# Codan Radio – Technical Notes Revision History

\* In March 2013, all Technical Notes were updated with Codan Radio Communications branding.

| Tech Note | Revision | Description of Update | Date |
|---|---|---|---|
| TN100 | 2-0-0 | Changed the fuse rating from 10 Amp to 15 Amp in the troubleshooting section. | Jun-06 |
| | 3-0-0 | Product Discontinued. | Sep-08 |
| TN105 | 2-0-0 | Updated the diagram. | Jan-07 |
| | 3-0-0 | Format Update.  Updated for new Subrack. | Sep-08 |
| | 4-0-0 | Updated for new Subrack. | Aug-11 |
| | 5-0-0 | Updated for new Subrack and Power Amplifier. | Jul-12 |
| TN110 | 2-0-0 | Added Channel Selection Information and Updated for MT-4 product. | May-06 |
| | 3-0-0 | Format Update.  Updated for new Subrack. | Sep-08 |
| | 4-0-0 | Removed MT-3.  Added TXA Channel Select Switching Control | Aug-16 |
| TN120 | 2-0-0 | Added regulatory standards information | May-04 |
| | 3-0-0 | Product Discontinued. | Sep-08 |
| TN130 | 2-0-0 | Microphone audio was described as pin 1. Now corrected to say pin 2. | Mar-06 |
| | 3-0-0 | Added Microphone Connector Diagram. | Jun-06 |
| | 4-0-0 | Updated to reflect new dual port modulation modification tuning procedure. | Nov-06 |
| | 5-0-0 | Updated tuning procedures. | May-06 |
| | 6-0-0 | Format Update. | Sep-08 |
| | 7-0-0 | Product Discontinued. | May-14 |
| TN140 | 1-0-1 | Edited Description. | May-06 |
| | 2-0-0 | Updated Description. | Jan-07 |
| | 3-0-0 | Product Discontinued. | Sep-08 |
| TN160 | 2-0-0 | Updated Information to include MT-4E. | Jan-07 |
| | 3-0-0 | Format Update.  Updated for new Subrack and new System Regulator. | Sep-08 |
| | 4-0-0 | Updated Telex info. | Jul-12 |
| TN170 | 2-0-0 | Updated for new automatic USB driver install. | Jul-07 |
| | 3-0-0 | Updated for RSS patch upgrading. | Feb-08 |
| | 4-0-0 | Format Update. | Sep-08 |
| | 5-0-0 | Updated USB Driver Installation procedures. | Apr-10 |
| | 6-0-0 | Added UIC to installation procedures. | Dec-10 |
| | 7-0-0 | Updated USB Driver Installation procedures. | Aug-11 |
| | 8-0-0 | Updated administrator privileges statement. | Sep-11 |
| | 9-0-0 | Rebranded and Updated for Windows 7. | Jul-13 |
| | 10-0-0 | Rebranded. | May-14 |
| | 11-0-0 | Product Discontinued. | Aug-16 |
| TN175 | 2-0-0 | Format Update. | Sep-08 |
| | 3-0-0 | Rebranded and Updated Website reference. | May-14 |
| | 4-0-0 | Corrected to say Windows XP (and higher) | Aug-16 |
| TN210 | 2-0-0 | Product Discontinued. | May-06 |
| TN212 | 2-0-0 | Changed specifications to conform to RTCA DO-186A, TIA / EIA-603 and ETSI Section 8.8 EN300 676. | Jul-06 |
| | 3-0-0 | Updated Specifications, Revised Tuning Procedures, Edited Description. | May-06 |
| | 4-0-0 | Product Discontinued. | Apr-06 |
| TN213 | 2-0-0 | Updated Specifications. | Sep-06 |
| | 3-0-0 | Updated Specifications. | Jan-07 |
| | 4-0-0 | Format Update.  Updated Specifications. | Sep-08 |
| | 5-0-0 | Updated Specifications. | Apr-10 |

