

**NUMERICAL INDEX — DIVISION 103
TRANSMISSION TEST EQUIPMENT**

1. GENERAL

- 1.01** This index provides a listing of documents in Division 103.
- 1.02** This index reverted to Issue 1 in September 1984. Prior to that date there had been 99 issues of the index.
- 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 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.
- 1.05** A club (♣) indicates an item that refers to a manufacturer's manual — providing a number for filing purposes and instructions for ordering the manual.
- 1.06** A heart (♥) indicates an 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.
- 1.07** A spade (♠) indicates an item not on microfiche.
- 1.08** "Add" is the abbreviation for Addendum.

2. LAYERS

- 2.01** This division is arranged in layers as follows:
- 103-0 Indexes and Equipment Test Lists
 - 1 Miscellaneous Test Equipment
 - 2 Voice-Frequency Transmission Measuring Sets, Systems and Associated Equipment
 - 3 Oscillators, Signal Generators, Milliwatt Reference Generators, and Distributing Systems
 - 4 Carrier-Frequency Transmission Measuring Sets, Lightwave and High Capacity Systems and Associated Equipment, Lightwave Test Sets
 - 5 Carrier-Frequency Noise Measuring Sets
 - 6 Crosstalk and Noise Measuring Sets and Associated Equipment
 - 7 Video Test Sets and Associated Equipment
 - 8 Telegraph and Teletypewriter Testing Apparatus and Tools
 - 9 PICTUREPHONE® Service

3. INDEX

Document Number	Issue	Subject
103-0 INDEXES AND EQUIPMENT TEST LISTS		
● ♠ 103-000-000	13	Numerical Index — Division 103 — Transmission Test Equipment
103-001-011	14	Equipment Test List — Transmission Test Equipment

103-1 MISCELLANEOUS TEST EQUIPMENT

103-100 Attenuators

103-100-100 1 5A Attenuator — Description

103-101 Composite Set Bridges

103-101-100 3 1A Composite Set Bridge — Description

Document Number Issue Subject

103-102 Impedance Bridges

103-102-105 1 5A Impedance Bridge — Description

103-102-500 2 Measurements of Impedance Unbalances

103-103 Terminating Networks

103-103-100 2 3A — Description

103-103-101 2 5A and 5B — Description

103-103-500 1 Operation of 3A Terminating Network

103-104 Test Networks

103-104-100 1 4097A Network — Description

103-104-101 1 4097B Network — Description

103-104-110 1 832B Network — Description

103-105 Echo Suppressor Test Sets

103-105-100 2 J68605M (5M) Portable Test Set — Description

103-105-110 3 58-Type — Measuring System (J68658) — Description

103-105-310 3 58-Type — Measuring System (J68658) — Operation

Add 103-105-510 1 58-Type — Measuring System J68658 — Near-End Equipment — Tests and Adjustments

103-105-510 3 58-Type — Measuring System J68658 — Near-End Equipment — Tests and Adjustments

103-105-511 1 58-Type — 108-Type Test Termination — Out-of-Service Test

103-106 Return Loss and Singing Point Test Sets

103-106-100 2 Reflection Attenuator for Making Singing Point Tests — Description

Add 103-106-105 1 J94002D (2D) and J94002E (2E) Singing Point Test Sets — Description

Add 103-106-110 1 J99254C (54C) Return Loss Measuring Set — Description

103-106-110 2 J99254C (54C) Return Loss Measuring Set — Description

103-106-115 3 Western Electric Company Model KS-20501 — Description and Operation

103-107 Voice Frequency Telephone Repeater Test Sets

103-107-100 1 J94002G (2G) Repeater Test Set — Description

103-107-105 2 J98612F (12F) E-Repeater Test Set — Description

AT&T 103-000-000

Document Number	Issue	Subject
103-107-111	1	54A Transmission Measuring Set — Description and Operation
Add 103-107-112	1	
103-107-112	1	54B Test Stand — Description
103-107-120	1	KS-21940 L1 Handset Adapter Use and Application With Range Extender With Gain (REGs)
103-108 2A Toll Test Unit		
103-108-100	1	Description
103-109 1A Artificial Cable Kit		
103-109-100	3	4096-Type Networks
103-110 Pulse Type Measuring Set		
103-110-100	1	Data Pulse Measuring Set — Description
103-110-110	3	J94027A, E, E, P/AR Meter Generators and J94027B P/AR Meter Receiver — Description, Operation, and Maintenance
103-110-111	1	J94027F P/AR Transmitter/Receiver — Description, Operation, and Maintenance
103-111 Delay Measuring Set		
103-111-100	2	Delay Measuring System for Data Circuits — KS-15877 — Transmitter — KS-15878 — Receiver
103-115 Gain and Delay Measuring Sets		
Add 103-115-100	1	
103-115-100	2	25A Voiceband Gain and Delay Measuring Set (J94025A) — Description and Operation
103-115-101	2	25B and 25BR Voiceband Gain and Delay Sets (J94025B and 94025BR) — Description, Operation, and Maintenance
103-115-105	1	26A Wideband Gain and Delay Set (J94026A) — Description, Operation, and Maintenance
103-117 Telemetry Test Equipment		
♣ 103-117-101	1	KS-20937 E-Telemetry Station Test Set System — Description, Operation, and Maintenance
103-120 1A Harmonic Distortion Measuring System		
103-120-100	1	KS-20146, L1 Signal Generator and KS-20147, L1 Distortion Detector — Description
103-125 X-75948 Voiceband Gain and Phase Hit Counter		
103-125-000	1	Description and Operation
103-126 Digital Multimeasuring Systems		
103-126-100	1	KS-21111 Remote Digital Voice Frequency Transmission Measuring Set — Description

