

NOTES:

- 1) ALL WIRE IAW MIL-W-22759/34 UNLESS OTHERWISE SPECIFIED.  
2) ALL CABLE IAW MIL-C-27500 UNLESS OTHERWISE SPECIFIED.  
3) ALL JUMPER WIRE 22 AWG UNLESS OTHERWISE NOTED.  
4) ALL COAXIAL CABLE IAW MIL-C-17 UNLESS OTHERWISE SPECIFIED.  
5) PERFORM ALL WORK IAW STANDARD PRACTICES OF AC 43.13-1B/2A (OR LATER APPLICABLE REVISION):

AIRCRAFT HARDWARE AC 43.13-1B CHAPTER 7  
AIRCRAFT ELECTRICAL SYSTEMS AC 43.13-1B CHAPTER 11  
RADIO INSTALLATIONS AC 43.13-2A CHAPTER 2  
ANTENNA INSTALLATIONS AC 43.13-2A CHAPTER 3  
ADDING OR RELOCATING INSTRUMENTS AC 43.13-2A CHAPTER 11

- 6) DENOTES MIL-S-81824/1-X SPLICE UNLESS OTHERWISE SPECIFIED.

- 7) THE MEMORY UP/DOWN PUSH BUTTONS AND BAND (TDFM-7300 AND TDFM-7300-3 ONLY) ARE OPTIONAL.

- 8) THIS INPUT IS FOR BOTH 28 VDC AND 5 VAC PANEL LIGHTING. SELECT THE APPROPRIATE VOLTAGE IN THE CONFIGURATION MENU. SEE PARA 2.18 OF INSTALL MANUAL.

- 9) PART OF OPTIONS 2 AND 4 CONNECTION, NOT TO BE INSTALLED IF OPTIONS 2 AND 4 IS NOT INSTALLED.

- 10) CONNECT TO THE APPROPRIATE AIRCRAFT DIMMING BUS.

- 11) FOR ALTERNATE AUDIO PANELS REFER TO THE AUDIO PANEL INSTALLATION MANUAL.

- 12) ITEM 5 IS AN ALTERNATE OPTION TO ITEM 4.

- 13) ITEM 7 IS AN ALTERNATE OPTION TO ITEM 6.

- 14) USE ANY AVAILABLE SPACE ON THE 28 VDC BUS PP12.

- 15) REFER TO TECHNISONIC INDUSTRIES LTD. INSTALLATION & OPERATING INSTRUCTIONS TIL DOCUMENT No. 09RE404 (TDFM-136A) FOR MODEL VARIATIONS, OR TIL DOCUMENT No. 05RE375 (TDFM-7000), OR TIL DOCUMENT No. 08RE389 (TDFM-7300 AND TDFM-7300-3) FOR MODEL VARIATIONS. REFER TO TECHNISONIC INDUSTRIES LTD. INSTALLATION & OPERATING INSTRUCTIONS, TIL DOCUMENT No. 06RE377 (RC-7000), OR TIL DOCUMENT No. 08RE400 (RC-7300 ) FOR MODEL VARIATIONS.

- 16) PERFORM POST INSTALLATION EMI TEST IAW TECHNISONIC INSTALLATION & OPERATING INSTRUCTIONS TIL DOCUMENT No. 05RE375 (TDFM-7000) SECTION 3.18, OR TIL DOCUMENT No. 08RE389 (TDFM-7300 AND TDFM-7300-3) SECTION 3.19, OR 09RE404 (TDFM-136A) APPENDIX "A".

- 17) QTY 1 REQUIRED FOR INSTALLATION. QTY 1 REQUIRED FOR SPARE.

- 18) REFER TO APPLICABLE TECHNISONIC INDUSTRIES INSTALLATION & OPERATING INSTRUCTIONS FOR ANTENNA AND TUNER SELECTION.

