


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 OEM SPM OR 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.

 THE MEMORY UP/DOWN PUSH BUTTONS AND BAND ARE OPTIONAL.

 THIS INPUT IS FOR BOTH 28 VDC AND 5 VAC PANEL LIGHTING. SELECT THE APPROPRIATE VOLTAGE IN THE CONFIGURATION MENU. SEE PARA 2.19 OF INSTALL MANUAL.

 ITEM 25 IS INSTALLED WITH RC-9000 OPTION. ITEM 9 IS NOT TO BE INSTALLED IF RC-9000 OPTION IS NOT INSTALLED.

 CONNECT TO THE APPROPRIATE AIRCRAFT DIMMING BUS.


 FOR ALTERNATIVE AUDIO PANELS REFER TO THE AUDIO PANEL INSTALLATION MANUAL.

 ITEM 10 IS AN OPTIONAL VARIANT OF ITEM 9.

 ITEM 11 IS AN OPTIONAL VARIANT OF ITEM 9.

 USE ANY AVAILABLE SPACE ON THE 28 VDC BUS.

 REFER TO TECHNISONIC INDUSTRIES LTD. INSTALLATION & OPERATING INSTRUCTIONS TIL DOCUMENT No. 11RE442 (TDFM-9000), 13RE483 (TDFM-9100), 13RE472 (TDFM-9200), or 13RE471 (TDFM-9300) FOR MODEL VARIATIONS.

 PERFORM POST INSTALLATION EMI TEST IAW TECHNISONIC INSTALLATION & OPERATING INSTRUCTIONS TIL DOCUMENT No. 11RE442 (TDFM-9000), 13RE483 (TDFM-9100), 13RE472 (TDFM-9200), or 13RE471 (TDFM-9300) SECTION 2.22.

 DELETED

 REFER TO APPLICABLE TECHNISONIC INDUSTRIES INSTALLATION & OPERATING INSTRUCTIONS 11RE442 (TDFM-9000), 13RE483 (TDFM-9100), 13RE472 (TDFM-9200), or 13RE471 (TDFM-9300) FOR ANTENNA AND TUNER SELECTION. TDFM-9300 ONLY: P1 PROVISION FOR 1 ANTENNA TUNER. TDFM-9200 ONLY: P1 AND P2 PROVISIONS FOR 2 ANTENNA TUNERS.

 DELETED.

 IF RC-9000 OR RC-9100 ARE NOT INSTALLED, DO NOT INSTALL CIRCUIT BREAKER ITEM 25. CAP AND STOW UNUSED WIRES IF OPTION NOT INSTALLED.

 REFER TO WIRING DETAIL FOR OPTION: FLEXTRONICS FLX-3050B ANTENNA TUNER. IF NOT USED, DO NOT INSTALL CIRCUIT BREAKER ITEM 28 AND WIRE TDFM047A22.

 REFER TO SECTION 2.7 OF APPLICABLE TECHNISONIC INDUSTRIES INSTALLATION & OPERATING INSTRUCTIONS 11RE442 (TDFM-9000), 13RE472 (TDFM-9200), or 13RE471 (TDFM-9300) FOR DONGLE WIRING INSTRUCTIONS.

 ITEM 33 IS AN OPTIONAL VARIANT OF ITEM 9.

 ITEM 37, PLF-900 POWER LINE FILTER IS AN OPTIONAL COMPONENT. (SEE PAGE 3)