Document Number	Issue	Subject
103-126-102	1	KS-21106 Remote Digital Multimeter — Description
103-190 1000-Cycle Machines — KS-5472		
103-190-101	4	Description
103-2 VOICE-FREQUENCY TRANSMISSION MEASURING SETS, SYSTEMS AND ASSOCIATED EQUIPMENT		
103-202 Auxiliary Transmission Measuring Set		
103-202-100	1	Description
103-202-101	1	132A Impedance Adapter — Description
103-204 TTS 4A TMS (Range: 300 to 3500 Cycles Sending — 35 to 15,000 Cycles Receiving)		
103-204-100	3	Instruction Manual
103-207 103-221	1	J94021A (21A) Transmission Measuring Set (Range: 20 to 20,000 Cycles Sending and Receiving)
Add 103-221-100	1	
103-221-100	3	Description
103-221-101	1	Calibration Checking Procedure
103-222 J94022A (22A) Milliwatt Reference Meter (Range: 300 to 3,000 Cycles)		
103-222-100	3	Description
103-222-101	1	36A Auxiliary Attenuator Used on 22A Milliwatt Reference Meter — Description
103-223 23-Type Transmission Measuring Sets		
103-223-100	3	23A and 23D — Description
103-223-101	2	J94023B, C, and CR — Description
103-231 Transmission and Noise Measuring Systems		
103-231-100	2	J94005 (SD-95900-01) — General Description
103-231-101	2	1U Amplifier-Rectifier — (Range 35 to 15,000 Hertz) — Description
103-231-102	2	1W Noise Amplifier-Rectifier With C-Message Weighting — Description
103-231-103	1	Projection Meter, Projector, and Screen — Description and Maintenance
103-231-104	1	KS-20805 — Description
103-231-110	2	Appearances at Voice-Frequency Patching Bays and Packaged N-Carrier Terminals — Data, Air-Ground, and Voice-Circuit Testboards for Private Service Systems and at Similar Locations — Description
103-231-500	3	J94005 (SD-95900-01) — Appearances at Testboards and at Similar Locations — Tests and Adjustments
103-231-510	3	Appearances at Voice-Frequency Patching Bays and Packaged N-Carrier Terminals — Data, Air-Ground, and Voice-Circuit Testboards for Private Service Systems and at Similar Locations — Tests and Adjustments

Document Number	Issue	Subject
103-235 Transmission Measuring and Noise Checking Circuit		
103-235-100	7	Far-End Transmission Measuring and Noise Checking Circuit and Associated 104-Type Test Lines
103-235-300	2	Accuracy and Operational Tests — Far-End (Code 104) Transmission Measuring and Noise Checking Circuits
Add 103-235-500	1	
103-235-500	4	Far-End Transmission Measuring and Noise Checking Equipment and Test Lines Without Test Progress Tone — Tests
103-235-501	4	Far-End Transmission Measuring and Noise Checking Circuit and Test Lines — Employing Test Progress Tone — Equipment Tests
103-240 Control Unit for Loop Around Test Lines		
103-240-500	5	J99329A Control Unit (60A) — Tests and Adjustments
103-245 DATS (Digital Access Timeslot Selector)		
103-245-100	3	J1C140A — Description
103-245-500	2	J1C140A-1 — Maintenance Information
103-250 J94051 ATMS (Automatic Transmission Measuring System)		
103-250-100	2	General Description
103-250-101	5	105-Type Test Lines and Remote Office Test Line (ROTL) Access Circuits — Description
103-250-110	1	51E Director — Used in No. 1 4-Wire ESS AUTOVON Offices — Description
103-250-301	2	Director — Trouble Location
103-250-302	1	Responder — Trouble Location
103-250-501	4	Director Alignment
103-250-502	4	Responder Alignment Using CP101RT 1 Per ED-99959-30
103-250-503	2	Responder Alignment — Using CP101RT Per ED-1C334-31
103-250-504	1	Remote-Office Responder Testing Procedure Using CP101RT per ED-1C334-31
Add 103-250-702	1	
103-250-702	7	105-Type Transmission Test Line Circuits — Build-Out Resistor Assembly Adjustment
103-250-710	1	51E Director — Used in No. 1 4-Wire ESS AUTOVON Offices — Build-Out Resistor Assembly Adjustment
103-251 CAROT (Centralized Automatic Reporting on Trunks)		
103-251-105	1	Processor Controlled Interrogator — General Description
103-251-110	1	J94054 Manually Controlled Interrogator — Description, Operation, and Use

Document Number	Issue	Subject
103-251-111	1	54-Type Manually Controlled Interrogator — Adjustment of Loss in Transmission Paths
Add 103-251-112	1	
103-251-112	4	92A Control Unit — Description and Operation
103-251-113	1	92A Control Unit/Remote Outgoing Trunk (ROGT) Unit — KS-22321, L1 Console — Installation Procedures
103-251-114	1	92A Control Unit — Summarizing Specifications — Common Systems
103-252 52-Type ATMS (Automatic Transmission Measuring System)		
• Add 103-252-100	1	
103-252-100	3	J94052A (52A) Responder — Description and Operation — Common Systems
103-252-101	1	J94052B (52B) Responder Access Panel — Description and Operation
103-252-102	4	J94052C (52C) Responder Alignment Unit — Description and Operation
103-252-103	3	J94052D (52D) Responder — Description and Operation
103-252-104	4	J94056A Mini-Responder — Description, Installation, Operation, and Maintenance
103-252-105	1	J94056B Miniresponder — Description, Installation, Operation, and Maintenance — Advanced Mobile Phone Service (AMPS)
103-252-106	1	FE117 Miniresponder — Description, Installation, Operation, and Maintenance — Remote Switching System (RSS)
103-252-500	3	J94052-Type (52A and 52D) Responder — Maintenance and Testing — Common Systems
103-260 CTMS (Carrier Transmission Maintenance System)		
103-260-100	7	General Description — Carrier Transmission Maintenance System
Add 103-260-101	1	
103-260-101	1	Carrier Transmission Maintenance System — Equipment Description
103-260-300	7	Carrier Transmission Maintenance System — Operating System Detailed Description and Operating Procedures
103-260-301	8	Carrier Transmission Maintenance System — Data Base Management
103-260-305	7	Carrier Transmission Maintenance System — Facility Maintenance Application Programs
103-260-306	3	Carrier Transmission Maintenance System/Trunk and Facilities Maintenance System — Trunk Maintenance Application Programs
103-260-500	5	Carrier Transmission Maintenance System/Trunk and Facilities Maintenance System (CTMS/TFMS) — Maintenance

AT&T 103-000-000

Document Number	Issue	Subject
103-261 J1P012A OTTS (Outgoing Trunk Testing System)		
103-261-100	2	Description and Operation — No. 4A or 4M Crossbar Switching System
103-261-101	1	OTTS/ROTL — Description and Operation
103-261-500	2	No. 4A Toll Switching Systems — SD1P062-01, SD-1P063-01 — Tests
Add 103-261-501	1	
103-261-501	2	Build-Out Pad — Adjustment
103-261-502	1	OTTS/ROTL — Maintenance
103-262 J1P029B and J1P029C CAS (Carrier Alarm Scanner)		
103-262-100	1	Description
103-3 OSCILLATORS, SIGNAL GENERATORS, MILLIWATT REFERENCE GENERATORS, AND DISTRIBUTING SYSTEMS		
103-300 200-Type Oscillators (Hewlett-Packard)		
103-300-100	1	Model 200CD — Instruction Manual
103-300-105	1	Model 200H — Description
103-300-106	1	650A Test Oscillator (Hewlett-Packard Company) — Description, Operation, and Maintenance
103-302 KS-19260 and KS-19353 Oscillators		
103-302-100	2	KS-19260, L6, L7 Oscillator — Description and Operation
103-302-105	1	KS-19353, L1 Oscillator (50 Cycles to 560 Kilo-Cycles) — Description and Operation
103-302-106	2	KS-19353, L5 Oscillator — Description and Operation
103-302-300	1	Western Electric Company KS-19260 Oscillator — Maintenance Considerations
103-305 17A and 17B Oscillators (Range: 500 Cycles to 150 Kilocycles)		
103-305-100	2	Description
103-305-700	1	Requirements and Adjusting Procedures
103-310 J64051A (51A) Oscillator (Range: 2 to 79 Kilocycles)		
103-310-100	1	Description
103-310-101	1	Calibration of — 1 KC 0 KC Control
103-311 J64052A (52A) Oscillator (64, 100, 556, 1056 and 2064 Kilocycles)		
103-311-100	3	Description
103-312 J64053A (53A) Mobile Oscillator (Range: 50 to 3600 Kilocycles)		
103-312-100	3	53A with 25B Oscillator — Description
103-312-101	1	53A with 25A Oscillator — Description

