG Channel Banks — Unitized Terminal Equipment — J98629W and Y Frames
■▲234-150-044	1	D4 Blank UTE (J68965A and B Frames)
■▲Addendum	1	
■▲234-150-101	6	International Trunk Operations Center
▲234-150-110	3	Operator Bridged Access Trunk Frame

234-151 Peripheral Equipment Maintenance

■▲Addendum	1	
■▲234-151-002	7	Maintenance Operations Center
■▲Addendum	2	
■▲234-151-003	9	TTY Message Analysis (Audits, Interjects, and Interrupts) (12-92) (For 4ESS Switch with 1A Processor. For 1B Processor, see 234-351-003)
■▲234-151-006	5	Master Control Console and Processor Peripheral Interface Frame
■▲234-151-011	6	Time Multiplexed Switching Frame — Switching Network
■▲Addendum	1	
■▲234-151-012	6	4ESS Switch — Time Slot Interchange Frame (TSI) (12-97)
■▲Addendum	1	
■▲234-151-013	7	Network Clock Frame (Network Clock and System Clock) — Switching Network (11-95)
■▲Addendum	2	
■▲Addendum	1	
■▲234-151-015	4	Peripheral Unit Bus System
■▲234-151-022	3	Office Procedures After Loss of AC Power (1-95)
■▲234-151-025	5	Voiceband Interface — Terminal Interface Equipment

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■▲Addendum	1				Center (3/94)
■▲234-151-031	7	Signal Processor 1 — Terminal Interface Equipment (6-96)	■▲234-152-188	1	RC Update Procedures
■▲Addendum	1		■▲234-152-189	1	NON-CCS Circuit Order-Recent Change 4E18/4E19 Generic Programs — Machine Administration Center (3/94)
■▲234-151-032	4	Signal Processor 2 — Terminal Interface Equipment (6-96)			
■▲234-151-033	4	Terminal Interface Equipment — Common Channel Interoffice Signaling Terminal Group	■▲234-152-204	1	Traffic and Plant Measurements 4E20 Generic (11-94)
■▲234-151-041	4	Service Circuits and Trunk Test Facilities — Multifrequency Signaling Frame	■▲234-152-207	1	CCS Circuit Order — Recent Change — 4E20 Generic Program Machine Administration Center (1-95)
■▲234-151-043	4	Miscellaneous Frames A, B, and C — Service Circuits and Trunk Test Facilities (5-93)	■▲234-152-208	1	4ESS Switch - Recent Change Update Library Process - 4E20 Generic - Machine Administration Center (9-94)
■▲234-151-045	5	Digroup Terminal — Terminal Interface Equipment	■▲234-152-209	1	Non-CCS Circuit Order — Recent Change — 4E20 Generic Program Machine Administration Center (1-95)
■▲234-151-048	4	Terminal Interface Equipment — D4 Channel Bank			
■▲234-151-055	8	Digital Interface Frame (DIF and DIF-TIE) — Terminal Interface Equipment (5-98)			
■▲234-151-060	2	Phased Announcement System — Operating and Trouble Clearing Procedures (12-93)	234-153 Growth		
■ Addendum	6/99		■▲Addendum	1	
■ 234-151-077	2	Service Circuit System Maintenance (10-94)	■▲Addendum	2	
■ Addendum	1		■▲234-153-010	4	I/O, IOP, TUC, CS, and PS — Growth/Degrowth (for 4ESS Switch with 1A Processor) (4-92)
■ 234-151-077AC	7	Service Circuit System (SCS) Maintenance 4 ESS Switch (6-99)	■▲234-153-011AC	2	4ESS Switch Alternate Signaling Transport Network Growth (1-98)
■▲234-151-082AC	3	Individual Per Call Control (IPCC) — Maintenance (12-97)	■▲234-153-020	6	Signal Processor 1 and Signal Processor 2 — Growth/Degrowth
■▲234-151-102	2	Switching Management Control Center	■▲234-153-025	8	Attached Processor System — Growth (8-97)
■▲234-151-106	1	Switching Management Control Center Interfaces	■▲Addendum	2	
■▲234-151-107AC	1	Method of Procedure (MOP) Evaluating Network Clock Sync	■▲234-153-030	10	Growth/Degrowth — DIF, VIF, DT, EST, and CCIS TGR
■▲234-151-120	6	Common Network Interface (11-95)	■▲234-153-045	5	Peripheral Unit Bus System Growth/Degrowth (6/94)
234-152 Machine Administration Center (MAC)			■▲Addendum	1	
■▲234-152-182	1	Routing Changes 4E18 (9-93)	■▲234-153-050	6	NM, MF, ROTL, Alarms, ABC, Power Plants, CCT, 51A TPOS and RMS-D2 — Growth/Degrowth
■▲234-152-184	1	Traffic & Plant Measurements 4E18/4E19 (6-94)	■▲234-153-051	1	Equipment Growth — Remote Access Interface Circuit
■▲234-152-187	1	CCS Circuit Order-Recent Change 4E18/4E19 Generic Programs — Machine Administration	■▲234-153-055	6	Common Network Interface Growth/Degrowth (9-98)
			■▲234-153-055AC	8	Common Network Interface Growth/Degrowth

