

**NUMERICAL INDEX — DIVISION 804
EQUIPMENT DESIGN AND GENERAL EQUIPMENT REQUIREMENTS
AND ENGINEERING INFORMATION
TOLL SYSTEMS**

1. GENERAL

- 1.01** This section provides an index of System-issued sections in Division 804.
- 1.02** A bullet (●) indicates an item that has been added or changed since the previous issue of the index.
- 1.03** A square (◻) indicates a canceled item. Information relating to the cancellation, if necessary, will be shown in a note following the item. Canceled items and related notes will be deleted upon reissue of the index.
- 1.04** A 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.
- 1.05** 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.
- 1.06** "Add" is the abbreviation for Addendum.
- 1.07** The appearance of an AA number and issue number before the title and following the 9-digit number indicates that the AA section has not been converted and is still valid.

2. LAYERS

2.01 This division is arranged in layers as follows:

- 804-0 Index, General Information, and Miscellaneous Equipments
 - 1 Program Transmission and Radio Telephone
 - 3 Microwave Radio
 - 6 Carrier
 - 9 Test Equipment

3. INDEX

Section Number	Issue	Subject
804-0 INDEX, GENERAL INFORMATION, AND MISCELLANEOUS EQUIPMENTS		

● ♠ 804-000-000 86 Numerical Index — Division 804 — Equipment Design and General Equipment Requirements and Engineering Information — Toll Systems

Specifications

- 804-001-150 5 (J67002) — Distributing Frame — 11'-6" High — Jacks, Protectors, or 8" Terminal Strips on Vertical Side — 8" Terminal Strips Mounted Vertically on Horizontal Side
- 804-001-151 3 (J67001) — Distributing Frames — Protector Frames
- 804-001-152 6 (J61401) — Miscellaneous Intertoll Trunks and Associated Equipments — Relay Rack Units (Also numbered 814-522-150)

Section Number	Issue	Subject
804-001-153	7	(J68631) — Toll Conference Unit and Repeater Bay Equipment and Associated Trunk Units
804-001-154	3	(J68803) — Patching Trunk Bay Equipment and Tandem Patching Trunk Bay Equipment
804-001-155	1	(J68896) — Tandem Patching Bay for Spare Equipments and Patching Trunks for 4-Wire and 6-Wire VF Circuits
804-001-156	2	(J68897) — 4-Wire Order Circuits
804-001-157	10	(J68612) — Telephone Order Wire and Telegraph Test Wire Equipment — Toll and Telegraph Systems
804-001-158	5	(J68648) — Signaling — Sequence Signaling and Telephone Order Wire Equipment
804-001-159	4	(J68814) — Signaling — Sequence Signaling — Transmitting, Receiving and Translating Equipment
804-001-161	3	(J68657) — Toll Conference Service — Multipoint Conference Bridge
804-003-150	14	(J68606) — Echo Suppressor Equipments
804-003-151	11	(J68605) — Echo Suppressors and Associated Testing Equipment
804-003-152	5	(J68881) — 3A and 3B Echo Suppressor
Add 804-003-155	2	
804-003-155	4	(J68914) — 4A Echo Suppressor Bay
Add 804-003-160	1	
804-003-160	2	(J68658) — 5B-Type Echo Suppressor Measuring System — No. 1A, 2, 3, and 4 Echo Suppressors
804-004-150	4	(J68628) — Repeater and Line Equipment — Associated With Telephotograph
804-004-151	6	(J68643) — Voice-Frequency Telephone Repeaters for Use at L1 and L3 Carrier Auxiliary Repeaters
804-004-153	8	(J68635) — V1 and V2 Telephone Repeaters and Associated Equipment
804-004-154	5	(J68638) — A-C Operated V1 Telephone Repeater Application
804-004-155	5	(J68649) — V3 Telephone Repeater — Bay Equipments
804-004-156	5	(J68651) — V3 Telephone Repeaters and Voice Frequency Line Equipment for Voice Frequency and Carrier Applications

NOTICE
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Bell System except under written agreement

SECTION 804-000-000

Section Number	Issue	Subject
804-004-157	1	(J68656) — Tone Operated Control — Telephotograph System
804-005-150	4	(J68777) — 1A Comparator
804-007-150	8	(J68811) — C1 Alarm and Control System
804-007-151	5	(J68804) — B1 Alarm and Control System
804-007-155	7	(J63004) — Alarm Trunk Equipment for Repeater Stations
804-007-156	1	(J63005) — Maintenance Alarm Equipment
804-007-157	2	(J68904) — Signal Converter for International Trunk Supervision
804-007-158	1	(J68957) — Unitized Analog Facility Terminal Equipment For CCITT No. 5 With Line Signaling Transceivers, Optional A6B Channel Banks, Optional Direct Formed Supergroup With Optional 2BX SMAS No. 3 Maintenance Connectors Arranged for 96 Circuits
804-007-160	2	(J68883) — Broadband Restoration — Order Wire Equipment
♥ 804-007-161	1	(J68890) — Failure Display Equipment 4 Broadband Restoration
Add 804-007-162	1	
♥ 804-007-162	1	(J68891) — Control Console — Broadband Restoration
♥ 804-007-164	1	(J68907) — Telemetry Printer for Broadband Restoration
Performance Requirements		
804-020-180	3	1600- or 2000-Cycle Single-Frequency Signaling Circuits SD-55954-01 and SD-55954-02
804-020-181	2	1600- or 2000-Cycle Supply Circuit SD-55962-01
804-020-182	2	1600- or 2000-Cycle Single Frequency Signaling Circuit SD-56202-01
804-020-183	1	1600- or 2000-Cycle Supply Circuit SD-56239-01
804-020-184	2	2400- or 2600-Cycle Supply Circuit — J68602CM Oscillator Circuit — J68602CN Transfer Circuit
804-020-185	4	2400- or 2600-Cycle Single-Frequency Signaling Circuit and Network Circuit
804-020-186	1	2400- or 2600-Cycle Single-Frequency Signaling Circuit SD-56202-02
804-020-190	2	Ringers and Signaling Circuits and Associated Equipment
804-021-180	1	Frequency Indicator and Alarm Circuits
804-021-181	2	Oscillators and Associated Amplifiers
804-021-182	1	Sequence Signaling and Order Wire Circuits for Use with TD2 Radio Relay Systems, C1 Alarm and Control Systems, Television Networks