Document Number	Issue	Subject
103-313 J64056A (56A) Oscillator (Range: 50 to 10,000 Kilocycles)		
103-313-100	3	Description
103-314 J64057A (57A) Oscillator (308, 556, 2064, 3096, 7266 and 8320 Kilocycles)		
103-314-100	2	Description
103-318 J64061B (61B) and J64061C (61C) Signal Generators (Range: 60 Cycles to 10 Megacycles)		
Add 103-318-100	1	
103-318-100	3	Description
103-318-500	3	Tests and Maintenance Adjustments
103-319 J64061B (61B) Signal Generator		
103-319-300	1	Periodic Tests and Test Intervals
103-319-501	2	Tests and Maintenance Adjustments
103-319-502	1	Regulated Power Supply Tests and Adjustments
103-319-503	2	Video Signal Generator — Tests and Adjustments
103-319-504	2	Sine Wave Generator — Tests and Adjustments
103-319-505	1	Level Monitor — Tests and Adjustments
103-319-506	1	Electron Tube Tests
103-319-507	1	Trouble Investigation — Voltage and Wave — Form Measurements
103-320 J64061C (61C) Signal Generator		
103-320-300	1	Periodic Tests and Test Intervals
103-320-501	2	Tests and Maintenance Adjustments
103-320-502	1	Regulated Power Supply — Tests and Adjustments
103-320-503	2	Video Signal Generator — Tests and Adjustments
Add 103-320-504	1	
103-320-504	2	Sine Wave Generator and Monoburst Adapter — Tests and Adjustments
103-320-505	1	Level Monitor — Tests and Adjustments
103-320-506	1	Electron Tube Tests
103-320-507	1	Trouble Investigation — Voltage and Wave — Form Measurements
103-321 Hewlett-Packard H01-653A (653A) Oscillator		
103-321-000	1	Description and Operation

Document Number	Issue	Subject
103-325 J94071A (71A) Milliwatt Reference Generator (1000 Cycles)		
103-325-100	2	Description
103-325-500	3	Output Adjustment at Maintenance Outlet Jack
103-326 J94071B (71B) Milliwatt Reference Generator		
103-326-100	2	Description
103-327 J94071 Milliwatt Reference Generator		
103-327-100	6	J94071C (71C) and J94071F (71F) Milliwatt Reference Generators; J94071G (71G) Precision Tone Generator; J94071D (71D), J94071E (71E), and J94071H (71H) Distributing Network Panels; and J94071J (71J) Access Panel — Description
103-327-180	2	J94071C (71C), J94071F (71F), and J94071G (71G) Milliwatt Reference Generators; J94071D (71D), J94071E (71E), and J94071H (71H) Distributing Network Panels; and J94071J (71J) Access Panel — Engineering Application
103-327-300	1	Milliwatt Record Book — General Description and Maintenance Procedures
103-327-500	5	J94071C (71C) and J94071F (71F) Milliwatt Reference Generators — J94071G (71G) Precision Tone Generator — Output Test and Calibration
103-335 Milliwatt Distributing Systems and Test Lines		
103-335-300	3	Initial Test Requirements and Periodic Tests
103-335-500	5	General Information
103-335-501	4	Adjustment of Distributing Resistors to Compensate for Office Wiring Loss in 600-ohm Jack-Ended Outlets and Transmission Test Lines
103-335-502	4	Adjustment of Distributing Resistors to Compensate for Office Wiring Loss in 900-ohm Jack-Ended Outlets and Transmission Test Lines
103-335-503	5	Check of Idle Circuit Terminations
103-335-504	5	No. 1 Crossbar — Check of Milliwatt Test Lines Reached by 4- or 7-Digit Numbers
103-335-505	6	No. 5 Crossbar — Check of Transmission Test Lines Reached by 4- or 7-Digit Numbers
103-335-506	5	Panel and Step-by-Step — Check of Transmission Test Lines Reached by 4- or 7-Digit Numbers
103-335-507	5	No. 5 Crossbar — Check of Transmission Test Lines Reached by 3-Digit Codes
103-335-508	5	Crossbar Tandem or SXS Intertoll or Tandem Check of Transmission Test Lines Reached by 3-Digit Codes

Document Number	Issue	Subject
103-335-509	4	No. 4-Type Crossbar — Check of Transmission Test Lines Reached by 3-Digit Codes
103-335-510	5	Check of Milliwatt Outlets at Manual Switchboards
103-335-512	5	Check of Jack-Ended Outlets
103-335-513	4	Adjustment of KS-16744, List 1 Distributing Networks to Compensate for Office Wiring Loss in 600- and 900-Ohm Jack-Ended Outlets and Transmission Test Lines
103-335-514	3	4-Wire No. 5 Crossbar Offices — Check of Transmission Test Lines
103-335-515	4	2-Wire and HILO 4-Wire No. 1 ESS Offices — Alignment and Check of Transmission Test Lines
103-335-516	2	4-Wire No. 1 ESS Offices — Check of Transmission Test Lines
103-335-517	2	Automatic Intercept System — Check of Transmission Test Lines
103-335-518	3	2-Wire No. 2 ESS Offices — Check of Transmission Test Lines
103-336 Wideband Test Termination		
103-336-501	1	100-Type for PICTUREPHONE® Check and Adjustment of 1000-Hz Output and Verification of Operating Features
103-336-502	1	102-Type for PICTUREPHONE Check and Adjustment of 1000-Hz Output and Verification of Operating Features
103-336-503	1	Wideband Remote Switch Terminating Test Line — Check and Adjustment of 1000-Hz — Output and Verification of Operating Procedures
103-337 Common Systems — Test Termination Circuit, SD-96540-01		
103-337-100	3	Description, Operation and Maintenance
103-341 J94002A (2A) and J94002C (2C) Sending Panels		
Add 103-341-100	1	
103-341-100	2	Description
103-341-500	3	J94002A (2A) Sending Panels — Adjustment of Temperature Compensation for the KS-5472-01 Machine
103-341-501	3	Chart 2: Setting the Output Adjusting Circuit of the 2A Sending Panel
103-343 J94024 (24B and 24C) Loop Checker Generators		
103-343-101	3	Description
103-343-501	3	Tests
103-343-701	3	Adjusting Procedures