Number	Issue	Subject
■▲Revision 1	9/96	
■▲234-153-060	1	Service Circuit System (SCS) Growth/Degrowth 4 ESS Switch (12-95)
■▲Addendum	10/99	
■▲Addendum	9/99	
■▲234-153-060AC	6	Service Circuit System (SCS) Growth/Degrowth 4 ESS Switch (9-98)

234-160 Generic Retrofit/Update

■▲234-160-020	1	4E19 to 4E20 Generic Retrofit and 4E20 ODA Update
■▲234-160-021	1	4E20 to 4E21 Generic Retrofit and 4E21 ODA Update — 4ESS Switch (12-95)
▲Addendum	1	
▲234-160-022	1	4E21 to 4E22 Generic Retrofit and 4E22 ODA Update — 4ESS Switch (12-96)
■▲Addendum	1	
■▲234-160-023	1	4E22 to 4E23 Generic Retrofit and 4E23 ODA Update — 4ESS Switch (1-98)
■▲Addendum	3	
■▲Addendum	2	
■▲234-160-024	1	4E23 to 4E24 Generic Retrofit and 4E24 ODA Update — 4ESS Switch (1-99)
■▲234-160-025	1	4E24 to 4E25 Generic Retrofit and 4E25 ODA Update — 4ESS Switch (11-99)
■▲234-160-201	4	XTSI Release 1 Software Update (6-99)
■▲234-160-201AC	2	XTSI Software Update 4E24 (12-98)
■▲234-160-203	1	XTSI Release 2 Software Update Tool User Guide (1-98)
■▲234-160-203AC	1	XTSI Release 2 Software Update Tool User Guide for AT&T (1-98)
■ 234-160-204	1	SCS Software Update Tool Users Guide (1-98)
■▲234-160-210	1	4ESS Switch XTSI Release 3 Software Update Tool User's Guide (12-98)
■▲234-160-210AC	1	4ESS Switch XTSI Release 3 Software Update Tool User's Guide (12-98)

Number	Issue	Subject
▲234-160-314	1	4AP<13> to 4AP<14> Retrofit — AT&T 3B Computer — 4ESS Switch (12-95)
234-160-315	1	4AP<14> to 4AP<15> Retrofit — 3B Computer APS — 4ESS Switch (12-96)
■ 234-160-316	1	4AP<15> to 4AP<16> Retrofit — 3B Computer APS — 4ESS Switch (2-98)
■ 234-160-317	1	4AP<16> to 4AP<17> Retrofit — 3B20D Computer APS — 4ESS Switch (1-99)
■ 234-160-417	1	4AP<16> to 4AP<17> Retrofit — 3B21D Computer APS — 4ESS Switch (1-99)
■ 234-160-418	2	4AP<17> to 4AP<18> Retrofit — 3B21D Computer APS — 4ESS Switch