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| | 6-0-0 | Updated Specifications. | Sep-10 |
| | 7-0-0 | Updated Specifications. | Jul-13 |
| | 8-0-0 | Product Discontinued. | May-14 |
| TN220 | 2-0-0 | Updated Specifications. | Aug-06 |
| | 3-0-0 | Updated Specifications. | Dec-06 |
| | 4-0-0 | Updated Specifications. | May-06 |
| | 5-0-0 | Format Update.  Updated Specifications. | Sep-08 |
| | 6-0-0 | Product Discontinued. | May-14 |
| TN240 | 2-0-0 | Updated Specifications. | May-06 |
| | 3-0-0 | Product Discontinued. | Feb-06 |
| TN241 | 2-0-0 | Updated Specifications. | May-06 |
| | 3-0-0 | Product Discontinued. | Nov-06 |
| TN242 | 2-0-0 | Updated Specifications. | May-06 |
| | 3-0-0 | Product Discontinued. | Nov-06 |
| TN245 | 2-0-0 | Updated Specifications. | Aug-06 |
| | 3-0-0 | Revised tuning procedures. | Apr-06 |
| | 4-0-0 | Updated Specifications. | May-06 |
| | 5-0-0 | Updated current draw Specifications. | Mar-06 |
| | 6-0-0 | Product Discontinued. | Nov-06 |
| TN246 | 2-0-0 | Updated current draw Specifications. | Mar-06 |
| | 3-0-0 | Product Discontinued. | Nov-06 |
| TN247 | 2-0-0 | Updated model numbers. | Jul-07 |
| | 3-0-0 | Format Update.  Updated Specifications. | Sep-08 |
| | 4-0-0 | Updated Specifications. | Sep-10 |
| TN260 | 2-0-0 | Updated Specifications. | May-06 |
| | 3-0-0 | Product Discontinued. | Feb-06 |
| TN261 | 2-0-0 | Updated Specifications. | May-06 |
| | 3-0-0 | Product Discontinued. | Nov-06 |
| TN262 | 2-0-0 | Updated Specifications. | Aug-06 |
| | 3-0-0 | Updated Specifications. | Dec-06 |
| | 4-0-0 | Updated Specifications. | May-06 |
| | 5-0-0 | Product Discontinued. | Nov-06 |
| | 6-0-0 | Fixed Front End Tuning Instructions. | May-07 |
| TN265 | 2-0-0 | Updated Specifications. | Aug-06 |
| | 3-0-0 | Revised tuning procedures. | Apr-06 |
| | 4-0-0 | Updated Specifications. | May-06 |
| | 5-0-0 | Updated current draw Specifications. | Mar-06 |
| | 6-0-0 | Product Discontinued. | Nov-06 |
| TN266 | 2-0-0 | Updated current draw Specifications. | Mar-06 |
| | 3-0-0 | Product Discontinued. | Nov-06 |
| TN267 | 2-0-0 | Updated model numbers. | Jul-07 |
| | 3-0-0 | Format Update.  Updated Specifications. | Sep-08 |
| | 4-0-0 | Updated Specifications. | Oct-09 |
| | 5-0-0 | Updated Specifications. | Sep-10 |
| | 6-0-0 | Updated Specifications. Added New Frequency Bands. | Aug-11 |
| | 7-0-0 | Updated Specifications. | Nov-11 |
| TN280 | 2-0-0 | Updated Specifications. | May-06 |
| | 3-0-0 | Updated Tuning Procedures. | Mar-06 |
| | 4-0-0 | Product Discontinued. | Nov-06 |
| TN287 | 2-0-0 | Updated Specifications. | Mar-09 |

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| | 3-0-0 | Updated Specifications. | Oct-09 |
| | 4-0-0 | Updated Specifications. Added New Frequency Bands. | Aug-11 |
| | 5-0-0 | Updated Specifications. Added New Frequency Bands. | Jul-12 |
| TN290 | 2-0-0 | Updated Specifications. | May-06 |
| | 3-0-0 | Updated Tuning Procedures. | May-06 |
