

**NUMERICAL INDEX — DIVISION 314
DIGITAL AND ANALOGUE DATA TRANSMISSION SYSTEMS**

1. GENERAL

- 1.01** This section provides an index of System-issued sections in Division 314.
- 1.02** This section reverted to Issue 1 in May 1976. Prior to that date there had been 99 issues of the section.
- 1.03** A bullet (●) indicates an item that has been added or changed since the previous issue of the index.
- 1.04** 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.
- 1.05** A heart (♥) indicates a new or reissued item which, because of its limited need, will not be distributed on standing order except through coded distribution. Additional copies may be obtained by placing regular (one-time) orders.
- 1.06** A spade (♠) indicates an item not on microfiche. This index indicates the latest issue for hard-copy BSPs. In some cases, the microfiche BSP will reflect the next higher issue as a result of the reduced distribution interval.
- 1.07** "Add" is the abbreviation for Addendum.

2. LAYERS

- 2.01** This division is arranged in layers as follows:
 - 314-0 Indexes, Equipment Test Lists, and Data Line Switching Network
 - 1 Transaction Network Services
 - 2 Data Systems on Direct Distance Dialing (DDD) Network
 - 4 Data Systems on Private Lines
 - 5 A1 Digital and SAGE Data Transmission Systems
 - 6 Wideband Data Transmission Systems
 - 7 Telephotography
 - 8 Data Systems — Common Circuits, Equipment, and Procedures
 - 9 Digital Data System

3. INDEX

Section Number	Issue	Subject
314-0 INDEXES, EQUIPMENT TEST LISTS, AND DATA LINE SWITCHING NETWORK		
314-000 Indexes		
● ♠ 314-000-000	40	Numerical Index — Division 314 — Digital and Analogue Data Transmission Systems
314-001 Equipment Test Lists		
314-001-011	2	ETL
314-010 Data General		
314-010-100	1	Analog Transmission Parameters Description
314-010-101	2	Data General — Data Testing Principles
314-010-102	1	Data Services Support
314-010-103	1	Interconnection/Interpositioning

Section Number	Issue	Subject
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314-025 Test Lines Employing 154A1 DATAPHONE® Subsets		
314-025-500	1	Testing Procedures at Telegraph Test or Serviceboards
314-1 TRANSACTION NETWORK SERVICES		
314-100 Transaction Network		
314-100-010	2	Transmission Requirements
314-2 DATA SYSTEMS ON DIRECT DISTANCE DIALING (DDD) NETWORK		
314-200 DATAPHONE Systems Using 130-Type Subscriber Sets		
314-200-100	1	Description — Low-Speed, One-Way, DATAPHONE® Service
314-200-105	1	Description — Test Center Testing Arrangement
314-200-500	1	Use of Test Center Testing Arrangements
314-205 DATAPHONE Systems-Transmission Maintenance, Loops and Trunks		
314-205-300	3	"DATAPHONE®" Data Communications Service — Overall Maintenance Procedures — Data Systems on the Public Switched Network
314-205-301	1	Data Systems — DATASPEED® Service and Data Access Arrangements on Direct Distance Dialing Network — Methods of Investigating Trouble Reports and/or Tariff Compliance When Using Acoustically or Inductively Coupled Devices
314-205-500	5	"DATAPHONE®" Data Communications Service — Overall Data Transmission Test Requirements — Data Systems on the Public Switched Network
314-205-501	6	"DATAPHONE®" Data Communications Service — Test Requirements for Subscriber, Remote Exchange, Foreign Exchange, PBX, and Wide Area Telecommunications Service Lines — Data Systems on the Public Switched Network
314-205-503	4	"DATAPHONE®" Data Communications Service — Minimum Acceptable Performance (MAP) Criteria — Data Systems on the Public Switched Network
314-4 DATA SYSTEMS ON PRIVATE LINES		
314-400 Data Circuits — IBM Transceivers		
314-410 Private Line Data Circuits		
314-410-100	3	Voice Bandwidth — Description
314-410-104	2	Voice Bandwidth — Circuit Conditioning Requirements Using the Collins CLA-Type System