- 19) TDFM-7300 AND TDFM-7300-3 ONLY.

| QTY  |      |      |      |      |      |      | ITEM | PART NUMBER  | DESCRIPTION                                      | SPEC                           | MATERIAL or ALTERNATE P/N |
|------|------|------|------|------|------|------|------|--------------|--------------------------------------------------|--------------------------------|---------------------------|
| -007 | -006 | -005 | -004 | -003 | -002 | -001 |      |              |                                                  |                                |                           |
| -    | -    | -    | -    | -    | 1    | 1    | 1    | 051240-()    | TDFM-7000 VHF/UHF/800 COMMUNICATIONS TRANSCEIVER | TECHNISONIC INDUSTRIES LIMITED | -                         |
| 1    | 1    | 1    | 1    | 1    | 1    | 1    | 2    | CI-292-3     | VHF ANTENNA, 136 TO 174 MHZ                      | COMANT INDUSTRIES              | -                         |
| -    | (1)  | (1)  | (1)  | (1)  | (1)  | (1)  | 3    | CI-275       | UHFLO ANTENNA, 403 TO 470 MHZ                    | COMANT INDUSTRIES              | -                         |
| -    | (1)  | (1)  | (1)  | (1)  | (1)  | (1)  | 4    | CI-275       | UHFHI ANTENNA, 450 TO 512 MHZ                    | COMANT INDUSTRIES              | -                         |
| -    | (1)  | (1)  | (1)  | (1)  | (1)  | (1)  | 5    | CI-285       | VHFHI (II) ANTENNA, 450 TO 520 MHZ               | COMANT INDUSTRIES              | -                         |
| -    | (1)  | (1)  | (1)  | (1)  | (1)  | (1)  | 6    | CI-306       | 800 ANTENNA, 806 TO 870 MHZ                      | COMANT INDUSTRIES              | -                         |
| -    | (1)  | (1)  | (1)  | (1)  | (1)  | (1)  | 7    | CI-285       | 800/700 (II) ANTENNA, 700 TO 870 MHZ             | COMANT INDUSTRIES              | -                         |
| -    | 2    | 2    | 2    | 2    | 2    | 2    | 8    | HA21-6U3     | FUSE, 6.3 AMPS                                   | KLIXON                         | OR EQUIVALENT             |
| -    | -    | -    | -    | -    | 1    | -    | 9    | 051242-()    | RC-7000 REMOTE CONTROL HEAD                      | TECHNISONIC INDUSTRIES LIMITED | -                         |
| -    | 2    | -    | 2    | -    | 2    | -    | 10   | HA21-2U5     | FUSE, 2.5 AMP                                    | KLIXON                         | OR EQUIVALENT             |
| -    | -    | -    | -    | -    | 1    | 1    | 11   | 059615-1     | IN-7000 INSTALLATION KIT                         | TECHNISONIC INDUSTRIES LIMITED | -                         |
| -    | -    | -    | -    | -    | 1    | -    | 12   | 029355-1     | IN-RC6 INSTALLATION KIT                          | TECHNISONIC INDUSTRIES LIMITED | -                         |
| -    | (1)  | (1)  | (1)  | (1)  | (1)  | (1)  | 13   | FLX-30508    | ANTENNA / ANTENNA TUNER 30 TO 50 MHZ             | FOXTRONIX                      | -                         |
| -    | (1)  | (1)  | (1)  | (1)  | (1)  | (1)  | 14   | S65-8282-34  | ANTENNA / ANTENNA TUNER 30 TO 50 MHZ             | Sensor Systems                 | -                         |
| -    | 2    | 2    | 2    | 2    | 2    | 2    | 15   | 1N4006       | DIODE                                            | -                              | -                         |
| -    | 1    | 1    | 1    | 1    | -    | -    | 16   | 061245-()    | TDFM-7300 VHFLO/VHF/UHF/800 TRANSCEIVER          | TECHNISONIC INDUSTRIES LIMITED | -                         |
| -    | 1    | -    | 1    | -    | 1    | -    | 17   | 061247-()    | RC-7300 REMOTE CONTROL HEAD                      | TECHNISONIC INDUSTRIES LIMITED | -                         |
| -    | 1    | 1    | 1    | 1    | -    | -    | 18   | 069726-1     | IN-7300 INSTALLATION KIT                         | TECHNISONIC INDUSTRIES LIMITED | -                         |
| 1    | -    | -    | -    | -    | -    | -    | 19   | 091258-()-() | TDFM-136A VHF FM COMMUNICATIONS TRANSCEIVER      | TECHNISONIC INDUSTRIES LIMITED | -                         |
| 1    | -    | -    | -    | -    | -    | -    | 20   | 949474-1     | IN-150 INSTALLATION KIT                          | TECHNISONIC INDUSTRIES LIMITED | -                         |
| 2    | -    | -    | -    | -    | -    | -    | 21   | HA21-3U0     | FUSE, 3 AMP                                      | KLIXON                         | OR EQUIVALENT             |
| -    | 1    | 1    | -    | -    | -    | -    | 22   | CI-292-1     | VHF ANTENNA 118 TO 137 MHZ                       | COMANT INDUSTRIES              | -                         |