AT&T 103-000-000

Document Number	Issue	Subject	Document Number	Issue	Subject
103-344 J94024C (24C) Loop Checker Generator			103-403-300	2	Operation
103-344-501	3	Tests	103-404 Sierra Model 3054A (1 kHz to 33.5 MHz)		
103-344-701	3	Adjusting Procedures	103-404-000	1	Description and Operation
103-345 201A and 201B Noise Generator (20 to 20,000 Cycles)			103-405 J68827A (27A) Sending and J68827B (27B) Receiving Consoles (Range: 50 to 10,000 Kilocycles)		
103-345-100	2	Description, Operation and Maintenance	103-405-100	4	Description
103-350 Wideband Oscillator			103-405-300	2	Operation
103-350-100	1	Hewlett-Packard Model 209A Modified for PICTUREPHONE® Use — Description, Operation and Maintenance	103-406 Wandel-Goltermann Level Generator AT462 and Selective Level Meter AT463		
103-4 CARRIER-FREQUENCY TRANSMISSION MEASURING SETS, LIGHTWAVE AND HIGH CAPACITY SYSTEMS AND ASSOCIATED EQUIPMENT, LIGHTWAVE TEST SETS			103-406-000	3	(6 kHz to 18.6 MHz) — Description and Operation
103-400 Carrier-Frequency Voltmeters (Sierra Electronic Corporation)			103-407 J68858AT (58AT) Pilot Filter Set		
103-400-101	1	KS-15538, List 1 (Range: 20 to 600 Kilocycles) — Description	Add 103-407-101	1	
103-400-102	1	KS-15538, List 2 (Range: 20 to 500 Kilocycles) — Description	103-407-101	4	Description
103-400-103	1	KS-15538, List 3 (Range: 30 to 500 Kilocycles) — Description	103-408 J64030A (30A) Transmission Measuring Set (Range: Up to 150 Kilocycles)		
Add 103-400-104	1		Add 103-408-100	1	
103-400-104	1	KS-15538, List 4 (Range: 3 to 620 Kilocycles) — Description	103-408-100	2	Description
Add 103-400-105	1		103-409 J64031A (31A) and J64031B (31B) Transmission Measuring Sets (Range: 1 to 150 Kilocycles)		
103-400-105	1	KS-15538, List 5 (Range: 2 to 350 Kilocycles) — Description	103-409-100	2	Description
103-400-106	1	KS-15538, 15A Frequency Selective Voltmeter (Range: 2 to 350 Kilocycles) — Description	103-410 J64032A (32A) Transmission Measuring Set (Range: 150 Cycles to 150 Kilocycles)		
103-400-107	1	KS-15538, 16 Frequency Selective Voltmeter (Range: 2 to 350 kHz) — Description and Operation — (Dranetz Engineering Laboratories)	103-410-100	2	Description
103-401 Wandel-Goltermann Transmission Test Set (10 kHz to 36 MHz)			103-411 J64033A (33A) Transmission Measuring Set (Range: 60 to 3400 Kilocycles)		
Add 103-401-100	1		103-411-100	4	Description
103-401-100	2	Description	103-412 J64034A (34A) Transmission Measuring Set (Range: 35 Cycles to 3.5 Megacycles)		
103-401-300	2	Operation	103-412-000	1	Description, Operation, and Maintenance
103-402 Portable Oscillator and Selective Analyzer 10 KC to 17 MC (Siemens-Halske)			103-413 J64035A (35A) Transmission Measuring Set (Range: 30 Cycles to 10 Megacycles)		
103-402-100	1	Description	103-413-100	1	Description
103-402-300	2	Operating Methods	103-414 J64037A (37A) and J64037B (37B) Transmission Measuring Sets (Range: 50 to 11,000 Kilocycles)		
103-403 Sierra Portable Signal Generator (Model 351A) and Frequency Selective Voltmeter (Model 128A) 10 kHz to 15 MHz			103-414-100	2	Description 37A and 37B Transmission Measuring Sets and J64001AM Power Supply
103-403-100	1	Description	103-415 J64038A (38A) Transmission Measuring Set (Range: 100 Cycles to 10 Megacycles)		
			103-415-100	2	Description
			103-415-300	1	Periodic Tests and Test Intervals
			103-415-500	1	Tests and Adjustments — General

Document Number	Issue	Subject	Document Number	Issue	Subject
103-415-501	1	Regulated Power Supply Tests	103-424 J64049A (49A) L-Multiplex Measuring System		
103-415-502	1	Frequency Check of 308 KC Oscillator	Add 103-424-100	1	
103-415-503	1	Calibration Control Check	103-424-100	2	Description
103-415-504	2	Check of 0.5 DB Scale	Add 103-424-300	2	
103-415-505	1	Protection Pad Check	103-424-300	1	Operation and Maintenance
103-415-506	1	Check of Amplifier Peaking Circuit	103-425 J64072A (72A) Frequency Meter (Range: 100 to 4,000 Cycles and 10 Cycles to 40 Kilocycles)		
103-415-507	1	Automatic Gain Control Circuit Test	103-425-100	2	Description
103-415-508	1	Check of Balance Adjustments	103-427 J64001R (1R) and J64001AC (1AC) Tube Test Set		
103-415-509	1	Check of 308 KC Rejection Circuits	103-427-100	2	Description
103-415-510	1	Frequency Synchronization Check	103-428 J64001AR (1AR) Patch Cord Test Set		
103-415-511	1	Check of 75-Ohm Frequency Characteristic	Add 103-428-100	1	
103-415-512	1	Check of 124-Ohm Frequency Characteristic	103-428-100	1	Description
103-415-513	1	Electron Tube Tests	103-428-101	1	General Information — Continuity and Short Tests
103-415-514	1	Trouble Investigation	Add 103-428-102	1	
103-416 Siemens Portable 100-MHz Transmission Measuring Set (100 kHz to 100 MHz)			103-428-102	1	Continuity Tests (Coaxial Patch Cords or Plugs)
103-416-000	1	Description and Operation	103-428-103	1	Continuity Tests — Two Conductor Cords With 379A Plugs
103-416-100	1	Selective Level Meter D2073B — Description and Operation	103-428-104	1	Continuity Tests — Two Conductor Cords With KS-14323 Plugs
103-417 Siemens Transmission Measuring Sets			103-428-105	2	Short Tests
103-417-000	1	Siemens Model K1023 (10 kHz to 25 MHz) — Description and Operation	103-429 J94002AA (2AA) Milliwatt Reference Set		
103-417-100	1	Siemens Model K1073 (100 kHz to 100 MHz) — Description and Operation	103-429-100	3	Description
103-418 Wandel-Goltermann Selective Level Meter AT-278			103-430 J94070A (70A) Spectrum Generator (Range: 12 to 264 Kilocycles)		
103-418-000	1	Description and Operation	103-430-100	2	Description
103-419 Wandel-Goltermann Transmission Measuring Systems — PSM-7			103-431 KS-15872, List 1 Spectrum Analyzer (Range: 5 to 300 Kilocycles)		
103-419-000	1	Description, Operation, and Maintenance	103-431-100	1	Description
103-420 Siemens Model 2006 (10 kHz to 17 MHz)			103-431-300	1	Operation
103-420-000	1	Description and Operation	103-432 J64090 (90-Type) Carrier Frequency Test Equipment		
103-421 J64044A (44A) Transmission Measuring System (Range: 50 to 3500 Kilocycles)			Description		
103-421-100	1	Description	103-432-100	2	General
103-422 Wandel-Goltermann Milliwatt Test Set EPM-1			103-432-101	2	J64090A (90A) Oscillator
103-422-000	1	Description, Operation, and Maintenance	103-432-102	2	Description, Operation, and Maintenance — J64090B (90B) Selective Detector
103-423 Hewlett-Packard Selective Level Measuring Set 3745B			103-432-103	2	J64090C (90C) Console
103-423-102	1	Description and Operation	103-432-104	3	Description, Operation, and Maintenance — J64090D (90D) Level Control
			103-432-105	2	J64090E (90E) TMS