| | 4-0-0 | Product Discontinued. | Nov-06 |
| TN310 | 2-0-0 | Changed specifications to conform to RTCA DO-186A and TIA / EIA-603. | Jul-06 |
| | 3-0-0 | Updated Specifications, Revised Tuning Procedures, Edited Description. | May-06 |
| | 4-0-0 | Specification update. | May-06 |
| | 5-0-0 | Product Discontinued. | Sep-06 |
| TN311 | 2-0-0 | Updated Specifications. | Jan-07 |
| | 3-0-0 | Format Update.  Updated Specifications. | Sep-08 |
| | 4-0-0 | Updated Specifications. | Apr-10 |
| | 5-0-0 | Updated Specifications. | Sep-10 |
| | 6-0-0 | Product Discontinued. | May-14 |
| TN320 | 2-0-0 | Edited the Amplifier Alarm Adjustment and Output Power Adjustment Sections. | Jun-06 |
| | 3-0-0 | Updated Specifications. | May-06 |
| | 4-0-0 | Updated Specifications. | Jun-08 |
| | 5-0-0 | Format Update.  Updated Specifications. | Sep-08 |
| | 6-0-0 | Product Discontinued. | May-14 |
| TN342 | 2-0-0 | Changed the Amplifier Alarm Adjustment and Output Power Adjustment to reflect the new transmitter amplifier. Added the amplifier label. | Jun-06 |
| | 3-0-0 | Updated Specifications. | May-06 |
| | 4-0-0 | Updated Amplifier Information. | Jun-06 |
| | 5-0-0 | Product Discontinued. | Nov-06 |
| TN345 | 2-0-0 | Updated Specifications. | Aug-06 |
| | 3-0-0 | Revised tuning procedures. | Apr-06 |
| | 4-0-0 | Updated Specifications. | May-06 |
| | 5-0-0 | Updated Amplifier Information. | Jun-06 |
| | 6-0-0 | Product Discontinued. | Nov-06 |
| TN346 | 2-0-0 | Updated current draw Specifications. | Mar-06 |
| | 3-0-0 | Updated Amplifier Information. | Jun-06 |
| | 4-0-0 | Product Discontinued. | Nov-06 |
| TN347 | 2-0-0 | Updated model numbers. | Jul-07 |
| | 3-0-0 | Format Update.  Updated Specifications. | Sep-08 |
| | 4-0-0 | Updated Specifications. | Aug-11 |
| | 5-0-0 | Updated Specifications. | May-14 |
| TN362 | 2-0-0 | Changed the Amplifier Alarm Adjustment and Output Power Adjustment to reflect the new transmitter amplifier. Added the amplifier label. | Jun-06 |
| | 3-0-0 | Updated Specifications. | May-06 |
| | 4-0-0 | Updated Tuning Procedures. | Sep-06 |
| | 5-0-0 | Product Discontinued. | Nov-06 |
| TN365 | 2-0-0 | Updated Specifications. | Aug-06 |
| | 3-0-0 | Revised tuning procedures. | Apr-06 |
| | 4-0-0 | Updated Specifications. | May-06 |
| | 5-0-0 | Updated Tuning Procedures. | Sep-06 |
| | 6-0-0 | Product Discontinued. | Nov-06 |
| TN366 | 2-0-0 | Updated current draw Specifications. | Mar-06 |
| | 3-0-0 | Updated Tuning Procedures. | Sep-06 |
| | 4-0-0 | Product Discontinued. | Nov-06 |

| TN367 | 2-0-0 | Updated model numbers. | Jul-07 |
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| | 3-0-0 | Format Update.  Updated Specifications. | Sep-08 |
| | 4-0-0 | Updated Specifications. Added New Frequency Bands. | Aug-11 |
| | 5-0-0 | Updated Specifications. | May-14 |
| TN380 | 2-0-0 | Added 12.5 Khz channel spacing to the specifications. | Jun-06 |
| | 3-0-0 | Updated Specifications. | May-06 |
| | 4-0-0 | Updated Tuning Procedures. | May-06 |