Section Number	Issue	Subject
804-021-183	4	Toll Conference Service Equipment
804-021-184	1	J68612E Four Wire Telephone Order Wire Bridging Arrangements
804-021-185	1	Network and Network Jack Units J68624
804-021-186	2	Crosstalk Tests on Newly Installed Repeating Coil Groups and Composite Sets Used in Cable Circuits
Add 804-021-192	1	
804-021-192	1	Multiport Conference Bridge
804-021-193	3	C1 Alarm and Control System — Alarm Sending and Receiving Circuits
804-022-182	2	22A Type Telephone Repeaters and Associated Circuits
804-022-186	1	Switched-In V1 Telephone Repeaters and Repeating Coil Hybrid Circuits with Associated Circuits at Non-Repeatered Terminals for Toll Switching System No. 4
804-022-187	4	V1 Telephone Repeaters and Associated Equipment
804-022-192	6	1A Echo Suppressor and Disabler
♥ 804-022-193	1	2A Echo Suppressor
804-022-194	1	3A Echo Suppressor
804-022-195	1	3B Echo Suppressor
804-022-197	1	58-Type Echo Suppressor — Measuring System
804-022-198	1	Tone-Operated Control Circuit (SD-56524-01)
804-023-180	2	1A Compressor and 1A Expander (1A Comparator)

Toll Terminal Equipment

804-050-150	2	(J68935) - Voiceband Interface — No. 4 ESS Interface
804-050-151	2	(J68952) - Digroup Terminal
804-050-153	4	(J68960) — Digital Interface
804-050-157	1	(J68965) — Unitized Digital Facility Terminal — With D4 Channel Banks, CCITT — No. 5 Line Signaling Transceivers and 2BX Maintenance Connectors — For use in No. 4 ESS International Switching Centers

804-1 PROGRAM TRANSMISSION AND RADIO TELEPHONE

Program Transmission

Specifications

804-101-150	2	(J68634) — Program Transmission Equipment for Switching of Program Circuits
804-101-151	12	(J68617) — Program Transmission Panels and Units

Section Number	Issue	Subject	Section Number	Issue	Subject
Performance Requirements			804-151-187	2	D1 Alarm and Control Circuit and Order Wire Circuit
804-105-180	4	I2C Program Amplifiers and Associated Equipment	804-151-188	2	D2 Alarm and Control and Order Wire Circuit
804-105-181	4	I4C Program Amplifiers and Associated Equipment	804-152-180	1	A2 Channel Shifter Equipment for Radio Telephone Terminals
804-105-182	2	700A Volume Indicator	804-152-181	2	B1 Channel Shifter Equipment for Multichannel Single Sideband Radio Circuits
804-105-183	1	754 Type Volume Indicators	804-152-184	1	A2 Vogad Circuit
804-105-184	2	J64001G Volume Indicator	804-152-185	3	B2 Vogad Circuit
804-105-185	2	Open Wire Program Amplifiers and Associated Equipment	804-152-189	1	Voice Frequency Amplifier J68312C for Radio Telephone Terminals
Radio Telephone			804-152-190	6	A1 Noise Reducer for Radio Telephone Terminals
Specifications			804-152-191	1	A2 Noise Reducer for Radio Telephone Terminals
804-130-150	1	(J68328) — B4 Control Terminal	804-152-193	5	A5 Privacy System for Radio Telephone Terminals
804-130-153	4	(J68352) — Terminating Equipment	804-152-194	1	B3 Privacy Inverter
804-130-154	1	(J68360) — Marine Service Transmitting Station for Use With Aeronautical Communications Equipment Incorporated — Radio Transmitter Model 446	804-3 MICROWAVE RADIO		
804-131-151	4	(J68312) — Voice Frequency Amplifiers	Miscellaneous and Common Equipment		
804-131-152	2	(J68325) — A2 Channel Shifter Panels	804-301-150	2	(J68388) — TD-to-TH and TH-to-TD IF Shifters
804-131-153	1	(J68334) — B1 Channel Shifter Panels	804-301-180	1	IF Shifters — J68388A, B
804-131-154	4	(J68326) — Vogad and Bypass Panels	804-302-150	2	(J68385) — Emergency Broadband — IF Restoration
804-131-155	2	(J68317) — B3 Privacy	804-302-180	1	Emergency Broadband IF Restoration
804-131-156	2	(J68324) — A5 Privacy	804-302-181	1	Broadband IF Restoration — IF Restoration Pilot Detector
804-131-157	4	(J68364) — TV Program Switching — Switching Control Panel and Associated Relay Rack Equipment	804-302-182	1	IF Restoration — J68385L Interconnecting Status and Control Panel for TD Automatic Protection Switching
804-132-150	1	(J68375) — D1 Alarm and Control Circuit and Order Wire Circuit	804-302-183	1	IF Restoration — J68385M Interconnecting Status and Control Panel for the 100A Protection Switching System
804-132-151	4	(J68379) — D2 Alarm, Control, and Order Wire System	804-302-184	1	IF Restoration — J68385N Interconnecting Status and Control — Panel for TH Radio Protection Switching
Performance Requirements			804-303-150	5	(J68381) — 100A Protection Switching System
804-150-180	5	C2 Control Terminal	Add 804-303-180	1	
804-150-181	4	C4 Control Terminal	804-303-180	6	Performance Requirements — 100A Protection Switching System — Transmitting IF Switch and Control Bay
804-150-182	2	E1 Control Terminal	804-303-181	8	Performance Requirements — 100A Protection Switching System — Receiving IF Switch and Control Bays
804-150-183	1	J68320 G1 Control Terminal	804-303-182	3	100A Protection Switching System — Auxiliary Station IF Switch and Control Bay
804-150-184	2	J68327 G2 Control Terminal	804-303-183	3	Performance Requirements — 100A Protection Switching System — Local and Remote Controls, Indications, and Alarms
804-151-180	2	Third Channel Applique per J68323I and Associated Bridging Equipment for Radio Telephone Terminals			
804-151-181	2	Telegraph or Third Channel By-Pass Circuit for B1 or B2 Vogad			