QTY / DASH No.									LIST OF MATERIAL				
-015	-013	-011	-009	-007	-005	-003	-001	ITEM	PART NUMBER	DESCRIPTION	SPEC	MATERIAL or ALTERNATE P/N	
-	-	-	-	-	-	-	1	1	-001	TRANSCEIVER TDFM-9000 ONLY	-	-	
-	-	-	-	-	-	1	-	2	-003	TDFM-9000 AND REMOTE CONTROLLER RC-9000	-	-	
-	-	-	-	-	-	-	-	3	-005	TRANSCEIVER TDFM-9200 ONLY	TECHNISONIC	-	
-	-	-	-	1	-	-	-	4	-007	TDFM-9200 AND REMOTE CONTROLLER RC-9000	TECHNISONIC	-	
-	-	-	1	-	-	-	-	5	-009	TRANSCEIVER TDFM-9300 ONLY	-	-	
-	-	1	-	-	-	-	-	6	-011	TDFM-9300 AND REMOTE CONTROLLER RC-9000	-	-	
-	1	-	-	-	-	-	-	7	-013	TRANSCEIVER TDFM-9100 ONLY	TECHNISONIC	-	
1	-	-	-	-	-	-	-	8	-015	TDFM-9100 AND REMOTE CONTROLLER RC-9100	-	-	
-	-	-	-	-	-	-	1	9	101263-(0)-(90)-(0)-(0)-(0)	TDFM-9000	TECHNISONIC	-	
-	-	1	1	-	-	-	-	10	101263-(0)-(92)-(0)-(0)-(0)	TDFM-9200	TECHNISONIC	-	
-	-	-	-	-	-	-	-	11	111267-(0)-(93)-(0)-(0)-(0)	TDFM-9300	TECHNISONIC	-	
-	-	-	-	-	-	-	-	12	121273-(0)	RC-9000	TECHNISONIC	-	
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	13	AV-925	VHF/UHF/700/800 ANTENNA	RAMI ANTENNA	-	
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	14	21-50-45	MULTIBAND FM COMM ANTENNA	COOPER ANTENNAS	-	
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	15	CI-295-250	DUAL BAND/DUAL PORT ANTENNA	COMANT INDUSTRIES	-	
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	16	CI-295-200	DUAL BAND / DUAL PORT ANTENNA	COMANT INDUSTRIES	-	
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	17	CI-285	RADIOPHONE ANTENNA	COMANT INDUSTRIES	-	
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	15	CI-306	806 - 870 MHZ ANTENNA	COMANT	-	
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	18	CI-275	RADIOPHONE ANTENNA	COMANT INDUSTRIES	-	
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	19	CI-292-4	FM 136 TO 174 EXTENDED BAND ANTENNA	COMANT INDUSTRIES	-	
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	20	CI-292-3	FM 136 TO 174 EXTENDED BAND ANTENNA	COMANT INDUSTRIES	-	
-	-	A/R	A/R	A/R	A/R	-	-	21	FLX-3050B	ANTENNA/ANTENNA TUNER, 30 TO 50 MHZ	FOXTRONICS	-	
-	-	A/R	A/R	A/R	A/R	-	-	22	S85-8282-34	ALTERNATE ANTENNA, 30 TO 50 MHZ	SENSOR SYSTEMS	-	
-	-	A/R	A/R	A/R	A/R	-	-	23	CI-292-1	VHF AM 118 TO 138 MHZ ANTENNA	COMANT INDUSTRIES	-	
1	1	1	1	1	1	1	1	24	7274-11-10	CIRCUIT BREAKER, 10 AMPS	KLIXON	OR EQUIVALENT	
1	-	1	-	1	-	1	-	25	7274-11-2-1/2	CIRCUIT BREAKER, 2.5 AMPS	KLIXON	OR EQUIVALENT	
-	-	1	1	1	1	1	1	26	069662-1	IN-9000/9200/9300 INSTALLATION KIT	TECHNISONIC	-	
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	27	SRA-6000	SWITCHED RECEIVER ATTENUATOR	TECHNISONIC	-	
A/R	A/R	A/R	A/R	A/R	A/R	-	-	28	7274-11-1-1/2	CIRCUIT BREAKER, 1.5 AMPS	KLIXON	OR EQUIVALENT	
A/R	A/R	A/R	A/R	A/R	A/R	-	-	29	S85-8282-51	UHF AM ANTENNA 225-400 MHZ	SENSOR SYSTEMS	-	
A/R	A/R	A/R	A/R	A/R	A/R	-	-	30	AT-256/ARC	UHF AM ANTENNA 225-400 MHZ	RAMI ANTENNA	-	
A/R	A/R	A/R	A/R	A/R	A/R	-	-	31	AT-1108/ARC	VHF/UHF ANTENNA	RAMI ANTENNA	-	
A/R	A/R	A/R	A/R	A/R	A/R	-	-	32	S85-1227( )	UHF ANTENNA 225-400 MHZ	SENSOR SYSTEMS	-	
1	1	-	-	-	-	-	-	33	121270-(0)-(91)-(0)-(0)-(0)	TDFM-9100	TECHNISONIC	-	
1	-	-	-	-	-	-	-	34	131281-(0)	RC-9100	TECHNISONIC	-	
1	-	-	-	-	-	-	-	35	149534-1	IN-RC91 INSTALLATION KIT	TECHNISONIC	-	
-	1	-	-	-	-	-	-	36	139463-1	IN-9100 INSTALLATION KIT	TECHNISONIC	-	
A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	37	PLF-900	POWER LINE FILTER WITH CABLE ASSEMBLY	TECHNISONIC	-	



