

**NUMERICAL INDEX — DIVISION 415  
TD-3D MICROWAVE RADIO**

**1. GENERAL**

**1.01** This section provides an index of System-issued sections in Division 415.

**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 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.

**1.05** "Add" is the abbreviation for Addendum.

**2. LAYERS**

**2.01** This division is arranged in layers as follows:

- 415-0 Index
  - 1 Overall System
  - 2 Transmitter-Receiver Bays
  - 3 Transmitter-Receiver Bays
  - 4 Transmitter-Receiver Bays
  - 5 Transmitter-Receiver Bays
  - 6 Hot Standby/Space Diversity

**3. INDEX**

Section Number	Issue	Subject
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**415-0 INDEX**

● ♠ 415-000-000 49 Numerical Index Division 415 — TD-3D Microwave Radio

● 415-001-011 6 ETL

**415-1 OVERALL SYSTEM**

**Tests**

- 415-100-508 1 Received Carrier Power
- 415-100-509 1 Carrier Frequency Measurements

**415-2 TRANSMITTER-RECEIVER BAYS**

- 415-200-100 5 J68386J, K, L, M, N, and P — Description — General
- 415-200-300 2 Turnon and Turnoff Procedures
- 415-200-303 1 Operation With Portable Microwave Repeater
- 415-200-500 1 Tests — General
- 415-200-501 4 Level Diagrams

**415-3 TRANSMITTER-RECEIVER BAYS**

- 415-301-500 7 Overall Receiver Tests Using J68345A Test Set

Section Number	Issue	Subject
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- 415-301-501 6 Overall Transmitter Tests Using J68345A Test Set
- 415-301-502 8 Overall Repeater Tests Using J68345A Test Set

**Common Equipment Tests**

- 415-310-500 4 J68387R-2 Microwave Generator
- 415-310-501 1 J68387W 40-MHz Oscillator and Shift Modulator
- 415-310-502 2 Receiver Tests — Receiver Modulator — IF Pre-amplifier

**Transmitter Tests**

- 415-310-504 1 J68387U IF Driver Amplifier — Transmitter Modulator
- 415-310-505 1 Transmitter Amplifier
- 415-310-506 1 27B or 28B Integrated Circuit Replacement
- 415-310-507 2 Hot Standby or Hot Standby/Space Diversity — RF Switch Test and Replacement
- 415-310-508 1 Receiver Space Diversity — Diversity Switch
- 415-310-511 1 Transmitter-Receiver Bays — Common Equipment Tests — Impulse Noise Troubleshooting

415-310-512 2 Fade Margin Tests Using J68345A Test Set

415-310-513 1 Transmitter-Receiver Bays — Common Equipment Tests — Cross-Polarization Discrimination Test

415-310-520 2 IF Return Loss Measurements

415-310-521 1 J68386J, K, L, M, N, and P — Receiver Noise Figure Test Using the J68345A Test Set

**415-4 TRANSMITTER-RECEIVER BAYS**

- 415-401-500 6 Overall Receiver Tests Using J68392A Test Set
- 415-401-501 5 Overall Transmitter Tests Using J68392A Test Set

**Common Equipment Tests**

- 415-410-500 4 J68387R-2 Microwave Generator
- 415-410-501 1 J68387W 40-MHz Oscillator and Shift Modulator
- 415-410-502 2 Receiver Tests Using J68392A Test Set — Receiver Modulator — IF Pre-amplifier
- 415-410-504 1 J68387U IF Driver Amplifier — Transmitter Modulator
- 415-410-505 1 Transmitter Amplifier

**NOTICE**

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

## SECTION 415-000-000

Section Number	Issue	Subject
415-410-506	1	J68386J, K, L, M, N, and P — Tests Using the J68392A Test Set — 27B or 28B Integrated Circuit Replacement
415-410-507	2	Hot Standby or Hot Standby/Space Diversity — RF Switch Test and Replacement
415-410-508	1	Receiver Space Diversity — Diversity Switch
415-410-511	1	Impulse Noise Troubleshooting
415-410-512	3	Fade Margin Tests Using J68492A Test Set
415-410-513	1	Common Equipment Test Cross — Polarization Discrimination Test
415-410-520	1	J68386J, K, L, M, N and P — Transmitter and Receiver Tests Using the J68392A Test Set IF Return-Loss Measurement
415-410-521	1	J68386J, K, L, M, N, and P — Receiver Noise Figure Test Using the J68392A Test Set

### 415-5 TRANSMITTER-RECEIVER BAYS

#### Overall Transmitter Tests

415-501-500	6	J68386J, K, L, M, N, and P — Overall Receiver Tests Using the J68428A Test Set
415-501-501	5	J68386J, K, L, M, N, and P — Overall Transmitter Tests Using the J68428A Test Set

#### Common Equipment Tests

415-510-500	4	J68386J, K, L, M, N, and P — Using the J68428A Test Set — J68387R-2 Microwave Generator
415-510-501	1	J68387W 40-MHz Oscillator and Shift Modulator
415-510-502	2	J68386J, K, L, M, N, and P — Using the J68428A Test Set — Receiver Modulator — IF Preamplifier

Section Number	Issue	Subject
415-510-504	1	J68387U IF Driver Amplifier — Transmitter Modulator
415-510-505	1	Transmitter Amplifier
415-510-506	1	J68386J, K, L, M, N, and P — Tests Using the J68428A Test Set — 27B or 28B Integrated Circuit Replacement
415-510-507	2	Hot Standby or Hot Standby/Space Diversity — RF Switch Test and Replacement
415-510-508	1	Receiver Space Diversity — Diversity Switch
415-510-511	1	Transmitter-Receiver Bays — Common Equipment Tests — Impulse Noise Troubleshooting
415-510-512	2	Fade Margin Tests Using J68428A Test Set
415-510-513	1	Transmitter-Receiver Bays — Common Equipment Tests — Cross-Polarization Discrimination Test
415-510-520	2	J68386J, K, L, M, N, and P Transmitter-Receiver Bays — Transmitter and Receiver Tests Using the J68428A Test Set — IF Return-Loss Measurement
415-510-521	1	J68386J, K, L, M, N, and P — Receiver Noise Figure Test Using the J68428A Test Set

### 415-6 HOT STANDBY/SPACE DIVERSITY

#### Overall Switching

415-600-500	1	General
415-600-501	2	Tests
415-600-502	1	Testing and Replacement of the J68434B Pilot Detector

### 415-800 Antenna Arrangement

415-802-302	1	Waveguide-Antenna System Restoration — General
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