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Section Number	Issue	Subject
804-303-184	1	100A Protection Switching System — Test Set
804-303-185	4	Performance Requirements — 100A Protection Switching System — Job Additions
804-304-150	3	(J68398) — 200-Type Protection Switching System
804-304-180	1	200A Protection Switching System
804-304-181	1	Performance Requirements — 200B Protection Switching System
804-305-150	2	(J68420) — 2A Restoration Switch
804-305-180	1	Performance Requirements — 2A IF Restoration Switch
804-306-150	4	(J68421) — Line Branching and Mastergroup Combining for Use With MMX-2 on Radio
804-307-150	2	(J68910) — Switch and Control Bays and Control Units for Broadband Switching
804-308-150	2	(J68424) — 300A Protection Switching System
804-308-155	1	(J68429) — 400 Type IF Protection Switching Systems
804-308-180	2	Performance Requirements for the 300A Protection Switching System
804-308-185	1	Performance Requirements for the J68429AA Test Set — 400A Protection Switching System — Specialized Test Equipment
804-308-187	2	Performance Requirements — 400B Protection Switching System
804-308-188	1	Performance Requirements for the J68437B — 401B Protection Switching System
804-308-190	1	Performance Requirements for the 401C Protection Switching Unit
804-309-150	1	(J68384) — Antennas, Passive Reflectors, and Radomes for Microwave Communication Systems
804-309-151	3	(J68393) — Indoor — Waveguide Considerations
804-309-152	2	(J68399) — Auxiliary Channel — General Requirements
804-309-153	5	(J68383) — TD & TH Radio — 3-Type FM Terminal Equipment
804-309-154	5	(J68418) — 4- and 5-Type FM Terminal Equipment
804-309-158	2	(J68451) — Toll Systems — Heterodyne Auxiliary Channel Equipment
804-309-180	1	3A FM Terminal Transmitter
804-309-181	1	3A FM Terminal Receiver
804-309-182	1	Performance Requirements — 4A FM Terminal Receiver

Section Number	Issue	Subject
804-309-183	1	Performance Requirements — 4A FM Terminal Transmitter
♥ 804-309-184	2	Performance Requirements — Group Entrance Link — SD-50968-01 and ED-51390-()
Add 804-313-150	1	
804-313-150	1	(J68436) — Protected Gain and Equalization Bay
804-314-150	1	(J68445) — IF Entrance Link
804-325-150	4	(J68359) — Non-Western Microwave Radio Relay — Motorola Message Equipment — MR-10 — System Requirements
804-325-151	3	(J68361) — Non-Western Microwave Radio Relay — Motorola Multiplex Equipment — Unit Requirements

TD Radio

Specifications

804-330-152	7	(J68338) — IF and Video — Patching and Monitoring Equipment
804-330-153	3	(J68417) — Microwave Radio — IF Patch and Access, FM Terminals, FM Terminal Patching, and Associated Miscellaneous Equipment
804-330-154	6	(J68341) — Radio and Express Radio Order Circuit Equipment for Use With TD and TH Microwave Radio System
804-330-155	8	(J68342) — Alarm Equipment for Use With Major Route — Distribution Fuse, Individual, Audible, and Visual Alarms
804-330-156	4	(J68346) — Alarm Equipment for Use With Secondary Route TD Microwave Radio Systems — Distribution Fuse, Individual, Audible, and Visual Alarms
804-330-157	7	(J68350) — Automatic Switching — Switching Control Equipment
804-330-158	6	(J68351) — Automatic Switching — Auxiliary Station Switching and Control Equipment
804-330-160	2	(J68354) — Program and Terminal Maintenance Switching, Patching, and Monitoring for IF, Video, and Pilot Resupply Equipment for Automatic Switching
804-330-161	6	(J68344) — Remote Control Equipment for Controlling 223-Type Switches Over Metallic Loops or C1 Alarm System
804-330-162	4	(J68356) — Remote Control Equipment Using Sequence Signaling
804-330-164	5	(J68345) — Transmitter-Receiver Test Set

Performance Requirements

804-330-180	2	FM Terminal Transmitter
804-330-181	2	FM Terminal Transmitter — Tested With J68337H FM Terminal Test Set