POWER REQUIREMENT

UNIT	MINIMUM CURRENT DRAW	MAXIMUM CURRENT DRAW
TDFM-9000 TRANSCEIVER	500 mA	7.5 A
TDFM-9100 TRANSCEIVER	500 mA	7.5 A
TDFM-9200 TRANSCEIVER	500 mA	7.5 A
TDFM-9300 TRANSCEIVER	500 mA	7.5 A
FLX-3050B ANTENNA TUNER	50 mA	1.0 A
RC-9000 REMOTE CONTROL	10 mA	100 mA
RC-9100 REMOTE CONTROL	10 mA	100 mA

REVISION STATUS	
SHEET	REVISION
01	F
02	D
03	D

AVIONICS DESIGN SERVICES LTD  
RELEASED

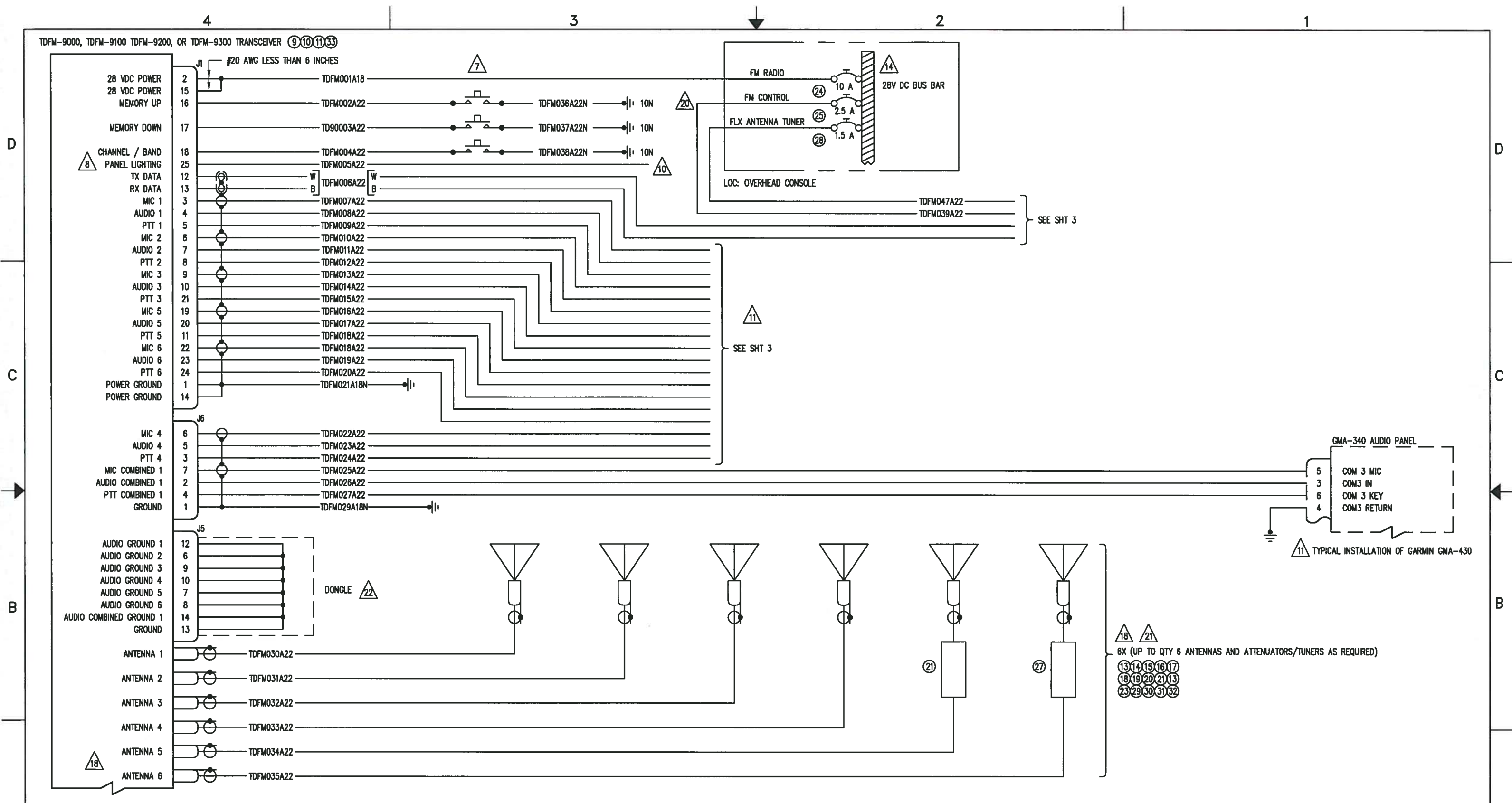
F	E	D	C	B	A	N/C	REVISION
UPDATE REV STATUS. ADD NOTE 24 AND BOM ITEM 37.	UPDATE REV STATUS. AMEND ITEM 11.	UPDATE REV STATUS. AMEND NOTE 20. AMEND ITEMS 8, 34, & 35. AMEND POWER REQ'T TABLE. ADD -015 QTY.	UPDATE REV STATUS. ADD ITEMS 33 TO 36 & FLAG NOTE 23. AMEND FLAG NOTE 15,16,18,22. AMEND PWR REQ'T TABLE & ITEM 7 QTY. ADD -015 COLUMN IN BOM.	