Document Number	Issue	Subject
103-432-106	2	Description, Operation, and Maintenance — J64090F (90F) Digital Control Unit
103-432-107	2	Description, Operation, and Maintenance — J64090G (90G) Oscillator
103-432-108	2	Description, Operation, and Maintenance — J64090H (90H) Selective Detector
103-432-109	1	Description, Operation, and Maintenance — J64090J (90J) Fixed Frequency Selector
103-432-120	2	J64091 DP (91DP) and J64091GP (91GP)
103-432-121	2	J68958A Control Unit — Description, Operation, and Maintenance

Operation and Maintenance

103-432-300	2	General
103-432-800	2	Service and Return Procedures

103-433 J64074A (74A) Wideband Power Meter

103-433-000	3	Description, Operation, and Maintenance
-------------	---	---

103-434 J64092A CTMS (Carrier Transmission Maintenance System)

103-434-110	1	J64092B Programming Console — General Description
103-434-310	2	J64092B Programming Console — General Operation
103-434-510	1	J64092B Programming Console — Maintenance

103-435/441 L1 Carrier Test Sets**103-435 2A Pilot Indicator**

103-435-100	3	Description
-------------	---	-------------

103-436 Switching Section Phase Comparison Set

103-436-100	1	Description
-------------	---	-------------

103-437 J68825A (25A) Repeater Activity Test Set

103-437-100	2	Description
-------------	---	-------------

103-438 97A Test Set

103-438-100	3	Description
-------------	---	-------------

103-439 6077A Test Set

103-439-100	1	Description
-------------	---	-------------

103-440 J68831A (31A) Visual Transmission Measuring Set

103-440-100	1	General Considerations
103-440-101	1	Description
103-440-501	1	Calibration and Operation
103-440-502	1	Maintenance

Document Number	Issue	Subject
-----------------	-------	---------

103-440-503	1	Trouble Location
-------------	---	------------------

103-441 D178980 Transmission Measuring Set

Add 103-441-100	1	
103-441-100	3	Description

103-442 LMX-2 Carrier Terminal Test Fixtures

103-442-100	1	Miscellaneous Test Fixtures
103-442-101	2	Range Alignment Termination
103-442-102	1	ED-51318-30 Portable 231-Type Amplifier — Description

103-449/455 L3 Carrier System Test Sets**103-450 J64007A (7A) Pilot Indicator**

103-450-100	3	Description
-------------	---	-------------

103-451 J64001AL (1AL) Power Test Set

103-451-100	2	Description
-------------	---	-------------

103-452 J68839A (39A) and J68839B (39B) Thermistor Control Sets

103-452-100	3	Description
-------------	---	-------------

103-453 J68837A (37A) and J68837C (37C) Cosine Equalizer Adjustment Sets

103-453-100	3	General Considerations
103-453-101	3	Description
103-453-500	3	Calibration and Operation
Add 103-453-501	1	
103-453-501	3	Maintenance

103-454 J68837B (37B) Cosine Equalizer Adjustment Set — Portable Receiver

103-454-000	3	J68837B and J68837D — Description and Operation
-------------	---	---

103-455 ED-51064-30 Pilot Hit Detector (L4 Carrier)

103-455-000	1	Description, Operation, and Maintenance
-------------	---	---

103-456 J68898A (98A) Pilot Frequency Measuring Set, Lists 1 and 2 (L4 Carrier)

103-456-000	2	Description, Operation, and Maintenance
-------------	---	---

103-457 J68899A Main Station Repeater Test Set (L4 Carrier)

Add 103-457-000	1	
103-457-000	2	Description, Operation, and Maintenance

103-458 Repeater Test and Maintenance Stand (L4 Carrier)

103-458-000	2	J68906A — Description, Operation, and Maintenance
103-458-100	1	J68906B — Description, Operation, and Maintenance

Document Number	Issue	Subject
103-460 Line Equipment Test Stand J68923A and Warm-Up Rack ED-51487 (L5 Carrier)		
103-460-000	2	Description, Operation and Maintenance
103-467/485 N, O and ON Carrier System Test Equipment and Test Sets		
103-467 J98705M (5M) Channel Unit Test Stand		
103-467-100	2	Description
103-468 Carrier Failure Indicator		
103-468-100	1	Description
103-469 KS-21697 HIN Test Set		
103-469-100	1	Description, Operation, and Maintenance
103-471 J94002N (2N) Group Unit Switching Set		
103-471-100	3	Description
103-472 J94002M (2M) Switching Set for N1 and ON Repeaters and N2 Repeaters with N2/N1 Adapters		
103-472-100	4	Description and Maintenance
103-473 J98703BD (3BD) Switching Set for N1A Repeaters and N2 Repeaters in N2/N1A Adapters		
103-473-100	2	Description and Maintenance
103-474 J94002J (2J) Repeater Test Set		
103-474-100	2	Description
103-475 J94002K (2K) Tube Test Set		
103-475-100	3	Description, Operation and Maintenance
103-476 J94002P (2P) Tube Test Set		
103-476-100	2	Description
103-477 J98703AF (3AF) Deviation Regulator Test Set		
103-477-100	1	Description
103-478 N Line Test Sets — Description and Operation		
Add 103-478-100	1	
103-478-100	2	KS-19750 Deviation Test Set
103-478-101	1	Sierra Model 322A Carrier Generator
103-480 N2 Switching Sets		
103-480-100	2	J99272U — Description
103-480-101	1	J99321S — Description
Add 103-480-500	1	
103-480-500	3	J99272U — Maintenance
Add 103-480-501	1	
103-480-501	3	J99321S — Maintenance