## POWER REQUIREMENT

| UNIT                                  | MINIMUM CURRENT DRAW | MAXIMUM CURRENT DRAW |
|---------------------------------------|----------------------|----------------------|
| TDFM-136A TRANSCEIVER                 | 700 mA               | 2.5 A                |
| TDFM-7000 / 7300 / 7300-3 TRANSCEIVER | 500 mA               | 5 A                  |
| RC-7000 / 7300 REMOTE CONTROLLER      | 75 mA                | 150 mA               |

## CONFIGURATION TABLE

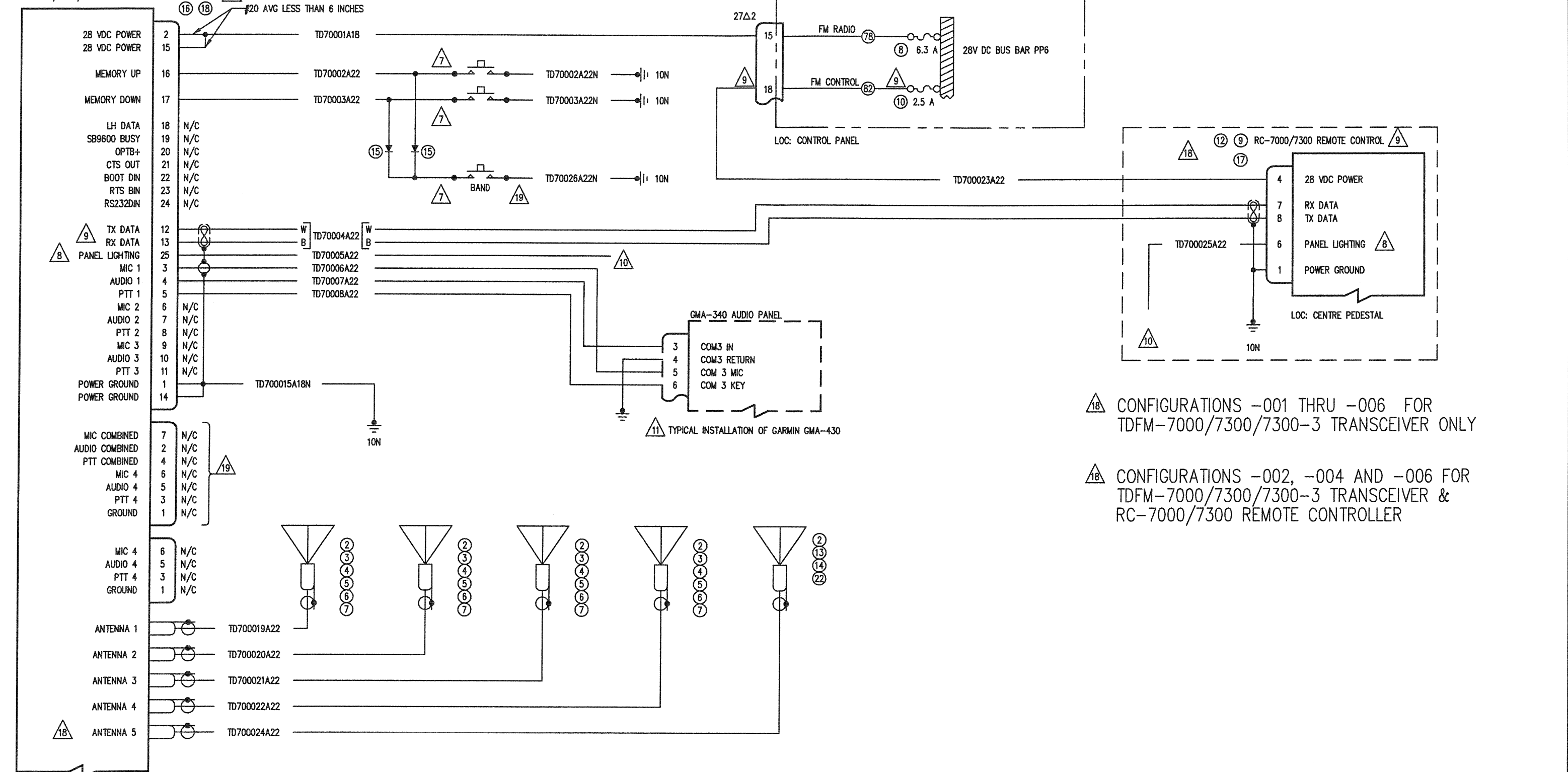
| CONFIGURATION | MODEL            | DESCRIPTION                                            |
|---------------|------------------|--------------------------------------------------------|
| -001          | EUROCOPTER AS350 | TRANSCEIVER TDFM-7000 ONLY.                            |
| -002          | EUROCOPTER AS350 | TRANSCEIVER TDFM-7000 AND REMOTE CONTROLLER RC-7000.   |
| -003          | EUROCOPTER AS350 | TRANSCEIVER TDFM-7300 ONLY.                            |
| -004          | EUROCOPTER AS350 | TRANSCEIVER TDFM-7300 AND REMOTE CONTROLLER RC-7300.   |
| -005          | EUROCOPTER AS350 | TRANSCEIVER TDFM-7300-3 ONLY.                          |
| -006          | EUROCOPTER AS350 | TRANSCEIVER TDFM-7300-3 AND REMOTE CONTROLLER RC-7300. |
| -007          | EUROCOPTER AS350 | TRANSCEIVER TDFM-136A ONLY.                            |