Section Number	Issue	Subject	Section Number	Issue	Subject
804-330-182	2	FM Terminal Transmitter — Balanced Input	Performance Requirements		
804-330-183	2	FM Terminal Receiver	804-331-180	1	Over-all Radio System
804-330-184	1	IF and Video Monitoring and Patching Equipment	804-331-181	2	J68340A Transmitter-Receiver Test Bay
804-330-185	1	Video Monitor Amplifier	804-331-182	10	TD-2 Transmitter-Receiver Bay — Tested With J68340A Test Bay
804-330-186	1	IF Bridging Amplifier	804-331-183	2	J68345A Transmitter-Receiver Test Bay
804-330-187	4	Automatic Switching — Switching Control Circuits — Switching and Control Bay J68350A	804-331-184	7	TD-2 Transmitter-Receiver Bay — Tested With J68345A Test Set
804-330-188	3	Initiator Circuits for Regular and Protection Channels for TD Radio Automatic Switching	804-331-185	1	J68378B IF Amplitude Equalization Circuit
804-330-189	1	Initiator Test Set for TD Radio Automatic Switching	804-331-186	1	FM Terminal Test Set
804-330-190	2	Video Pilot Supply and Distribution Circuits for TD Radio Automatic Switching	804-331-187	2	J68337H FM Terminal Test Set
804-330-191	1	IF Pilot Resupply Circuit for TD Radio Automatic Switching	804-331-188	1	FM Terminal Receiver for TD Radio Tested With J68337H FM Terminal Test Set
804-330-192	1	Program Switching Circuits and Program Switching Control Circuits	804-331-189	2	TD2 Radio Automatic Switching Over-all Systems Tests
TD-2 Radio			804-331-190	1	FM Terminal Transmitter Automatic Protection — Switching System Per SD-50449-01 for Baseband to IF Transmission Circuits — Connecting L-Type Multiplex to TD-2 Radio
Specifications			804-331-191	1	J68382 FM Terminal Receiver — Protection Switching System — IF-to-Baseband Transmission Circuit — Connecting TD Microwave Radio to L-Type Multiplex
804-331-150	-	AA266.031, Iss 2 (J68339) — General Requirements	804-331-192	1	Visual Delay Set
804-331-151	8	(J68331) — Transmitter-Receiver Bay	804-331-193	3	J68333A Test Bench
Add 804-331-152	2		804-331-194	1	RF Leakage
804-331-152	9	(J68330) — IF, Microwave, and Control Units	TD-3 Radio		
804-331-153	4	(J68389) — Microwave Radio — Channel Equalization and Level Adjustment	Specifications		
804-331-154	1	(J68378) — IF Amplitude Equalization	Add 804-332-150	1	
804-331-155	5	(J68349) — Automatic Switching — IF Switching Equipment	804-332-150	2	(J68386) — Transmitter-Receiver Bay
804-331-156	5	(J68382) — TD Microwave Radio — 1 x 5 — Automatic Protection Switching Equipment	804-332-151	3	(J68392) — Transmitter-Receiver Test Set
804-331-157	-	AA266.037, Iss 5 (J68343) — Tube Cooling System	Add 804-332-152	1	
Add 804-331-158	1		804-332-152	3	(J68387) — Transmitter-Receiver Bay Components
804-331-158	4	(J68368) — Outdoor Waveguide for Microwave Communication Systems	804-332-153	2	(J68396) — TD-3/TH-3 Radio Systems — Test Bench Facility
804-331-159	3	(J68348) — General Requirements for Secondary Route Installations	Add 804-332-154	1	
804-331-161	6	(J68337) — FM Terminal Test Set	804-332-154	1	(J68390) — Long Haul Microwave Radio Systems
804-331-162	-	AA266.036, Iss 6 (J68333) — Test Bench Equipment	804-332-155	2	(J68391) — Alarm Equipment for Use with TD-3 and TH-3 Microwave Radio Relay System — Distribution Fuse, Individual, Audible, and Visual Alarms
● 804-331-163	5	(J68340) — TD-2 Radio Transmitter-Receiver Test Equipment and Microwave System Power Meter	Performance Requirements		
<i>Formerly AA 266-034</i>			804-332-180	1	J68392A TD-3 Radio Transmitter-Receiver Test Set

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Section Number	Issue	Subject
804-332-181	3	J68386A and B TD-3 Transmitter-Receiver Bays
804-332-182	2	Station Audible, Visual, and Common Alarm Circuits
804-332-183	1	J68386G and H Transmitter-Receiver Bays

TH Radio

Specifications

804-333-150	-	AA266.067, Iss 1 (J68401) — General Requirements
804-333-151	-	AA266.068, Iss 3 (J68402) — Broadband and Auxiliary Channel — Radio Transmitter and Receiver Equipment
Add 804-333-153	1	
804-333-153	3	(J68404) — Component Equipment
804-333-154	2	(J68406) — FM Terminal Equipment
804-333-155	3	(J68407) — Alarm Equipment for Use With TH-1 Radio Systems — Distribution Fuse, Individual, Audible, and Visual Alarms
Add 804-333-156	1	
804-333-156	3	(J68854) — Message Connecting Links
Add 804-333-157	1	
804-333-157	2	(J68409) — Automatic Protection Switching Bay Equipment
804-333-158	-	AA266.082, Iss 1 (J68410) — Automatic Protection Switching Equipment — Panels, Mountings, and Plug-In Units
804-333-159	-	AA266.083, Iss 1 (J68411) — IF and Baseband Patching, Monitoring, Amplifier, Equalization Equipment, and Station Transmission Cabling
804-333-161	2	(J68405) — Transmitter-Receiver Test Set
804-333-162	2	(J68415) — Auxiliary Channel Test Set
804-333-163	2	(J68408) — TH Microwave Radio — FM Terminal Test Set
804-333-164	-	AA266.084, Iss 1 (J68412) — Protection Switching Test Set
Add 804-333-166	1	
804-333-166	3	(J68848) — Maintenance Center — Test Equipment

Performance Requirements

804-333-180	5	Microwave Carrier Supply
804-333-181	3	TH Microwave Radio — Broadband and Auxiliary Channel Equipment — Auxiliary Channel Transmitter and Receiver
804-333-182	2	TH Auxiliary Channel Terminal
804-333-183	1	Transmitter-Receiver Test Set
804-333-184	7	Broadband Channel Radio Transmitter

Section Number	Issue	Subject
804-333-185	3	Broadband Channel Radio Receiver
804-333-186	1	FM Terminal Test Set
804-333-187	2	J68406A FM Terminal Transmitter
804-333-188	1	J68406K FM Terminal Receiver
804-333-189	1	Message Connecting Links
804-333-190	1	TH Mop-Up Equalization Circuit
804-333-191	1	Main and Repeater Stations
804-333-192	1	J68412A Protection Switching Test Set
804-333-193	2	Automatic Protection Switching System — FM Terminal Switching — DC Reporting — IF-to-Baseband Switching for FM Terminal Receivers — Baseband-to-IF Switching for FM Terminal Transmitters — (J68409A, J68409B, and J68409D Bays)
804-333-194	3	Automatic Protection Switching System — IF Switching Tone Reporting Section (J68409A and J68409C Bays)
804-333-195	1	Protection Switching System — Automatic Exerciser
804-333-196	2	Maintenance Center Test Equipment
804-333-197	1	Tube Cooling System
804-333-198	1	J68402N TH-1 Radio Broadband Channel Radio Receiver