Document Number	Issue	Subject
103-481 N2 Terminal Test Stands		
Add 103-481-100	1	
103-481-100	2	(J99272W) — Description
103-481-101	1	J99272AH — Description
103-481-500	2	(J99272W) — Maintenance
103-481-501	1	J99272AH — Maintenance
103-483 N3 Switching Set		
103-483-100	1	Description
103-483-501	1	Maintenance
103-484 N3 Terminal Test Stand		
103-484-100	1	Description
103-484-501	1	Maintenance
103-486/487 T3, T4M, and FT3 Systems — Test Equipment		
103-486 Transmission Facilities and Lightwave Test Sets		
103-486-100	1	Digital Transmission Systems — J98721F Regenerator Test Set — Description, Operation, and Maintenance
103-486-101	1	J98721E (21E) Fault Locating Test Set — Description, Operation, and Maintenance
103-486-102	2	J98721H (21H) Portable Violation Monitoring — Test Set — Description, Operation, and Maintenance
103-486-103	1	Digital Transmission Systems — J98721G Transmission Test Set — Description, Operation, and Maintenance
103-486-104	1	Digital Transmission Systems J98721J Portable Signal Generator — Description, Operation, and Maintenance
103-486-105	1	Nickel-Cadmium Battery Charger KS-21797, L1 — Description, Operation, and Maintenance — Digital Transmission Systems
103-486-111	2	FT3 Line Test Set (KS-22264, L1) — Description, Operation, and Maintenance — FT3 Lightwave Digital Transmission System — Transmission Test Equipment
103-486-112	2	FT3C Test Unit KS-22670, List () — Description, Operation, and Maintenance — FT3C Lightwave Digital Transmission System
103-486-113	2	FT3C Portable Violation Monitor (KS-22671, L1) Description, Operation, and Maintenance — FT3C Lightwave Digital Transmission System
103-486-114	2	190A Optical Loss Test Set — Description, Operation, and Maintenance
103-486-115	2	Multimode Optical Loss Test Set (KS-22820) — Description, Operation, and Maintenance

Document Number	Issue	Subject
103-486-119	1	FTX-180/FT3C Test Unit KS-23128, List 1 — Description, Operation, and Maintenance — FT3C/FTX-180 Lightwave Digital Transmission System
103-486-120	2	FTX-180/FT3C Portable Violation Monitor (KS-23129, L3) — Description, Operation, and Maintenance — FT3C/FTX-180 Lightwave Digital Transmission System

103-487 Multiplex Facilities

103-487-101	1	DS3 Error Rate Test Set (KS-21366, L2 and KS-21424, L2) — Description and Operation
-------------	---	---

103-488 1A-RDS Signal Monitor Test Set

103-488-100	1	Description, Operation, and Maintenance
103-488-105	1	J68435AH Digital Signal Monitor Test Set — Description, Operation, and Maintenance

103-490 T1 Carrier — Test Equipment and Test Sets

103-490-100	1	J98710G Error Detecting Set — Description, Operation, and Maintenance
103-490-101	1	J98710G List 2 Error Detecting Set — Description, Operation, and Maintenance
103-491-100	2	J98710F, List 1 and J98710F, List 2 Fault Locating Sets — Description, Operation, and Maintenance
103-492-100	4	J98710H Repeater Test Set — Description and Maintenance
103-493-100	4	Digital Transmission Systems — 113A Test Set — Description, Operation, and Maintenance
103-493-101	3	Digital Transmission Systems — 113B Test Set — Description, Operation, and Maintenance
103-493-102	1	Sierra 316A — T-1 Line Repeater Test Set
103-493-103	2	Digital Transmission Systems — J98710P T1 Line Error Detector — Description, Operation, and Maintenance
103-493-104	2	Digital Transmission Systems — J98710R T1 Carrier Quasi-Random Signal Source — Description
103-493-105	1	Digital Transmission Systems — Biddle 110A Cable Test Set — Description, Calibration, and Maintenance
103-493-106	1	Digital Transmission Systems — Northeast Electronics Model 7002T1 — Repeater/Section Test Set
103-493-107	1	Digital Transmission Systems — T1 Line Monitor — Description and Tests
103-493-108	1	107A Power Unit Test Set Description and Maintenance

Document Number	Issue	Subject
103-493-109	3	Digital Transmission Systems — KS-20775, L1 and L2A Error Rate Test Sets — Description and Operation
103-493-110	1	Digital Transmission Systems — Bowmar Model 271B — Error Rate Test Set
103-493-111	1	Digital Transmission Systems — Northeast Electronics Model 7031 — T1 Error Rate Monitor
103-493-115	1	107B Power Unit — Description and Maintenance
103-493-120	2	DS1/DS1C/DS2 Error Rate Test Set (KS-22331, L1 and KS-22332, L1) — Description, Operation, and Maintenance
103-494-100	2	J98725AC Office Bipolar-Violation Detector — Description and Maintenance
103-494-101	1	J98725AB TIC/T1 Manhole Bipolar Violation Detector — Description and Maintenance
103-494-103	3	J98725AE T1C Line Repeater Test Set — Description and Maintenance
103-494-104	3	J98725AA Pair Loss Test Set — Description, Operation, and Maintenance
103-494-105	3	T1C/T1 Quasi-Random Signal Source (QRSS) — Description, Operation, and Maintenance
103-494-106	1	J98725AD T1C/T1 Fault-Locating Test Set — Description and Maintenance
103-494-107	3	KS-22424 T1D Test Set — (Fault Locating and Repeater) — Description and Maintenance
103-494-108	3	KS-22423 T1D Test Set (Manhole Violation Detector) — Description and Maintenance
103-494-109	1	J98725AJ Fault Line Power Module — Description — Digital Transmission Systems
103-494-111	2	J99403TA Transponder — Description and Operation

103-495 T2 Carrier — Test Equipment and Test Sets

103-495-100	4	17L Bipolar Violation Detector — Description and Operation
-------------	---	--

103-496 Fault Locating Set

103-496-100	1	
103-496-100	3	17J — Description and Operation — Digital Transmission Systems

103-497 Regenerator Test Set

103-497-100	4	J98717M Regenerator Test Set — Description, Operation, and Maintenance
-------------	---	--