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SECTION 314-000-000

Section Number	Issue	Subject
314-410-300	3	Voice Bandwidth — Maintenance
Add 314-410-310	1	
314-410-310	3	Digital Data System — Local Loop — Maintenance Procedures
314-410-311	1	Local Area Data Channels — Maintenance Procedures
314-410-312	1	Local Area Data Channels — Tests and Requirements
Add 314-410-500	1	
314-410-500	6	Voice Bandwidth Private Line Data Circuits — Transmission Requirements
314-410-510	4	Local Loop — Tests and Requirements — Digital Data Systems
• 314-410-550	2	"DATAPHONE®" Data Communications Service — Overall System Description — Select-A-Station Service
314-410-560	1	Telemetry/Alarm Bridging Service — Description
• Add 314-410-570	1	
314-410-570	1	Alarm Services — Description

314-411 Private Line Data Systems — Special Network

Add 314-411-106	1	
♥ 314-411-106	1	Special Supergroup System — USAF X-147 — Description
Add 314-411-206	1	
♥ 314-411-206	1	Special Supergroup System — USAF X-147 — Installation and Line Up
Add 314-411-306	1	
♥ 314-411-306	1	Special Supergroup System — USAF X-147 — General Maintenance
♥ 314-411-406	1	Special Supergroup System — USAF X147 — System Drawings
314-411-500	1	United Air Lines Reservation System — Overall Tests and Trouble Location
314-411-501	1	Federal Aviation Agency — Automatic Data Interchange System (ADIS) — Over-all Tests and Trouble Location
314-411-502	2	American Airlines Reservation System — Over-all Tests and Troubles Location
Add 314-411-503	1	
314-411-503	1	Eastern Airlines Reservation System — Over-all Tests, Trouble Location and Reporting Procedures
314-411-504	3	Strategic Air Command Control System (SACCS) — Description and Service Maintenance
Add 314-411-506	1	
♥ 314-411-506	1	Special Supergroup System — USAF X-147 — Tests and Trouble Location
314-411-510	2	E2-Telemetry Data Facilities — Maintenance Considerations

Section Number	Issue	Subject
314-411-520	1	FAA — Radar Remoting Service — X-133 Drawings <i>Not given general distribution — cannot be ordered.</i>
314-411-521	1	FAA — Radar Remoting Service — X-133 — Theory of Operations <i>Not given general distribution — cannot be ordered.</i>
314-411-522	1	FAA — Radar Remoting Service — X-133 — Transmitting Terminal <i>Not given general distribution — cannot be ordered.</i>
314-411-523	1	FAA — Radar Remoting Service — X-133 — Receiving Terminal <i>Not given general distribution — cannot be ordered.</i>

314-5 A1 DIGITAL AND SAGE DATA TRANSMISSION SYSTEMS

314-500 A1 Digital Data Transmission System

314-500-105	2	Using Four-Phase Data Sets — General Description
314-500-305	2	Using Four-Phase Data Sets — Periodic Test Intervals
Add 314-500-505	1	
314-500-505	3	Using 4-Phase Data Sets — Trouble Testing and Location

314-501 Transmitter

314-501-105	1	Description — Four-Phase
314-501-305	1	Maintenance Test — Four-Phase

314-502 Receiver

314-502-105	1	Description — Four-Phase Receiver
314-502-305	1	Four-Phase Digital Data Receiver — Maintenance Test

314-504 Transfer and Control Circuit

314-504-100	3	Description
314-504-300	2	Analysis and Clearance of Trouble
314-504-501	2	Out-of-Service Tests

314-505 Word Generator

314-505-100	1	Description
314-505-301	1	Circuit SD-1G097-01 — Analysis and Clearance of Trouble
314-505-302	2	Circuit SD-1G005-01 — Analysis and Clearance of Trouble
314-505-501	2	Circuit SD-1G097-01 — Out-of-Service Tests
314-505-502	2	Circuit SD-1G005-01 — Out-of-Service Tests