| REVISION STATUS |          |
|-----------------|----------|
| SHEET           | REVISION |
| 01              | C        |
| 02              | C        |
| 03              | A        |

| C                                                                                                                         | B                                                                                  | A                                                                                                                            | N/C       | REVISION    | THE DESIGN DEPICTED IN THIS DRAWING IS THE EXCLUSIVE PROPERTY OF AVONICS DESIGN SERVICES LTD. AND IN THE ACCEPTANCE OF THIS DRAWING THE RECIPIENT AGREES THAT IT WILL NOT BE USED FOR THE PURPOSE OF MANUFACTURE OR PROCUREMENT OF THE PART OR ASSEMBLY SHOWN HEREIN REPRODUCED OR OTHERWISE COPIED OR DISCLOSED TO ANY OTHER PERSON OR PARTY EXCEPT AS AUTHORIZED IN WRITING BY AVONICS DESIGN SERVICES LTD. | AVONICS DESIGN SERVICES Ltd.             |                   |               |                      |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------|---------------|----------------------|
| ADD ITEM 22; AMEND NOTE 18; CLARIFY ITEM 2 BY ADDING "-3" TO P/N; REVISE BOM / CONFIG TABLE; AND UPDATE REV STATUS TABLE. | ADDED OPTION 3 & SHT 3. BOM, NOTES, POWER REQTS & CFG TABLE UPDATES. TITLE CHANGE. | ADD ALT P/N'S FOR BOM ITEMS 1,9,11,12. ADD ITEM 13-18. AMEND CONFIG TABLE WITH TDFM/RC-7300. AMEND NOTE 15. ADD NOTES 18,19. |           | DESCRIPTION |                                                                                                                                                                                                                                                                                                                                                                                                               | MIDLAND, ONTARIO, CANADA.                |                   |               |                      |
|                                                                                                                           |                                                                                    |                                                                                                                              |           |             |                                                                                                                                                                                                                                                                                                                                                                                                               | TiL FM TRANSCEIVER<br>INSTALL, EC AS-350 |                   |               |                      |
| R. MACDONALD                                                                                                              | R. MACDONALD                                                                       | R. MACDONALD                                                                                                                 | T. WILCOX | DRAWN       |                                                                                                                                                                                                                                                                                                                                                                                                               | SIZE                                     | NEXT HIGHER ASSY: | DRAWING No.   | CAD FILE #WD06010C01 |
| 12/05/14                                                                                                                  | 09/06/29                                                                           | 09/04/14                                                                                                                     | 06/0/15   | DATE        |                                                                                                                                                                                                                                                                                                                                                                                                               | B                                        | -                 | WD06010       |                      |
|                                                                                                                           | C. HEIDEL                                                                          | R. GOW                                                                                                                       | C. VOICU  | APPROVED    |                                                                                                                                                                                                                                                                                                                                                                                                               | SCALE:                                   | NTS               |               |                      |
|                                                                                                                           |                                                                                    |                                                                                                                              |           |             |                                                                                                                                                                                                                                                                                                                                                                                                               | DATE: 06/08/11                           | DRAWN: T. Wilcox  | SHEET: 1 OF 3 |                      |