Document Number	Issue	Subject
103-498 Pair Measuring Set		
103-498-100	3	T2 Digital Line — 17K — Description and Operation
103-5 CARRIER-FREQUENCY NOISE MEASURING SETS		
103-500 Carrier-Frequency Noise Measuring Set		
103-500-100	2	J94007A (7A) (Range: 10 to 552 kHz) — Description
103-500-101	1	N Line Noise Sectionalization Set — Band Rejection Filter Unit J98703MC — Description
103-6 CROSSTALK AND NOISE MEASURING SETS AND ASSOCIATED EQUIPMENT		
103-611 No. 3-Type Noise Measuring Sets		
Add 103-611-100	1	
103-611-100	4	J94003A and B
103-611-101	2	J94003C (3C)
103-611-102	2	J94003 (3CR)
103-620 Voiceband Impulse Counters — Single Level		
Add 103-620-100	1	
103-620-100	5	J94006A (6A) and J94006E (6E) Impulse Counters — Description, Operation, and Maintenance
103-620-101	2	6H and 6HR Impulse Counters (J94006H and J94006HR) — Description, Operation, and Maintenance
103-626 Voiceband Noise Measuring Sets — Multilevel		
103-626-100	3	6F and 6FR Voiceband Noise Measuring Sets (J94006F and J94006FR) — Description, Operation, and Maintenance
103-627 Wideband Noise Measuring Set		
103-627-100	1	J94006G (6G) Noise Measuring Set — Description, Operation, and Maintenance
103-627-101	1	(J94006G) — Modified for PICTUREPHONE Use — Description, Operation, and Maintenance
103-628 Portable Pilot/Noise Monitor (1A-RDS)		
103-628-100	3	J68448A-90 — Description, Operation, and Maintenance
103-635 4A Frequency Analyzer		
103-635-100	1	Description
103-642 Noise Influence Coupler		
103-642-100	1	Description

Document Number	Issue	Subject
103-7 VIDEO TEST SETS AND ASSOCIATED EQUIPMENT		
103-700 Impedance Matching Pads		
103-700-100	2	Description
103-701 197A and 197B Repeating Coils		
103-701-100	5	Description
103-702 J64001AP (1AP) Transmission Comparing Set		
103-702-100	1	Description and Operation
103-703 J64047A (47A) Television Transmission Measuring System		
103-703-100	2	Description
103-703-500	3	Tests and Maintenance Adjustments
103-704 J64047B (47B) Sending Unit		
103-704-300	1	Periodic Tests and Test Intervals
103-704-500	2	Tests and Maintenance Adjustments — General
103-704-501	2	Low Frequency Signal Generator Output and Frequency Measurements
103-704-502	2	High Frequency Signal Generator — Output and Frequency Measurements
103-704-503	1	Sync Pulse Level and Polarity Tests
103-704-504	1	Power Supply Regulation
103-704-505	1	Check of 124-Ohm Balanced Output
103-704-506	2	Check of Output Controls
103-704-507	1	Electron Tube Tests
103-704-508	1	Trouble Investigation — Voltage and Waveform Measurements
103-704-509	2	Low Frequency Signal Generator-Oscillator and Sync Pulse Adjustments
103-704-510	2	High Frequency Signal Generator — Oscillator and Buffer — Amplifier Adjustments
103-705 J64047C (47C) Receiving Unit		
103-705-300	1	Periodic Tests and Test Intervals
103-705-500	2	Tests and Maintenance Adjustments
103-705-501	1	Sensitivity Check
103-705-502	1	Check of Sweep Phase Amplitude and Control
103-705-503	1	Check of 124-Ohm Balanced Input
103-705-504	1	Electron Tube Tests
103-705-505	1	Trouble Investigation — Voltage and Waveform Measurements

Document Number	Issue	Subject
103-705-506	1	Check and Adjustment of Calibrating Signal
103-705-507	1	Signal and Reference Amplifier Adjustments
103-705-508	2	Amplifier Gain
103-710 J68362 Video Visual Test Set		
103-710-100	1	Description
103-710-101	2	Simplified Receiver — Description
103-710-300	1	Maintenance Intervals
103-710-500	2	General
103-710-501	2	Calibration and Operation
103-710-502	1	Alignment and Adjustment
103-715 J44103A (3A) Video Monitoring Probe		
103-715-100	1	Description, Operation and Maintenance
103-720 KS-5799 Video Monitor		
103-720-100	3	Description
103-720-500	1	Tests and Adjustments
103-721 KS-15654 List 1 Video Monitor		
103-721-100	1	Description
103-721-500	2	Tests and Adjustments
103-722 KS-15654 List 2 Video Monitor		
103-722-100	2	Description
103-722-500	2	Tests and Adjustments
103-734 J64005A (5A) Noise Weighting Set		
103-734-100	2	Description, Operation, and Maintenance
103-734-801	1	Modification for Single Color and Monochrome Weighting Network
103-735 J64009A (9A) Video Distortion Meter (Range 15 to 300 Kilocycles)		
103-735-100	1	Description, Operation and Maintenance
103-736 36-Type Video Visual Gain and Delay Distortion Measuring Set (Range: 12 to 330 kc)		
Add 103-736-100	1	
103-736-100	1	J64036A (36A) — Description
103-736-150	1	J64036B (36B) — Description
103-738 J64070A (70A) and J64070B (70B) Power Meters (Range: Dc to 200 Megacycles)		
103-738-100	5	Description
103-745 KS-15512 Video Frequency Oscilloscope		
103-745-100	2	List 1, 2 and 3 — Description

Document Number	Issue	Subject
103-745-101	3	List 4 — Description
103-745-102	3	List 5 — Description
103-745-500	2	List 1, 2 and 3 — Tests and Adjustments
103-745-501	2	List 4 — Tests and Adjustments
103-745-502	2	List 5 — Tests and Adjustments

103-746 Conrac CYB17 Color Monitor

♣ 103-746-000	1	Description, Operation and Maintenance
---------------	---	--

103-747 KS-19833, L1 Picture Monitor

♣ 103-747-000	1	Instruction Manual
---------------	---	--------------------

103-748 KS-19763, L1 Oscilloscope

♣ 103-748-000	2	Video Test Sets
103-748-801	2	Waveform Oscilloscope — Description, Operation, and Maintenance

103-8 TELEGRAPH AND TELETYPEWRITER TESTING APPARATUS AND TOOLS**103-800 1A and 1B Teletypewriter Test Sets**

103-800-100	1	Description and Principles of Operation
103-800-400	1	Wiring Diagram
103-800-500	1	Test Methods
103-800-700	1	Requirements and Adjustments
103-800-701	1	Lubrication
103-800-800	1	Parts