| | 5-0-0 | Product Discontinued. | Nov-06 |
| TN387 | 2-0-0 | Updated Specifications. | Oct-09 |
| | 3-0-0 | Updated Specifications. | Apr-10 |
| | 4-0-0 | Updated Specifications. | Aug-11 |
| | 5-0-0 | Updated Specifications. Added New Frequency Bands. | Jul-12 |
| | 6-0-0 | Updated Specifications. | May-14 |
| TN390 | 2-0-0 | Updated Specifications. | Jun-06 |
| | 3-0-0 | Updated Specifications. | May-06 |
| | 4-0-0 | Updated Tuning Procedures. | Mar-06 |
| | 5-0-0 | Product Discontinued. | Nov-06 |
| TN440 | 2-0-0 | Added new tuning procedures. | Jan-06 |
| | 3-0-0 | Updated Specifications. | Aug-06 |
| | 4-0-0 | New specifications and tuning procedures. | May-06 |
| | 5-0-0 | Format Update. | Sep-08 |
| | 6-0-0 | Updated Specifications and Tuning Procedures for 6 Watt models. | Aug-11 |
| | 7-0-0 | Product Discontinued. | Jul-12 |
| TN441 | 2-0-0 | Updated Specifications. Added New Frequency Bands. | Jul-13 |
| TN460 | 2-0-0 | Updated Specifications and Added Tuning Procedures. | May-06 |
| | 3-0-0 | Format Update. | Sep-08 |
| | 4-0-0 | Updated Specifications. | Oct-09 |
| | 5-0-0 | Updated Specifications. | Jul-12 |
| | 6-0-0 | Updated Specifications. | Jul-13 |
| | 7-0-0 | Product Discontinued. | May-14 |
| TN490 | 2-0-0 | Removed Lowband VHF.  Added ALARM Pin active voltage. | Aug-16 |
| TN491 | 2-0-0 | Removed Lowband VHF.  Added ALARM Pin active voltage. | Aug-16 |
| TN500 | 2-0-0 | Format Update.  Updated for new Subrack. | Sep-08 |
| | 3-0-0 | Updated for new Subrack. | Aug-11 |
| | 4-0-0 | Updated DB25 Info. | Jul-12 |
| | 5-0-0 | Further updated DB25 info for IP-224. | Aug-16 |
| TN510 | 2-0-0 | Product Discontinued. | Feb-06 |
| TN520 | 2-0-0 | Edited Description. | Jan-07 |
| | 3-0-0 | Format Update. | Sep-08 |
| TN530 | 2-0-0 | Edited Description. | Jan-07 |
| | 3-0-0 | Edited Description. | Feb-08 |
| | 4-0-0 | Format Update. | Sep-08 |
| TN540 | 2-0-0 | Product Discontinued. | Feb-06 |
| TN600 | 2-0-0 | Added new Block Diagrams. | Dec-06 |
| | 3-0-0 | Fixed block diagram error. | Apr-06 |
| | 4-0-0 | Removed References to AC-3L-96. | Sep-06 |
| | 5-0-0 | Format Update. Added potentiometer and pin designations. | Sep-08 |
| | 6-0-0 | Removed CTCSS Rotart Select Switch option. | May-14 |
| TN630 | 2-0-0 | Product Discontinued. | Jun-07 |
| TN640 | 2-0-0 | Format Update. | Sep-08 |

| TN650 | 2-0-0 | Edited Description. | May-06 |
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| | 3-0-0 | Edited Description. | Jan-07 |
| | 4-0-0 | Edited Description. | Jan-07 |
| | 5-0-0 | Format Update. | Sep-08 |
| TN651 | 2-0-0 | Edited Description. | Jan-07 |
| | 3-0-0 | Added Current Draw Specification. | Feb-07 |
| | 4-0-0 | Format Update. | Sep-08 |
| | 5-0-0 | Updated Screenshots. | Nov-09 |
| | 6-0-0 | Product Discontinued. | Mar-13 |
| TN652 | 2-0-0 | Added Audio Routing and System Examples. | Aug-16 |
| TN655 | 2-0-0 | Edited Description. | Jan-07 |
| | 3-0-0 | Format Update. | Sep-08 |