AVONICS DESIGN  
SERVICES LTD  
RELEASED

TDFM-7000/7300/7300-3 TRANSCEIVER



LOC: CENTRE PEDESTAL

△18 CONFIGURATIONS -001 THRU -006 FOR TDFM-7000/7300/7300-3 TRANSCEIVER ONLY

△18 CONFIGURATIONS -002, -004 AND -006 FOR TDFM-7000/7300/7300-3 TRANSCEIVER & RC-7000/7300 REMOTE CONTROLLER

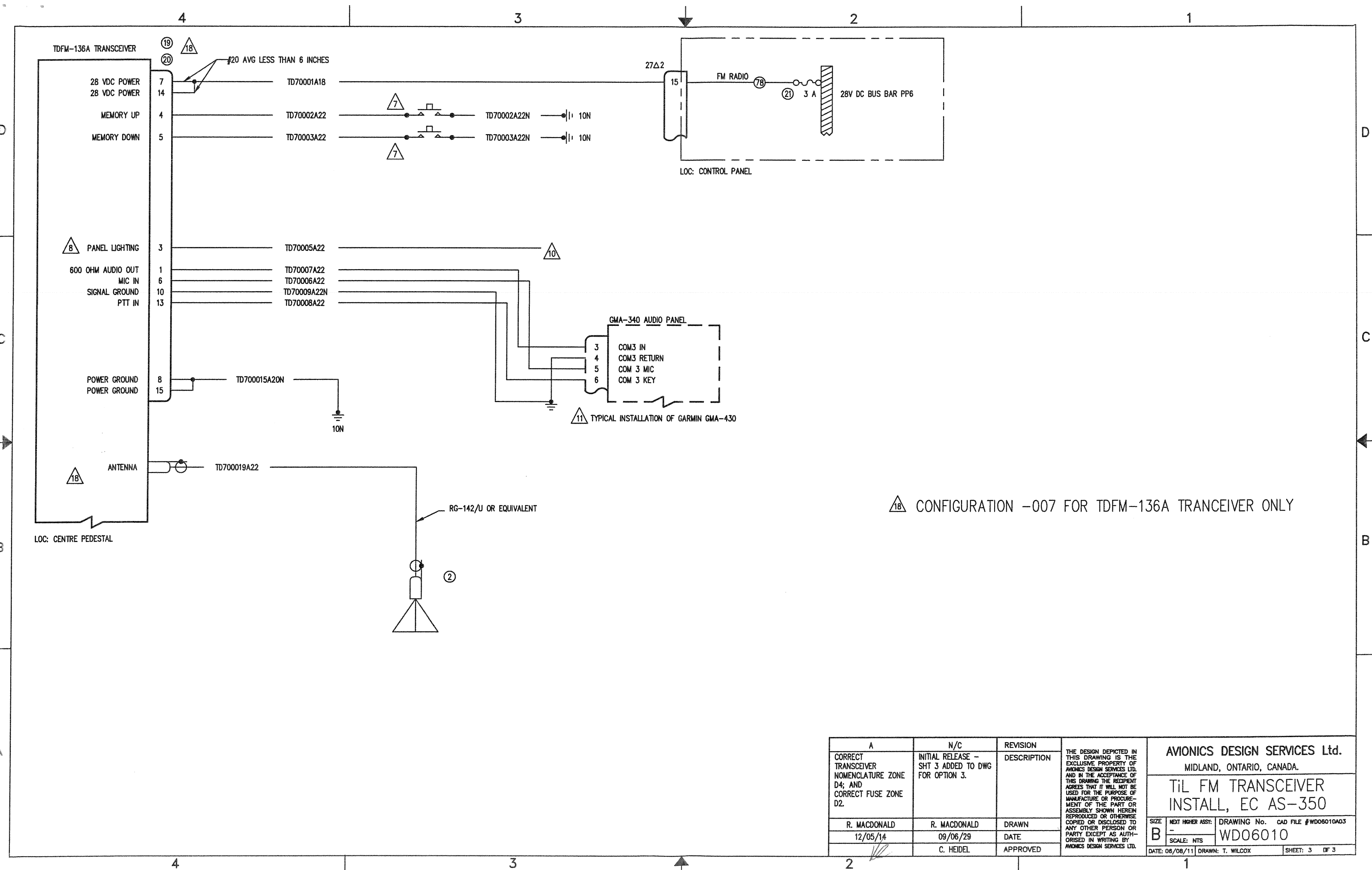
| C                                                                                                            | B                                                    | A                                                                | N/C                   | REVISION | DESCRIPTION |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------|-----------------------|----------|-------------|
| ADD ITEM 22 AT AT BAND 5 ANTENNA; ADD ITEM 2 TO CORRECT AT BAND 5 ANTENNA; AND ADD TDFM-7300-3 NOMENCLATURE. | UPDATED TITLE BLOCK FOR SHT 2 OF 3 AND TITLE CHANGE. | ADD ANTENNA 5 AND COAX. ADD TDFM/RC-7300 IDENT. ADD BAND SWITCH. |                       |          |             |
| R. MACDONALD<br>12/05/14                                                                                     | R. MACDONALD<br>09/04/14                             | R. MACDONALD<br>09/04/14                                         | T. WILCOX<br>06/09/15 | DRAWN    | DATE        |
|                                                                                                              | C. HEIDEL                                            | R. GOW                                                           | C. VOICU              | APPROVED |             |