314-506 Matching and Error Counting Circuit

314-506-100	1	Description
314-506-501	3	Out-of-Service Tests

Section Number	Issue	Subject	Section Number	Issue	Subject
314-507 Parity Check Circuit			314-555-501	1	Dual Facility Trunks — Over-all Tests
314-507-100	2	Description	314-555-502	1	Dual Facility Trunks — Local Tests of A/G Trunks at Site Testboard
314-507-501	3	Out-of-Service Tests	314-555-503	1	Dual Facility Trunks — Local Tests of A/G Trunks at DC Testboard
314-508 Jack and Connector Circuit			314-556-100	2	Common User Group Equipment — Description
314-508-100	2	Description	314-556-300	1	Emergency Patching — Channels and Trunks — Common User Group Equipment
314-509 Miscellaneous Test Circuit			Add 314-556-501	1	
314-509-100	1	Description	314-556-501	1	Common User Group Equipment — Link and Controller — Tests
314-510 A1 Digital Data Signaling System			Add 314-556-502	1	
Add 314-510-100	1		314-556-502	1	Common User Group Equipment — Channel and Sender Circuits — Tests
314-510-100	2	Description — Data Testboard and Associated Circuits	Add 314-556-503	1	
314-550 SAGE Data Transmission Systems — General Information			314-556-503	1	Common User Group Equipment — Over-all Tests
314-550-100	1	General Considerations and Description	314-556-504	2	Common User Group Equipment — Trunks and Code Receivers — Tests
Add 314-550-101	1		314-556-505	1	Common User Group Equipment — Tests of Automatic Test Circuit
314-550-101	1	Addressable Data Bridge and Control Circuit SD-1G245-01 — Description	314-556-506	1	Common User Group Equipment — CODAN Interrupter Tests
Add 314-550-102	1		314-557-501	2	43A1 Carrier Telegraph Terminal — Tests
314-550-102	1	Crosstell Data Bridge and Control Circuit SD-1G250-01 — Description	314-560 SAGE Services		
Add 314-550-300	1		314-560-000	2	Operation and Administration of the Trouble Report Center at Sage System Direction Centers
314-550-300	2	Initial Testing and Line-Up of Sage Data Circuits	314-560-001	1	Description and Use of Marker Card — Sage Form E-4429
314-550-305	3	Using Four-Phase Data Sets — Initial Testing and Line-Up Procedure	314-560-002	1	Preparation and Use of Cross-Connection Running List — Sage Form E-4461
314-550-306	1	Addressable Data Bridge and Control Circuit SD-1G245-01 Operation and Maintenance	314-560-005	1	Operation and Control of Sage — Weather Network (ADTWC)
314-550-307	1	Crosstell Data Bridge and Control Circuit SD-1G250-01 — Operation and Maintenance	314-561-100	1	Dial Restoration Panel for SAGE — General Considerations
314-551 Radar Data Systems			314-6 WIDEBAND DATA TRANSMISSION SYSTEMS		
314-551-100	1	Description	314-601 Wideband Service Bay		
314-552 Ground-to-Ground Data Systems			Add 314-601-110	1	
314-552-100	1	Description	314-601-110	1	Description
314-553 Ground-to-Air Data Systems			314-601-120	1	J70168
314-553-100	1	Description	314-602 Wideband Data Test Bay		
314-553-105	4	Transmission Aspects of Voice Channels	314-602-100	4	Data Systems Central Office — 915-Type
314-553-300	2	Periodic Test Intervals	314-602-501	2	915 — Test Procedures for 303-Type Data Station — Restored Polar Line Signal Operation
314-554 Lincoln Digital Data System			314-602-520	1	Test Procedures for 301B-Type Data Station
314-554-100	1	Description			
314-555 Private Service Systems — Air-Ground Voice Communication System					
314-557)					
314-555-100	1	Dual Facility Trunk Equipment			