234-180 Software Description

234-180-001	2	Guide to Software Documenta- tion
234-180-002	3	System Software Overview
234-180-010	1	Macros
234-180-020	4	Diagnostic Language — Dial
Addendum	2	
234-180-100	1	Operational Software Control Structure
234-180-111	1	International Call Processing Programs
234-180-112	1	Domestic Call Processing
234-180-120	5	Translation Data Structures, Lay- outs, and Associated Routines
Addendum	1	
234-180-121	2	Network Program
234-180-131	2	Overload Control Program
234-180-140	3	Traffic and Plant Measurements Programs
Addendum	2	
234-180-150	1	Recent Changes and Data Verifi- cation Programs
234-180-200	3	Maintenance Software Control Structure
234-180-210	2	Software Integrity — Monitor and Control Programs
Addendum	1	
234-180-220	2	Audit Programs
234-180-240	3	Trunk Maintenance Administra- tion Program

Number	Issue	Subject	Number	Issue	Subject
Addendum	1		234-185-021	1	Generic Retrofit and ODA Update — Planning and Scheduling Guide — 4E20/4E21 (9-95)
234-180-241	2	Trunk Error Analysis Program	234-185-022	2	Generic Retrofit and ODA Update — Planning and Scheduling Guide — 4E21 to 4E22 (4-97)
Addendum	1		■ 234-185-023	2	Generic Retrofit and ODA Update — Planning and Scheduling Guide — 4E22 to 4E23 (1-98)
234-180-242	2	Service Circuit Test Program (SVCT)	■ 234-185-024	2	Generic Retrofit and ODA Update — Planning and Scheduling Guide — 4E23 to 4E24 (1-99)
234-180-245	3	Carrier Group Alarm Program	■ 234-185-025	1	Generic Retrofit and ODA Update — Planning and Scheduling Guide — 4E24 to 4E25 (10-99)
234-180-246	2	Trunk Testing Programs			
Addendum	2				
234-180-247	1	Vacant Code Analysis Program			
Addendum	1				
234-180-249	1	International Trunk Maintenance Programs			
Addendum	1				
234-180-250	2	Maintenance Control Program			
Addendum	2				
234-180-251	1	Automatic Routine Maintenance Exercise Program	234-2 Attached Processor System (APS)		
234-180-252	2	Alarm Program (ALRM01)	●■ 234-200-400	4	Attached Processor System (APS) 4ESS Switch Application Maintenance Reference Handbook (9-99)
234-180-254	3	Library Programs			
Addendum	1				
234-180-260	2	Diagnostic Programs			
Addendum	1				
234-180-280	2	Peripheral Utility Program (PULP)	234-3 4ESS Switch with 1B Processor		
Addendum	1		234-301 General Information		
234-180-300	2	Interrupt Software Control Structure	■ 234-301-001	6	4ESS Switch 1B Processor — General Description (12-98)
234-180-310	2	Peripheral Units Fault Recovery Programs	■ 234-301-002	2	Diagnostic Program Application Description (2-95)
Addendum	2		234-301-003	1	Generic Utility Program Application — Description (4-94)
234-180-320	1	Error Analysis Program	■ 234-301-004	5	4ESS Switch With 1B Processor — Master Control Complex (MCC) Description (2-99)
234-180-330	3	System Recovery, Initialization, and Reinitialization			
234-182 System Evaluation and Acceptance Requirements			234-310 Administration Information		
■ 234-182-000	7	Frame and Subsystem Prerequisite Testing	■ 234-310-001	3	Utility System User's Guide (11-95)
234-183 Precutover Trunk Testing			■ 234-310-002	1	4ESS 1B Processor Utility System Workstation Configuration Instructions (3-95)
234-183-000	5	Domestic	■ 234-310-010	1	Peripheral Unit Bus with 1B Processor System Description (12-98)
234-185 Generic Retrofit and ODA Update — Planning and Scheduling Guide			234-310-034	1	1B Processor Expanded Time Slot Interchange (XTSI) Description (8-96)
234-185-020	1	Generic Retrofit and ODA Update — Planning and Scheduling Guide — 4E19 to 4E20 (11-94)			