TH-3 Radio

Specifications

804-334-150	2	(J68423) — Medium Haul — Terminal and Order-Wire and Alarm Equipment
Add 804-334-151	1	
804-334-151	1	(J68426) — Medium Haul System — General Equipment Design Requirements
804-334-152	1	(J68422) — Frequency Diplexed — Auxiliary Channel
Add 804-334-153	1	
804-334-153	1	(J68913) — Transmitter-Receiver Bay Components

Performance Requirements

804-334-180	1	The J68912A and J68912B TH-3 Transmitter-Receiver Bays
804-334-181	2	Auxiliary Channel Switching System — Main Station
804-334-182	1	The Farinon FJ-00008D — Frequency Diplexed Auxiliary Channel Multiplex Circuits
804-334-183	1	J68422C and J68422E Frequency Diplexed Auxiliary Channel System — Modulating/Demodulating Circuits

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804-334-184	1	Frequency Diplexed Auxiliary Channel Switching System — Repeater Station	804-602-152	5	(J68787) — Broadband Carrier Telephone Equipment — Type C1 or A1 (5- or 8-KC) or B1 (15-KC) or K Carrier Line Bridges — Carrier Program Transmission
804-334-185	1	TH-3 Medium Haul Radio	804-602-153	1	(J68790) — Broadband Carrier Telephone — A1 Transmission Alarm Equipment
804-334-186	1	Frequency Diplexed Auxiliary Channel	804-602-154	6	(J68799) — Broadband Carrier Telephone — Group Connectors and L1 Carrier Supergroup Connectors
TJ Radio			804-602-155	5	(J68805) — H.F. Broadband Carrier Terminal — Group Branching and Bridging Equipment for 5 or 8 KC Carrier Program Transmission
Specifications			804-602-156	5	(J68832) — Broadband, C, H, N, and O Carrier Telephone — Voice-Frequency Channel Patch Bay Equipment
Add 804-336-151	1		804-603-150	2	(J68833) — TD Radio — Types A, B, and C Wire Line Entrance Links and TJ Radio — Type A Wire Line Entrance Link
804-336-151	3	(J68371) — Transmitter-Receiver Bay	804-603-152	4	(J68874) — Solid-State Wire-Line Entrance Links for Connection of L-Type Multiplex to Microwave Radio Systems
804-336-152	3	(J68372) — Transmitter-Receiver Units	804-603-153	3	(J68903) — Microwave Radio — 3 Wire-Line Entrance Link Equipment
804-336-153	3	(J68373) — Order-Wire, Alarm, and Control Bay	804-603-180	2	TD Radio Wire Line Entrance Link Per SD-59459-01 for Cable Lengths Less than 2400 Feet
804-336-154	4	(J68374) — Diversity Switch and Transmission Unit	804-603-181	1	TD Radio Wire Line Entrance Link Per SD-59459-02 for Cable Lengths Less than 2700 Feet
804-336-155	2	(J68376) — TJ Microwave Radio — Test Sets and Test Equipment — Testing and Maintenance	804-603-182	1	TD Radio Wire Line Entrance Link Per SD-59494-01 for Cable Lengths Exceeding 7.9 Miles
Performance Requirements			804-603-183	1	TD Radio Wire Link Entrance Link Per SD-59527-01 for Cable Lengths between 2400 Feet and 7.9 Miles
804-336-180	2	Transmitter-Receiver Bay	804-603-184	1	TD Radio Wire Line Entrance Link Per SD-59527-02 for Cable Lengths between 2400 Feet and 7.9 Miles
804-336-181	2	TJ Order-Wire, Alarm, and Control Bay for Use With TJ Radio D1 Alarm Systems — Including TJ/TM-1 Applications	804-604-150	2	(J68909) — Primary Frequency Supply — Distribution
804-336-182	2	TJ Diversity Switch for Order-Wire, Alarm, and Control Bay for Use With TJ Radio D2 Alarm Systems — Including TJ/TM-1 Applications	804-604-151	2	(J68911) — 64-KHz Independent Pilot Supply and Distribution Circuit
804-336-183	2	Type A, Wire-Line Entrance Link Per SD-59459-02	804-604-180	2	J68909 Distribution Buses for the Primary Frequency Supply Used with Carrier Telephone Systems
804-336-184	1	Wire-Line Entrance Link Per SD-50006-01 for Cable Lengths Between 2400 Feet and 7.9 Miles	Add 804-604-181	1	
804-337-180	3	TN-1 Microwave Radio — Transmitter-Receiver Panel	804-604-181	2	Performance Requirements — Independent 64- and 512-kHz Pilot Supplies and Distribution Circuit
804-337-181	1	TN-1 Microwave Radio — Overall System	804-604-182	1	64-KHz Pre-amplifier and Distribution Circuit
804-6 CARRIER					
Miscellaneous Equipments					
804-601-150	4	(J68738) — Carrier Drainage Coil Equipment			
804-601-151	8	(J68746) — Miscellaneous Equipment for Main and Auxiliary Stations			
804-601-152	3	(J68876) — Restoration Patch Bays			
804-601-180	4	A1 and C1 Carrier Program Terminals and Connections to Group Circuits			
804-601-181	5	Two Channel Bank Type EB			
804-602-150	10	(J68733) — Broadband Carrier Telephone — 12-Channel Bank Equipment Type A1 (For "J", "K", and "L" Systems) — Group Terminal Equipment (For K1 Systems)			
804-602-151	10	(J68775) — Broadband Carrier Telephone — Carrier and Pilot Supply Panels			