SECTION 314-000-000

**Section
Number Issue Subject**

314-605 Toll Systems A2 (40.8-Kilobit) Data Transmission System

- Add 314-605-100 1
- 314-605-100 1 Description
- 314-605-300 1 Line-Up Procedure
- 314-605-301 1 Trouble Location
- 314-605-302 1 Routine Maintenance
- 314-605-500 1 General Maintenance
- 314-605-501 1 Overall Gain Adjustments
- 314-605-502 1 Gain Frequency Measurements
- 314-605-503 2 Noise Measurements
- 314-605-504 1 Crosstalk Coupling — Loss Measurements
- 314-605-505 1 Digital Error Rate Measurements
- Add 314-605-506 2
- 314-605-506 2 Relative Envelope Delay Measurements
- 314-605-507 1 Oscilloscope Tests

314-608 Half-Groupband Data Systems

- 314-608-100 2 2-Point Private Line — Description
- 314-608-300 2 2-Point Private Line — Lineup Objectives and Trouble Location
- 314-608-301 1 2-Point Private Line — Trouble Location
- 314-608-500 2 2-Point Private Line — Maintenance Test Procedures

314-609 Groupband Data Systems (Restored Polar)

- 314-609-100 1 2-Point Private Line — Description
- 314-609-110 1 Switched Network — General Description
- 314-609-310 1 Switched Network and 2-Point Private Line — Line-Up Procedures
- 314-609-311 1 Groupband Data Systems — Switched Network and 2-Point Private Line — Trouble Location
- 314-609-510 2 Switched Network and 2-Point Private Line — General Maintenance
- 314-609-511 1 Switched Network and 2-Point Private Line — Gain-Frequency Measurements
- 314-609-512 1 Switched Network and 2-Point Private Line — Noise Measurements
- 314-609-513 1 Switched Network and Two-Point Private Line — Relative Envelope Delay Measurements

314-610 Super Groupband Data Systems

- 314-610-100 1 Supergroup Wideband Data Systems (Restored Polar) — 2-Point Private Line — Description
- 314-610-300 1 Supergroup Wideband Data Systems — Lineup Procedures

- Section
Number Issue Subject
- 314-610-500 1 Supergroup Wideband Data System — General Description

314-640 WLR-1 and WLR-2 Wideband Loop Repeaters

- Add 314-640-100 1
- 314-640-100 1 WLR-1 and WLR-2 Wideband Loop Repeaters — (10 to 51 Kc) — Description
- 314-640-200 2 WLR-2 Wideband Loop Repeater — Installation
- 314-640-300 2 WLR-1 and WLR-2 Wideband Customer Loop — Initial Line-Up Procedure
- 314-640-500 2 WLR-1 and WLR-2 Wideband Loop Repeaters — (10 to 51 KC) — Trouble-Shooting Procedures and Maintenance Tests

314-641 WLR-3 Wideband Loop Repeater

- Add 314-641-100 2
- 314-641-100 1 Description
- Add 314-641-200 1
- 314-641-200 1 Installation
- Add 314-641-300 1
- 314-641-300 1 Initial Line-up
- 314-641-500 1 Maintenance

314-642 WLR-4 Wideband Loop Repeaters

- 314-642-100 1 Description
- 314-642-200 2 Installation
- 314-642-300 1 Initial Line-up
- 314-642-500 1 Maintenance

314-643 WLR-5 Wideband Loop Repeater

- 314-643-100 2 1 Through 50 kHz — Description
- Add 314-643-200 1
- 314-643-200 3 1 Through 50 kHz — Installation and Connection
- 314-643-300 2 1 Through 50 kHz — Maintenance
- 314-643-500 3 1 Through 50 kHz — Test Procedures

314-644 Wideband Regenerative Repeater (WRR-1), J70174

- 314-644-100 1 Description and Operation
- 314-644-200 1 Identification and Connections
- 314-644-500 1 Test Procedures