Number	Issue	Subject	Number	Issue	Subject
■ 234-310-034AC	2	1B Processor Expanded Time Slot Interchange (XTSI) Description (5-99)	■▲234-351-003	6	4ESS Switch With 1B Processor — Output Message Analysis (Audits, Interjects, Interrupts, and BLMs) (6-99)
234-310-107	3	1B Processor — 4E21 Generic Maintenance Reference Handbook (9-96)	■▲234-351-003AC	2	4ESS Switch With 1B Processor — Output Message Analysis (Audits, Interjects, Interrupts, and BLMs)
Appendix	1	1B Processor — 4E21 Generic Maintenance Reference Handbook (9-96)	■ 234-351-004	4	1B Processor Cabinet Trouble Clearing Procedures (CC, PS, PS Bus, CS, CS Buss, IFB, AUI, MUP, SSD And XPWR) (5-97)
234-310-205	2	1B Processor — Program Address Interpretation Guide Description (1-95)	▲Addendum	1	
■ 234-310-221	1	1B Processor — 4E22 Generic Maintenance Reference Handbook (5-97)	▲234-351-006	1	1B Processor Conversion Switch Unit (PUB, AUB, GCP, SSD) Trouble Clearing — Task Oriented Practice (TOP) (2-94)
■ Revision 1	5/97		■▲234-351-010	1	4ESS Auxiliary Data System 1B Processor
■ 234-310-221AC	1	1B Processor — 4E22 Generic Maintenance Reference Handbook (1-97)	■▲234-351-011	3	1B Processor Expanded Time Slot Interchange (XTSI) Cabinet Trouble Clearing Procedures (6-99)
■ Revision 1	12/98		●■▲234-351-011AC	2-1	1B Processor Expanded Time Slot Interchange (XTSI) Cabinet Trouble Clearing Procedures (6-99)
234-310-231	1	4ESS Switch 1B Processor — 4E23 Generic Maintenance Reference Handbook (12-97)	■▲234-351-013	2	Network Clock/System Clock
■ 234-310-231AC	1	4ESS Switch 1B Processor — 4E23 Generic Maintenance Reference Handbook (12-97)	■ 234-351-015	1	4ESS Switch with 1B Processor Peripheral Unit Bus System Trouble Clearing
■ 234-310-241	1	4ESS Switch 1B Processor — 4E24 Generic Maintenance Reference Handbook (1-99)	■▲234-351-016	2	4ESS Switch with 1B Processor — Attached Processor Interface Frame (1-98)
■ Revision 1	4/99		234-351-020	1	J5A006A-1 Input/Output Frame — 1B Processor (11-93)
■ 234-310-241AC	1	4ESS Switch 1B Processor — 4E24 Generic Maintenance Reference Handbook (1-99)	▲Addendum	1	
■ 234-310-251	1	4ESS Switch 1B Processor — 4E25 Generic Maintenance Reference Handbook (9-99)	▲234-351-021	1	J5A006C-1 Input/Output Processor Frame — 1B Processor (2-94)
■ 234-310-251AC	1	4ESS Switch 1B Processor — 4E25 Generic Maintenance Reference Handbook (9-99)	▲Addendum	1.2	
■ 234-310-261	1	4ESS 1B MTCE REF HDBK4E26* (LEC) 2V	▲234-351-022	1	J5A006D-1 Input/Output Processor Frame — 1B Processor (2-94)
■ 234-310-261AC	1	4ESS SW 1B MTCE REF HDBK * 4E26 GENERIC	■▲234-351-036	1	4ESS Switch Model 3500-535 Ring, Tone and Interrupter Plant Trouble Clearing TOP (6-98)
234-351 Peripheral Equipment Maintenance			■▲Addendum	1-2	
■▲Addendum	2		■▲234-351-120	2	4ESS Switch Common Network Interface (3-98)
●■▲234-351-002	7	4ESS Switch With 1B Processor — Maintenance Operations Center (12-99)			