103-802 6A Distributor

103-802-100	1	Description
-------------	---	-------------

103-804 100A Teletypewriter Test Distributor

103-804-100	2	Description
103-804-400	1	Wiring Diagram

103-806 110-Type Multiple Sender for Teletypewriter Test Signals

103-806-100	1	Description — 110A-1
103-806-101	2	Description — 110-B-1
103-806-102	2	Description — 110-C-1
103-806-104	2	Description and Operation — 110E1
103-806-500	1	Operation — 110-A-1

103-808 X-75041 Telegraph Transmission Measuring Set

103-808-100	2	Description
-------------	---	-------------

Document Number	Issue	Subject
103-810 117-Type Telegraph Stability Test Sets		
103-810-100	3	Description, Operation and Maintenance
103-811 118-Type Telegraph Transmission Measuring Sets		
103-811-000	1	Translating, Recording, Reporting and Interpreting
103-811-100	2	Principles
103-811-101	1	Description — 118A1 and B1
103-811-102	1	Description — 118C1
103-811-103	3	Description — 118C3 and 118C4
103-811-503	2	Operation — 118C3 and 118C4
103-812 119-Type Telegraph Signal Sets		
103-812-100	1	Description — 119A Biasing Set
103-812-101	1	Description — 119B Biasing Set
103-812-102	2	Description — 119C1 Distorting Set
103-812-500	3	Operation — 119A Biasing Set
103-812-501	1	Operation — 119B Biasing Set
103-813 911-Type Data Test Sets		
Add 103-813-100	1	
103-813-100	3	A, B, and C — Description, Operation, and Maintenance
103-813-101	1	911D Type Distortion Measuring Set — (J79911D)
103-813-102	1	911E Distortion Measuring Set — Description and Operation
103-813-103	2	Distortion Measuring Set 911F — Description and Operation
103-813-104	2	911G Test Sentence Generator — Description and Operation
103-813-105	1	Data Signal Distorting Set 911J — Description and Operation
103-813-106	1	Exclusion Unit 911K-Type — Description and Operation
103-813-107	1	911M Multiclock Unit — Description and Operation
103-813-110	1	911NA — Description and Operation
103-813-111	1	911P EIA Test Adapter — Description and Operation
103-813-502	1	911E Distortion Measuring Set — Tests
103-813-503	3	911F Distortion Measuring Set — Tests
103-813-504	2	911G Test Sentence Generator — Tests
103-813-505	1	911J Data Signal Distorting Set — Tests

Document Number	Issue	Subject
103-813-510	1	911NA — Maintenance and Tests
103-814 918-Type Teletypewriter Speed and Code Converter		
103-814-100	1	918A — Description and Operation
103-814-101	1	918B — Description and Operation
103-814-301	1	918B — Maintenance
103-814-501	1	918B — Test Procedures
103-815 Bias Measuring Arrangement for Telegraph Boards		
103-815-100	1	Description
103-817 Hit Indicators and Suppressors		
103-817-100	2	Description — 162A1 and 162B1 Hit Indicators
103-817-101	1	Description — Neon Plug-Type Hit Indicator
103-817-102	2	Description — 108A1 Hit Suppressor Unit
103-817-500	2	Operation — 162A1 and 162B1 Hit Indicators
103-818 SC1 Signal Condition Indicators		
103-818-100	1	Teletypewriter Signal Condition Indicator — Description
103-818-101	1	Stelma Signal Condition Indicator SC1-6
103-818-200	1	Teletypewriter Signal Condition Indicator — Installation
103-819 Signal Quality Monitor		
103-819-100	2	Data Quality Monitors — DQM-8 Series — Description, Installation, and Maintenance
103-820 160A1 Carrier Telegraph Test Set		
103-820-100	2	Description
103-821 161A Telegraph Station Test Set		
103-821-100	2	Description
103-822 163E1 Orientation Testing Indicator		
103-822-100	1	Description
103-822-500	2	Operation
103-823 164-Type Telegraph Transmission Measuring Set		
103-823-100	4	164C1 — Description and Principles of Operation
103-823-101	2	164C2, 164C3, and 164C4 — Description and Principles of Operation
103-823-102	1	Routine Calibration — 164C2
103-823-103	1	Description — 164C3 and C4
103-823-500	1	164C1 — Calibration and Test Methods

AT&T 103-000-000

Document Number	Issue	Subject
103-823-501	1	164C2, 164C3, and 164C4 — Calibration and Test Methods
103-824 165-Type Test Sets		
103-824-100	2	Description — 165A1 and 165A2 for Testing 143A1 and 143A2 Regenerative Repeaters
103-824-101	4	165B1 for Testing 144-Type Coupling Units and 96A1 Electronic Loop Repeater — Description
103-824-102	7	165C1 for Testing 43A1 VFCT System — Channel Terminals — Description and Operation
Add 103-824-501	2	
103-824-501	5	165B1 for Testing 144-Type Coupling Units and 96A1 Electronic Loop Repeater — Operation
103-824-502	4	165C1 for Testing 43A1 VFCT System — Channel Terminals — Test Procedures Reference
103-825 Telegraph Carrier Test Set		
103-825-100	2	KS-19935 Telegraph Carrier Test Set
103-830 The STATC-2 TWX Station Automatic Test Cord		
103-830-100	2	Description
103-831 TWX Station Automatic Data Test Line Circuit		
103-831-100	1	Description
103-831-500	1	Test Procedures
103-832 6A Automatic Station Test Circuit For Private Line Telegraph		
103-832-100	1	Description of Equipment
103-832-500	1	Method of Operation
103-835 Telegraph Signal Distorting Sets		
103-835-100	1	Description — 1H

Document Number	Issue	Subject
103-835-101	1	Description — 1N
103-838 Programming Unit — Teletypewriter Test Signals		
103-838-100	1	General Information
103-838-101	1	Description
103-838-102	1	Putts-14 — Figures and References

103-9 PICTUREPHONE® SERVICE

103-900 Wideband Mobile Test Bay

♥	103-900-100	1	X-76086 — Description
♥	103-900-101	1	X-76097 — Description
♥	103-900-500	1	X-76086 — Tests
♥	103-900-800	1	X76086 — Removal and Replacement Procedures
♥	103-900-801	1	X76097 — Removal and Replacement Procedures

103-920 Teletest Model Test Signal Generator

♥	103-920-100	1	613-Type — Description, Operation, and Maintenance
---	-------------	---	--

103-925 Noise Measuring Sets

♥	103-925-100	1	(J94006J and J94006K) — Description, Operation, and Maintenance
---	-------------	---	---

103-930 Cable Equalizer Test Set J1C150K

Add	103-930-100	1	
♥	103-930-100	2	Description and Operation
♥	103-930-101	1	942A Equalizer — Description

103-935 Cable Equalizer Fault Location Test Set J1C150L

♥	103-935-100	2	Description and Operation
---	-------------	---	---------------------------