314-645 "DATAPHONE®" Digital Service

- 314-645-100 1 1.544-MB/S Digital Service with 1.344-MB/S Option Overall Description
- 314-645-300 1 1.544-MB/S Digital Service with 1.344-MB/S Option Maintenance and Trouble Isolation Procedures
- 314-645-500 1 1.544-MB/S Digital Service with 1.344-MB/S Option Test Procedures

Section Number	Issue	Subject	Section Number	Issue	Subject
314-7 TELEPHOTOGRAPHY			314-805 Station Monitoring Test Line Circuit SD-70925-01		
314-715 General Descriptive Information			314-805-100	1	Description
314-715-100	3	General Descriptive Information	314-805-500	1	Use at Testboards and Serviceboards
314-715-101	4	Tonloc Equipment	314-810 Station Test Line SD-70926-01		
314-715-102	1	104A and 105A Coupling Units	314-810-100	1	Description
314-715-103	2	Frequency Weighting Network for Noise Measurements	314-810-300	1	Circuit Order and Routine Tests
314-715-104	2	Tone Operated Control Circuit — TOCC Per SD-56524-01	314-810-500	1	Use at Telegraph Testboards or Serviceboards
314-715-105	1	Description — 71A1 Level Compensator	314-811 Station Test Line — 1A Transaction Telephone		
314-715-500	1	Delay Equalizers for H-44-25-S Cable and Open Wire Circuits	314-811-100	2	Description
314-715-502	2	Telephotograph Apparatus — Coupling to Telephone Lines	314-811-180	1	Summarizing Specification
314-715-504	3	Tone-Operated Control Circuit (SD-56524-01) — Out-of-Service Tests	314-811-200	2	Installation and Connections
314-715-505	1	71A1 Level Compensator — Tests and Adjustments	314-811-500	2	Maintenance and Tests
314-728 Initial and Periodic Maintenance Tests			314-815 Voiceband Multiport Split Bridge With Gain, Equalization and Test Access		
314-728-500	3	General	314-815-100	2	Description
314-728-501	3	Central Office Equipment	314-815-500	1	Installation and Maintenance Test Procedures
314-728-502	4	Overall Circuit Tests	314-820 Equipment Components Having General Application		
314-730) Station Equipment			314-820-100	2	Envelope Delay Characteristics of 200-Type Delay Equalizers
314-731)			314-820-103	3	Envelope Delay Characteristics of 366 and 367 Type Equalizers
314-730-500	2	Line-Up of One-Way Local Channels and Equipment at Subscriber Locations	314-820-104	2	Envelope Delay Characteristics of 384- and 385-Type Equalizers — Description
314-730-501	1	Line-Up of 4-Wire Local Channels and 110A Key Station Equipment	314-820-105	2	Attenuation Equalizer and Noise Filter
314-730-502	1	Tests on Customer's Temporary Terminating Equipment	314-820-106	1	J99347 VF Amplitude and Delay Equalizing Equipment — Description
314-731-100	2	110A Key Equipment — Description, Installation, and Maintenance	314-820-107	1	950A-Type Equalizer — Description
314-732 110A Key Equipment			314-820-108	1	950B-Type Equalizer — Description
314-732-100	2	Stationary — (Telephoto) — Description	314-820-206	1	J99347 VF Amplitude and Delay Equalizing Equipment — Installation and Connections
314-732-101	1	Portable — Description, Installation, and Maintenance	314-820-207	1	950B-Type Equalizer — Prescription Settings
314-732-501	1	Stationary — Installation, Tests, and Maintenance	314-820-506	1	J99347 VF Amplitude and Delay Equalizing Equipment, Test Procedures, and Maintenance
314-8 DATA SYSTEMS — COMMON CIRCUITS, EQUIPMENT, AND PROCEDURES			314-821 406A Tone Generator		
314-800 Station Monitoring Test Trunk SD-98141-01			314-821-100	1	Description
314-800-300	1	Circuit Order and Routine Tests	314-821-200	1	Installation and Connections
			314-821-500	1	Test Procedures
			314-825 Data Test Center		
			♣ 314-825-500	2	Dataspeed Tests Using Dataspeed Tape Receiver Unit