| TN660 | 2-0-0 | Removed all reference to proprietary interface. | Aug-16 |
| TN710 | 2-0-0 | Added new Duplexer Specifications. | Dec-06 |
| | 3-0-0 | Added new cases. | Apr-06 |
| | 4-0-0 | Changed part numbers and drawing to reflect Transportable case changes. | Jul-06 |
| | 5-0-0 | Updated Information and added Satellite Telephone Information. | Dec-06 |
| | 6-0-0 | Format Update.  Removed Globalstar information. | Sep-08 |
| | 7-0-0 | Added lockable latches. | May-10 |
| | 8-0-0 | Added New Frequency Bands. | Jul-12 |
| | 9-0-0 | Removed Satellite Telephone Information.  Updated Specifications. | May-14 |
| | 10-0-0 | Removed Black Case. | Aug-16 |
| TN720 | 2-0-0 | Format Update. | Sep-08 |
| | 3-0-0 | Removed Orange Cases. | May-10 |
| | 4-0-0 | Added New Frequency Bands. | Jul-12 |
| | 5-0-0 | Updated Specifications. | May-14 |
| | 6-0-0 | Added temperature, duty cycle and battery information. Added HiveNet. | Aug-16 |
| TN730 | 2-0-0 | Added New Frequency Bands. | Jul-12 |
| | 3-0-0 | Updated Specifications. | May-14 |
| TN735 | 2-0-0 | Added New Frequency Bands. | Jul-12 |
| | 3-0-0 | Updated Specifications. Added New Vizor Name. | May-14 |
| | 4-0-0 | Removed AM and Lowband VHF information. | Aug-16 |
| TN750 | 2-0-0 | Removed 3 RU Height Case. | Feb-06 |
| | 3-0-0 | Updated Information and Added 9 RU Height Case. | Dec-06 |
| | 4-0-0 | Format Update. | Sep-08 |
| | 5-0-0 | Added New Case Sizes. | Jul-13 |
| | 6-0-0 | Added metric measurements. | May-14 |
| TN790 | 2-0-0 | Format Update.  Added new Solar Panel Kit and Antenna Mast System. | Sep-08 |
| | 3-0-0 | Updated battery to AGM. | May-10 |
| | 4-0-0 | Added 100 Ah Battery. | Jul-13 |
| | 5-0-0 | Added metric measurements. | May-14 |
| TN800 | 1-1-0 | Edited description. | Apr-06 |
| | 2-0-0 | Format Update. Added pin definitions. | Sep-08 |
| | 3-0-0 | Updated for new label and pin descriptions. | Aug-11 |
| | 4-0-0 | Corrected text issues. | Jul-12 |
| | 5-0-0 | Updated for new labels and paging information. | Aug-13 |
| TN810 | 2-0-0 | Added the SM-3 front panel rotary switch functions and parameters. | Jul-06 |
| | 3-0-0 | Updated for current products available. | Jan-07 |
| | 4-0-0 | Added MT-4E Rotary Switch A/D Receive Mode. | Jun-07 |
| | 5-0-0 | Product Discontinued. | Sep-08 |

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| **TN811** | 2-0-0 | Added the main power switch. | May-10 |
| | 3-0-0 | Updated front panel. | Nov-10 |
| **TN820** | 2-0-0 | Added transmitter load warning. | Jun-06 |
| | 3-0-0 | Format Update. | Sep-08 |
| | 4-0-0 | <span style="color:red">Product Discontinued.</span> | May-14 |
| **TN830** | 2-0-0 | New AC Power Supply. | Aug-06 |
| | 3-0-0 | Updated Specifications. | Apr-06 |
| | 3-0-1 | Updated part numbers. | Apr-06 |
| | 4-0-0 | Format Update. | Sep-08 |
| | 5-0-0 | Removed "non-polarity sensitive". | Feb-09 |
| | 6-0-0 | Updated part numbers and specifications. | May-14 |