SECTION 804-000-000

Section Number	Issue	Subject
K1 Carrier		
Specifications		
804-624-150	6	(J68740) — Twist, Transmitting, Test, Program Transmitting or Auxiliary Switching Amplifier Panel; Auxiliary Receiving Amplifier Panel; Bulge and Slope Network Panel; and Associated Equipment
804-624-151	4	(J68741) — 12-60 KC Line Amplifier for Use with 19 Gauge Non-Loaded Cable Circuits
804-624-152	7	(J68745) — Crosstalk Balancing Equipment
804-624-153	9	(J68773) — Type "K" and "L" Carrier Telephone — Carrier and Pilot Supply Bays
804-624-154	3	(J68776) — Transmission Regulation — Pilot Channel Control and Gain Deviation Limiter Equipment
804-624-155	4	(J68778) — Type K and L Carrier Telephone — Amplifier-Rectifier Panels
804-624-156	3	(J68785) — Alarm Signal and Twenty Cycle Repeater and Associated Trunk Equipment
804-624-157	2	(J68795) — Line Building Out Equipment

Performance Requirements		
804-624-180	7	Terminal
804-624-181	9	Line and Twist Amplifiers and Associated Equipment
804-624-182	3	Line and Amplifier Switching Equipment
804-624-183	3	Deviation Regulator for Repeaters and Receiving Terminals
804-624-184	1	Double Sideband Program Terminal
804-624-185	1	Connecting Circuit — K1 and K2 Carrier Telephone
804-624-186	1	Manual Deviation Regulator — K1 Carrier Telephone
804-624-187	3	Carrier Program Through and End Branching Circuits Using A1A, A1B, A1BS, C1A, C1B and C1BS Carrier Line Bridges
804-624-188	2	A1CC, C1CC, and C1CT Carrier Program Line Bridges Using Single-Terminal Bridge with Receiving Selector Circuit
804-624-189	6	42A Transmission Measuring System
804-625-180	5	A1 and C1 Carrier Program Terminals Associated with Channel Banks — K and L1 Carrier Telephone
804-625-181	11	Carrier and Pilot Supply for K and L1 Carrier Telephone Systems
804-625-182	1	B1 Carrier Program Terminal — K and L1 Carrier Telephone

Section Number	Issue	Subject
K2 Carrier		
Specifications		
804-626-150	1	(J68844) — Equipment in Main Repeater and Terminal Stations
804-626-151	6	(J68784) — Group Terminal Equipment
804-626-152	7	(J68782) — Regular and Portable Line Amplifier and Associated Equalizer Equipment
804-626-153	4	(J68786) — Common Grid Battery Supply Equipment
804-626-154	6	(J68783) — Twist Amplifier Equipment
804-626-155	3	(J68788) — Carrier Line Switching and Test Pilot Supply Equipment
804-626-156	6	(J68792) — Individual Alarm, Alarm Trunk, and Alarm Trunk Signaling Units
804-626-157	4	(J68793) — K1-K2 Junction Amplifier, and Auxiliary Amplifier for Use in Tandem With Twist Amplifier

Performance Requirements		
804-626-180	9	Terminal
804-626-181	4	Line Amplifiers and Associated Equipment
804-626-182	4	Twist Amplifiers and Associated Equipment
804-626-183	3	Line Switching Equipment
804-626-184	4	Test Pilot Supply Equipment

L Carrier		
Specifications		
804-627-150	8	(J68774) — Terminal Panels
804-627-151	9	(J68768) — Repeater Panel Equipment
804-627-152	9	(J68770) — Repeater Bay Equipment
804-627-153	10	(J68772) — Group and Supergroup Terminal Bays
804-627-154	5	(J68801) — Supergroup Blocking Equipment
804-627-155	5	(J68791) — Equipment for Auxiliary and Equalizing Auxiliary Repeater Stations
804-627-156	9	(J68769) — Miscellaneous Maintenance and Testing Equipment
804-627-157	3	(J68796) — Miscellaneous Equipment
804-627-159	2	(J68937) — Order Wire Bay
804-627-160	1	(J68942) — Synchronization Distribution

Performance Requirements		
804-627-180	1	J68798 Regulator Repair and Repeater Test Equipment