SECTION 314-000-000

Section Number	Issue	Subject	Section Number	Issue	Subject
314-825-501	2	Dataspeed Tests Using Dataspeed Tape Sender Unit	● Add 314-910-500	1	
314-825-502	2	905 AX1 Data Test Set	314-910-500	4	Office Channel Unit and Auxiliary Circuits — Test Procedures
314-850) Procedures Having General Application (314-855)			314-911-100	2	Subrate Data Multiplexer — Description
314-850-500	1	Testing of Pairs for Data Circuits	314-911-300	1	Subrate Data Multiplexer — Maintenance and Trouble Location Procedures
314-9 DIGITAL DATA SYSTEM			Add 314-911-501	1	
314-900-100	4	Private Line Service — Overall Description	314-911-501	1	Subrate Data Multiplexer — Initial Tests
314-900-101	1	Overall Description	314-911-502	1	Subrate Data Multiplexer — Trouble Location and Correction Tests
314-900-300	3	Private Line Service — Overall Maintenance	314-912-100	3	T1 Data Multiplexer — Description
314-900-301	1	Overall Maintenance	314-912-300	3	T1 Data Multiplexer — Maintenance and Troubleshooting
314-901-011	3	Hub Identification Coding Plan	314-912-500	3	T1 Data Multiplexer — Tests
314-901-200	2	2-Point and Multipoint Private Line Circuit — Turn-Up Procedures	314-913-100	1	Master Timing Supply Interface — Description
314-901-201	1	Multipoint Circuit — Turn-Up Procedures	● Add 314-913-110	1	
314-901-210	1	Access Line — Turn-Up Procedures	314-913-110	1	Nodal Timing Supply — Description
314-901-215	1	Trunk Turn-Up Procedures	● Add 314-913-115	1	
314-901-300	3	2-Point and Multipoint Private Line Circuit — Maintenance Procedures	314-913-115	1	Secondary Timing Supply — Description
314-901-301	1	Serving Test Center — Multipoint Private Line Circuit — Maintenance and Test Procedures	Add 314-913-120	1	
314-901-310	1	Serving Test Center — Maintenance Procedures	314-913-120	1	Local Timing Supply — Description
314-901-500	4	2-Point and Multipoint Private Line Circuit — Test Procedures	314-913-215	1	Changing a Secondary Timing Supply to a Nodal Timing Supply — Conversion Procedure
314-901-510	1	Serving Test Center — Test Procedures	314-913-300	1	Master Timing Supply — Maintenance and Troubleshooting
314-901-520	1	Automated Bit Access Test System (ABATS) — Description and Operation	● Add 314-913-310	1	
♥ 314-901-530	1	Bit Access Test System (BATS) and Line Access Test System (LATS) — Manual Test Procedures	314-913-310	1	Nodal Timing Supply — Maintenance and Troubleshooting
♥ 314-901-531	1	Automated Bit Access Test System — Remote Test Procedures	● Add 314-913-315	1	
♥ 314-901-532	1	Automated Bit Access Test System — Remote Data-Base Update Procedures	314-913-315	1	Secondary Timing Supply — Maintenance and Troubleshooting
314-902-200	3	Turn-Up Procedure — DS-0 Facility	314-913-320	1	Local Timing Supply — Maintenance and Troubleshooting
314-903-200	2	DS-1 Facility — Turn-Up Procedures	314-913-500	2	Master Timing Supply — Tests
314-903-300	1	DS-1 Facility Maintenance Procedures	314-913-510	2	Nodal Timing Supply — Tests
314-910-100	4	Office Channel Units and Auxiliary Circuits — Description	314-913-515	2	Local Timing Supply — Tests
Add 314-910-300	1	.	314-913-520	2	Local Timing Supply — Tests
314-910-300	4	Office Channel Unit and Auxiliary Circuits — Maintenance Procedures	314-914-100	2	DSX-0 Cross-Connect — Description
			314-914-300	1	DSX-0 Cross-Connect — Maintenance
			Add 314-914-400	1	
			314-914-400	1	DSX-0 Cross-Connect — Connections
			314-915-100	1	TIWB4 Data-Voice Multiplexer — Description
			314-915-110	2	TIWB5 Data-Voice Multiplexer Local Office Bay — Description