| | 7-0-0 | New AC Power Supply.  Updated all specifications. | Aug-16 |
| **TN836** | 2-0-0 | Updated part numbers and specifications. | May-14 |
| | 3-0-0 | Changed the AC power cord comments. | Aug-16 |
| **TN840** | 2-0-0 | Removed Reference to discontinued product. | Mar-06 |
| | 3-0-0 | Edited Description. | Jan-07 |
| | 4-0-0 | Format Update.  Added new diagrams. | Sep-08 |
| **TN850** | 2-0-0 | <span style="color:red">Product Discontinued.</span> | Feb-06 |
| **TN855** | 2-0-0 | Added Vega Programming and tuning procedures. | Jul-06 |
| | 3-0-0 | Revised tuning procedures. | May-06 |
| | 4-0-0 | Updated Information. | Aug-06 |
| | 5-0-0 | Updated to include new software and monitor connection. | Nov-06 |
| | 6-0-0 | Revised tuning procedures. | Mar-06 |
| | 7-0-0 | Revised tuning procedures. | Jan-07 |
| | 8-0-0 | Format Update.  Updated for new Subrack. | Sep-08 |
| | 9-0-0 | Updated jumpers for new subrack. | Nov-10 |
| | 10-0-0 | Updated Telex info, jumpers and tuning procedures. | Jul-12 |
| | 11-0-0 | Updated tuning procedures. | Aug-16 |
| **TN856** | 2-0-0 | Revised tuning procedures. | Jan-07 |
| | 3-0-0 | Revised tuning procedures. | Jan-08 |
| | 4-0-0 | Format Update.  Updated for new Subrack. | Sep-08 |
| | 5-0-0 | Updated jumpers for new subrack. | Nov-10 |
| | 6-0-0 | Updated Telex info, jumpers and tuning procedures. | Jul-12 |
| | 7-0-0 | Updated tuning procedures. | Aug-16 |
| **TN860** | 2-0-0 | Edited Description. | May-06 |
| | 3-0-0 | <span style="color:red">Product Discontinued.</span> | Jan-07 |
| **TN870** | 2-0-0 | Format Update. | Sep-08 |
| **TN900** | 2-0-0 | Updated to include revisions to test procedures. | Jan-08 |
| | 3-0-0 | Format Update. | Sep-08 |
| | 4-0-0 | Updated System Regulator switch. | May-10 |
| | 5-0-0 | Updated System Regulator. | Nov-10 |
| | 6-0-0 | <span style="color:red">Product Discontinued.</span> | May-14 |
| **TN910** | 2-0-0 | Format Update. | Sep-08 |
| | 3-0-0 | Updated System Regulator switch. | May-10 |
| | 4-0-0 | Updated System Regulator. | Nov-10 |
| | 5-0-0 | <span style="color:red">Product Discontinued.</span> | May-14 |
| **TN950** | 1-1-0 | Updated to reflect new IFR 2975 firmware upgrades. | Jan-06 |
| | 1-2-0 | Updated to reflect setup files now available on website. | Apr-06 |
| | 1-3-0 | Added warning note about software bug in modulation fidelity test. | Nov-06 |
| | 1-4-0 | Updated to reflect new setup files and minor edits. | Apr-06 |

| | 2-0-0 | Updated for MT-4R and MT-4D only. | Jan-07 |
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| | 3-0-0 | Product Discontinued. | Sep-08 |

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| **EN100** | 2-0-0 | Format Update. | Sep-08 |
| | 3-0-0 | Updated to ISO 9001:2008. | Jul-11 |
| **EN110** | 2-0-0 | Format Update. | Sep-08 |
| | 3-0-0 | Updated factory GPS Reference. | Jul-11 |
| **EN120** | 2-0-0 | Format Update. | Sep-08 |
| **EN130** | 2-0-0 | Updated to completed project. | Jul-11 |