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AVIONICS DESIGN SERVICES Ltd.  
MIDLAND, ONTARIO, CANADA.

TIL FM TRANSCEIVER  
INSTALL, EC AS-350

SIZE: B  
NEXT HIGHER ASSY: -  
SCALE: NTS  
DRAWING No. WDO6010  
CAD FILE #WDO6010C02  
DATE: 08/08/11  
DRAWN: T. WILCOX  
SHEET: 2 OF 3



| A                                                                   |  | N/C                                                | REVISION    | THE DESIGN DEPICTED IN THIS DRAWING IS THE EXCLUSIVE PROPERTY OF AVIONICS DESIGN SERVICES LTD. AND IN THE ACCEPTANCE OF THIS DRAWING THE RECIPIENT AGREES THAT IT WILL NOT BE USED FOR THE PURPOSE OF MANUFACTURE OR PROCUREMENT OF THE PART OR ASSEMBLY SHOWN HEREIN REPRODUCED OR OTHERWISE COPIED OR DISCLOSED TO ANY OTHER PERSON OR PARTY EXCEPT AS AUTHORIZED IN WRITING BY AVIONICS DESIGN SERVICES LTD. | AVIONICS DESIGN SERVICES Ltd.         |               |
|---------------------------------------------------------------------|--|----------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------|
| CORRECT TRANSCEIVER NOMENCLATURE ZONE D4; AND CORRECT FUSE ZONE D2. |  | INITIAL RELEASE - SHT 3 ADDED TO DWG FOR OPTION 3. | DESCRIPTION |                                                                                                                                                                                                                                                                                                                                                                                                                 | MIDLAND, ONTARIO, CANADA.             |               |
| R. MACDONALD                                                        |  | R. MACDONALD                                       | DRAWN       |                                                                                                                                                                                                                                                                                                                                                                                                                 | TIL FM TRANSCEIVER INSTALL, EC AS-350 |               |
| 12/05/14                                                            |  | 09/06/29                                           | DATE        |                                                                                                                                                                                                                                                                                                                                                                                                                 | DRAWING No. CAD FILE #WD06010A03      |               |
| C. HEIDEL                                                           |  |                                                    | APPROVED    | SIZE B                                                                                                                                                                                                                                                                                                                                                                                                          | SCALE: NTS                            | WD06010       |
|                                                                     |  |                                                    |             | DATE: 08/08/11                                                                                                                                                                                                                                                                                                                                                                                                  | DRAWN: T. WILCOX                      | SHEET: 3 OF 3 |