Section Number	Issue	Subject	Section Number	Issue	Subject
314-915-300	2	T1WB4 Data-Voice Multiplexer — Initial Installation and Tests	314-920-300	1	Digital 56-KB/S Repeater — Maintenance
Add 314-915-310	1		314-920-500	2	Digital 56-KB/S Repeater — Test Procedures
314-915-310	2	T1WB5 Data-Voice Multiplexer Local Office Bay — Initial Installation and Tests	314-960-100	1	DS-1 Signal Access Unit and Auxiliary Circuits — Description
314-915-501	1	T1WB4 Data-Voice Multiplexer — Trouble-Locating Procedures	314-960-300	2	DS-1 Signal Access Unit and Auxiliary Circuits — Maintenance and Trouble Locating Procedures
314-915-510	1	T1WB5 Data-Voice Multiplexer Local Office Bay — Trouble-Locating Procedures	314-970-100	2	Multiplexer Jack and Connector Panel and Subrate Data Multiplexer Jack and Connector Panel — Description
314-916-100	2	Bay Clock, Power, and Alarms Circuit — Description	314-970-101	2	Central Office — 5-Volt Power Supply Shelf — Description, Maintenance, and Testing
314-916-300	2	Bay Clock, Power, and Alarms Circuit — Maintenance and Troubleshooting	314-983-100	1	T1 Data Multiplexer Performance Monitor — Description
314-916-500	1	Bay Clock, Power, and Alarms Circuit — Tests	314-983-110	1	Subrate Data Multiplexer Performance Monitor — Description
314-917-100	1	Multipoint Junction Units and Auxiliary Circuits — Description	314-983-300	1	T1 Data Multiplexer Performance Monitor — Maintenance and Troubleshooting
314-917-300	1	Multipoint Junction Units and Auxiliary Circuits — Maintenance and Troubleshooting Procedures	314-983-310	1	Subrate Data Multiplexer Performance Monitor — Maintenance and Troubleshooting
314-917-500	1	Multipoint Junction Units and Auxiliary Circuits — Test Procedures	314-983-500	2	T1 Data Multiplexer Performance Monitor — Tests
314-918-100	3	Digital Data Group Terminal — Description	314-983-510	1	Subrate Data Multiplexer Performance Monitor — Tests
314-918-300	2	Digital Data Group Terminal — Troubleshooting and Testing	♥ 314-984-100	1	Digital Transmission Surveillance System — General Description — Digital Data System
314-919-100	2	Subrate Off-Net Extension Arrangements — Description	♥ 314-984-101	2	Digital Transmission Surveillance System — Administrative Procedures
314-919-180	1	Data Auxiliary Set 831A Type — Summarizing Specification	Add 314-984-200	1	
314-919-200	3	Subrate Off-Net Extension Arrangement — Installation and Connections	♥ 314-984-200	1	Digital Transmission Surveillance System — Circuit Pack Installation and Test Procedures
314-919-300	2	Subrate Off-Net Extension Arrangement — Maintenance	♥ 314-984-300	1	Digital Transmission Surveillance System — Central Processor Operation and Data Base Management
314-919-500	2	Subrate Off-Net Extension Arrangement — Test Procedures	♥ 314-984-500	1	Digital Transmission Surveillance System — Overall System Maintenance Requirements
314-920-100	2	Digital 56-KB/S Repeater — Description			