Section Number	Issue	Subject	Section Number	Issue	Subject
804-627-181	1	J68798B Modulation Test Set	804-629-153	3	(J68816) — Amplifiers
L1 Carrier			804-629-154	4	(J68817) — Regulators
Specifications			804-629-155	4	(J68821) — Filament and Bias Supply
804-628-150	2	(J68789) — Application Specification	804-629-156	5	(J68836) — Gain Equalizer and Computers
804-628-151	6	(J68771) — High-Frequency Switch Equipment	804-629-157	5	(J68820) — L3 or L4 Carrier — Automatic Line Switching
804-628-152	3	(J68797) — Terminal Test Oscillator Bay	804-629-158	4	(J68818) — Transmission Panel — Equipment
804-628-153	4	(J68798) — Maintenance Center Equipment	Add 804-629-159	1	
804-628-154	2	(J68806) — Regulators	804-629-159	5	(J68830) — Main Repeaters
804-628-155	1	(J68808) — Line Amplifiers	804-629-160	4	(J68823) — Main and Equalizing Auxiliary Repeaters — Cable Terminating Panels — Equipment
804-628-157	3	(J68807) — Television Line Equipment	804-629-161	7	(J68819) — Auxiliary and Equalizing — Auxiliary Repeaters
804-628-158	1	(J68825) — Repeater Activity Test Set	804-629-162	6	(J68815) — L3 Carrier-Power Supply Equipment Units for Use at Repeaters Operating on Power Received Over Coaxial Cable
804-628-159	6	(J64053) — 53A Mobile Oscillator for Use	804-629-163	3	(J68837) — Transmission Measuring — Cosine Equalizer Adjustment Set
Performance Requirements			804-629-164	5	(J68827) — Testing Equipment
804-628-180	5	12-Channel Bank Type A4 and Type A5 when Used With L1 and L3 Carrier Telephone	804-629-165	1	(J68869) — Phase Difference Measuring Set
804-628-181	6	Amplifiers, Regulators, and Auxiliary Repeater Equipment	804-629-166	6	(J68835) — Amplifier and Regulator Test Set
804-628-182	6	Main and Terminal Repeater Equipment	804-629-167	2	(J68839) — Thermistor Control Sets for Testing and Maintenance
804-628-183	1	J68798C Vacuum Tube Test Set Equipment	Performance Requirements		
804-628-184	2	Carrier Program Terminal Associated With B2 and C2 Television Terminals	804-629-180	3	L3 Carrier Telephone Terminal — Submaster and Master Group Equipment
804-628-185	5	Group Branching and Bridging Circuits and 5 KC Program Bypass Circuits for Use With Carrier Program Transmission	804-629-181	6	L3 Carrier Telephone Terminal — Carrier and Pilot Supply Equipment (Including Installations Having Only Emergency Pilot Supply Equipment)
804-628-186	5	Television Branch, Terminal Line, and Dropping Circuits	804-629-182	3	Amplifier and Regulator Test Circuit
804-628-187	3	B2 (Transmitting) Television Terminal	804-629-183	3	Automatic Line Switching for L3 and L4 Carrier
804-628-188	2	B3 Transmitting Television Terminal Using Automatic Switch SD-59704-01	804-629-184	1	Equalizing, Switching, and Terminal Main Repeater Equipment
804-628-189	3	C2 (Receiving) Television Terminal	804-629-185	1	Transmission Bay and Television Dropping Bay at Equalizing Auxiliary Repeaters
804-628-190	3	C3 Receiving Television Terminal — Using Automatic Switch SD-59704-01	L4 Carrier		
L3 Carrier			Specifications		
Specifications			804-630-150	4	(J68877) — Carrier Telephone — L4 Coaxial System
804-629-150	4	(J68829) — L3 Supergroup Bank — L3 Master Group Bank — Associated Carrier Supplies and High-Frequency Patching Equipment	Add 804-630-151	1	
804-629-151	4	(J68828) — Carrier and Pilot Supply — Equipment	804-630-151	4	(J68882) — Mastergroup Multiplex 2 (MMX-2) Terminal — MMX-2C for L4 Coaxial Systems — MMX-2R for TH-(), TD-(), and TD-3 Radio Systems
804-629-152	2	(J68822) — Pilot Indicator Panel and Pilot Alarm Unit			

SECTION 804-000-000

Section Number	Issue	Subject
804-630-152	2	(J68895) — L4 Remote Control Center and Loop-Back Equipment
804-630-153	2	(J68906) — Repeater Test Set and L4S Repeater Test Stand

Time Assignment Speech Interpolation (TASI)

Add	804-630-154	2	
	804-630-154	1	(J68918) — Supergroup Distributing Terminals
♥	804-630-155	2	L Carrier Mastergroup — Digital Terminal Equipment (LMD)
	804-630-156	2	(J68953) — Mastergroup Translator Equipment

L5 Carrier

Specifications

	804-631-150	2	(J68923) - Main Station Line Equipment — Test Stand and Warm-Up Rack ED-51487
	804-631-151	2	(J68919) — L5/L5E Carrier System
	804-631-152	3	(J68934) — Jumbogroup Frequency Supply — JMX/L5 Carrier or MGMT-C/L5E Carrier
	804-631-153	2	(J68922) — L5/L5E Carrier — Transmission Surveillance System
	804-631-154	3	(J68921) — L5/L5E Carrier — Line Protection Switching System (LPSS-3)
Add	804-631-155	1	
	804-631-155	1	(J68936) — L5 Carrier — Equalizer Adjustment Unit
	804-631-156	2	(J68931) — Basic Jumbogroup Trunk Bay
	804-631-157	1	(J68920) — Jumbogroup Multiplex (JMX) Terminal for L5 Coaxial Systems
	804-631-158	3	(J68938) — Restoration Trunk Bay for JMX-L5 Systems or L5E Systems
	804-631-159	1	(J68940) — Bell System Reference Frequency Standard
Add	804-631-160	1	
	804-631-160	2	(J68955) — Multimastergroup Translator for Cable Systems (MMGT-C)
	804-631-161	1	(J68958) — L5/L5E Carrier — Equipment Design Requirements — Toll Systems

Submarine Cable — Terminal

♥	804-637-150	3	(J68900) — SF Submarine Cable System — Terminal Stations
• Add	804-637-151	1	
• ♥	804-637-151	4	(J68901) — SF Submarine Cable — Terminal Transmission Bays — Terminal Station
Add	804-637-152	1	
♥	804-637-152	4	(J68892) — SF Submarine Cable — High-Frequency Line, Order Wire, and Associated Equipment — Terminal Station

Section Number	Issue	Subject	
• Add	804-637-153	1	
• ♥	804-637-153	4	(J68893) — SF Submarine Cable System — Multiplex and Carrier Supply Equipment — Terminal Station
♥	804-637-157	1	(J64733) — SF Submarine Cable — Cable Laying Test Set
♥	804-637-158	2	(J68917) — Repeater Locating Test Set — SD and SF Submarine Cable
♥	804-637-164	1	(J64734) — SG Submarine Cable System SG/SF Cable Laying Test Set
♥	804-637-165	1	(J68939) — Repeater Monitoring Set — SF and SG Submarine Cable
♥	804-637-166	1	(J64735) — Transportable Transmission Measuring Set for Installation of SG Cable Shore Ends
♥	804-637-167	1	(J68943) — SG Submarine Cable System — SG/SF Data Translator Cabinet
♥	804-637-168	1	(J68944) — SG Submarine Cable — SG High Frequency Line for SG Submarine Cable Installation
♥	804-637-169	1	(J68945) — SG Submarine Cable System — General Purpose Test Equipment Cabinet
♥	804-637-170	1	(J68946) — SG Submarine Cable — Terminal Station Power Separation Filter
♥	804-637-173	1	(J68949) — SG Submarine Cable — Shipboard Portable Test Load for Testing SG Shipboard Power Feed Equipment
♥	804-638-159	2	(J68860) — SD Submarine Cable System
♥	804-638-162	1	(J68950) — SG Submarine Cable Medium Voltage Power Feed Equipment for Installation of SG Cable Shore Ends