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■▲Addendum	1-2	
■▲234-351-120AC	2	4ESS Switch Common Network Interface (3-98)
234-353 Growth		
■▲234-353-001	1	4ESS Switch - 1B Processor - Initial Installation (11-95)
■▲234-353-002	1	4ESS Switch - 1A Power Down and Conversion Switch Removal (4-96)
■▲234-353-003	1	4ESS Switch - 1B Processor — Initial Installation (for Pacific Bell Offices) (1-96)
■▲Addendum	1	
■▲234-353-010	4	1B Processor Growth/Degrowth (1-98)
■▲Addendum 1	1-3	
■▲Addendum	2-2	
■▲234-353-035	4	XTSI Release 1 Growth/Degrowth (6-99)
■▲Addendum	2-2	
■▲234-353-035AC	2	XTSI Release 1, 2 and 3 Growth/Degrowth (6-99)
■▲234-353-040	1	4ESS Switch With 1B Processor TMS and TSI Growth/Degrowth
■▲234-353-045	3	4ESS Switch With 1B Processor Peripheral Unit Bus System Growth/Degrowth (12-98)
■ 234-353-050	1	4ESS Switch with 1B Processor - NM, MF, ROTL, Alarms, ABC, Power Plants, DRO, CCT, 51A TPOS, and RMS-D2 Growth/Degrowth
■▲234-353-400	1	4ESS Switch 3B20D Attached Processor System (APS) to 3B21D APS Conversion - Office with DLN00 5, DLN 00 10, DLN32 5, DLN32 10 (12-98)
■▲234-353-400AC	1	4ESS Switch 3B20D Attached Processor System (APS) to 3B21D APS Conversion (7-98)
■▲234-353-401	1	4ESS Switch 3B20D Attached Processor System (APS) to 3B21D APS Conversion - Office with DLN00 2, DLN00 7, DLN32 2, DLN32 7 (12-98)
■▲Addendum	1	
■▲234-353-425	2	4ESS Switch 3B21D Attached Processor System (APS) Growth (3-99)

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234-355 System Evaluation and Acceptance Tests		
■▲234-355-001	4	4ESS Switch With 1B Processor — Final Verification Tests — System Evaluation and Acceptance Tests (12-98)
■▲234-355-005	4	4ESS Switch Operational Readiness Tests System Evaluation and Acceptance Tests (12-98)
▲234-355-010	1	4ESS Switch with 1B Processor Maintenance Function Verification System Evaluation and Acceptance Tests
■▲234-355-015	1	1B Processor — Stand-Alone and Limited Access Tests Description (11-95)
234-356 Operations Support Systems		
●■ 234-356-001	2	Office Data Assembly Manager (ODAMANager) Operations and Maintenance Guide (2-99)
■ 234-356-001AC	5	Recent Change Administration System Operations and Maintenance Guide (10-99)
234-380 Software Description		
■ 234-380-020	1	1B Processor Assembly Language Software Description 4E19 Generic Program (6-94)
■ 234-380-030	1	1B Processor Software Description Program Listing (6-94)
234-380-230	1	Diagnostic Results Post-Processing Program Software Description 1B Processor (6-94)

234-381 Growth and Degrowth

234-381-000	2	4ESS Switch Growth and Degrowth with 1B Processor General Description (11-95)
234-381-001	2	4ESS Switch Growth with 1B Processor System Performance Prerequisites and Verification Tests (11-95)

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234-382 System Evaluation and Acceptance Requirements		
234-382-001	2	4ESS Switch with 1B Processor — Final Verification Tests — System Evaluation and Acceptance Requirements (9-96)
234-382-005	3	4ESS Switch with 1B Processor — Operational Readiness Tests — System Evaluation and Acceptance Tests (9-96)
234-382-010	2	4ESS Switch with 1B Processor — Office Data and Maintenance Function Verification System Evaluation and Acceptance Requirements (9-94)
234-382-015	1	1B Processor - Stand-Alone Limited Access Tests Description (6-94)