TASI

Add	804-639-154	1	
♥	804-639-154	1	(J68905) — Terminal Bays and Associated Equipment — TASI B Switching System
Add	804-639-155	1	
♥	804-639-155	1	(J68925) — Circuit Pack Test Set and Associated Equipment — TASI B Switching System
♥	804-639-160	1	TASI-E System Frame — Equipment Description
♥	804-639-181	1	Performance Requirements for International Time Assignment Speech Interpolator Type E — TASI-E

L Type Multiplex

Specifications

	804-640-150	4	(J68858) — Carrier Telephone
Add	804-640-151	2	
	804-640-151	4	(J68853) — A5 Channel Bank Equipment
	804-640-152	4	(J68857) — Carrier and Pilot Supply

Section Number	Issue	Subject	Section Number	Issue	Subject
804-640-153	2	(J68872) — 64-KC Pilot Monitor	804-640-193	1	LWM-1 Wideband Modem
804-640-154	1	(J68929) — A6 Channel Bank Equipment	804-640-194	1	LWA-1 Alternate Use Panel
804-640-155	2	(J68867) — L60A and L120A — Multiplex Terminal	804-640-195	1	LWM-2 Wideband Modem
804-640-156	3	(J68868) — LWM-1, LWM-3, LWM-4 Wideband Modems, LWA-1 Alternate Use Panel	804-640-196	2	LWM-3 Wideband Modem and LWM-4 Wideband Modem
804-640-157	2	(J68880) — LWM-5 and LWM-6 Wideband Modems	804-640-197	2	LWM-5 Wideband Modem
804-640-158	2	(J68863) — Basic Message Connecting Link for Connection of TL Radio	804-640-198	1	LWM-6 Wideband Modem
804-640-159	2	(J68856) — Basic Message — Connecting Link for Connection for L-Type Multiplex to TJ or TL Radio	804-9 TEST EQUIPMENT		
804-640-160	1	(J68930) — Group Distribution and Trunks	804-910-150	6	(J94710) — Trunk Test Set (Box Types) — Toll and Step-by-Step Systems (Also numbered 814-637-151)
804-640-166	1	(J68959) — Alarm Trunk Release and Make-Busy Equipment — For Use With E-Type or Single Module F Type — E and M Single Frequency Signaling and A5/A6 and N2/N3 Channel Banks	Add 804-910-151	2	
Performance Requirements			804-910-151	12	(J64001) — 1-Type Panels, Units, and Portable Test Sets for Transmission Measuring
804-640-180	8	Carrier Telephone Terminal — Channel, Group, and Supergroup Equipment	804-910-154	4	(J64005) — Test Sets — Transmission Measuring
804-640-181	6	J68857 Carrier and Pilot Supply	804-910-156	2	(J64009) — Transmission Measuring 9A Video Distortion Meter — Low Frequency for Use With TV Video Circuits
804-640-182	2	J68857AC Primary Frequency Generator — Carrier Telephone	804-910-157	2	(J64011) — 11A and 11C Lookators and 11B Lookator Calibrator
804-640-183	1	J68857AD 308- to 64-KHz Synchronizing Frequency Converter Carrier Telephone	804-910-162	2	(J64034) — 34A Transmission Measuring Set
804-640-184	4	J68872A 64-KC Line Pilot Monitor Equipment	804-910-165	5	(J64037) — 37-Type Transmission Measuring Sets
804-640-185	6	LMX-2 Transmitting and Receiving Bay Equipment	804-910-168	4	(J64044) — 44A Transmission Measuring System for Transmission Measuring
804-640-186	1	LMX-2 C2B and C2C Transmitting and C2B and C2C Receiving Supergroup Bank Circuits	804-910-180	2	41B Transmission Measuring System
804-640-187	2	J68867 — L60A and L120A Terminals	804-910-181	2	40B Transmission Measuring System
804-640-188	3	Basic Message Connecting Link for Connection of L-Type Multiplex to TJ or TL Radio	804-910-182	5	43A Noise Measuring Systems for Use at Testboards and Voice Frequency Patching Bays
804-640-189	2	Basic Type A Wire-Line Entrance Link for Connection of L-Type Multiplex to Short Haul Radio Systems	804-911-153	4	(J64070) — 70-Type Power Meters for Transmission Measuring
804-640-190	2	Type A Wire-Line Entrance Link Connection of L-Type Multiplex to TD-2 Radio Equipped With FM Terminal Protection — Switching System	804-911-154	2	(J64072) — 72A Frequency Meter
804-640-191	2	Type B Wire-Line Entrance Link Transmission Circuit for Connection of L-Type Multiplex to TD-2 Radio — Equipped with FM Terminal Protection — Switching System	804-911-155	5	(J64730) — No. 2B Signaling Test Set
804-640-192	3	L-Type Multiplex-Broadband Restoration Pilot Supply, Service Restoration Pilot Detector, Detector Calibration Circuit, and 92-/468-KHz Supply for Restoration	804-911-157	4	(J64090) — 90-Type Carrier Frequency Test Equipment — Transmission Measuring
			804-911-158	2	(J64074) — 74A Wideband Power Meter
			804-911-159	1	(J64049) — 49A L-Multiplex Measuring System
			804-911-160	4	(J64091) — 91-Type Carrier Frequency Measuring System — Transmission Measuring
			804-911-163	4	(J64704) — Control Test Set — Signaling Testing and Maintenance Circuits
			804-911-180	1	Performance Requirements for J64092A — Carrier Transmission Maintenance System