UPDATE REV STATUS. ADD BOM ITEMS 29 TO 32 WITH FLAG NOTE 18. REMOVE FLAG NOTE 19 ITEMS 2, 4, 6 & 12. NOTE 17 DELETED.	AMENDED NOTES 19 & 20. ADDED PART NUMBER 121273-(0)	INITIAL RELEASE.	DESCRIPTION
R. MASON 16/06/29	G. JOHNSTON 06/06/16	R. MACDONALD 14/11/14	R. MACDONALD 14/06/30	R. MACDONALD 14/05/14	E. CHARLEBOIS 13/30/09	R. MACDONALD 12/11/02	DRAWN
	C. HEIDEL	R. GOW	R. GOW	R. GOW	R. GOW	R. GOW	DATE
							APPROVED

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AVIONICS DESIGN SERVICES Ltd.  
MIDLAND, ONTARIO, CANADA.

TIL FM TRANSCEIVER  
INSTALL, BELL 206

SIZE	NEXT HIGHER ASSY:	DRAWING No.	CAD FILE #
B	-	WD13005	WD13005F1
SCALE:	N/A		
DATE:	13/05/10	DRAWN:	R. MACDONALD
SHEET:	1	OF 3	



D	C	B	A	N/C	REVISION	DESCRIPTION
MINOR EDITORIAL CHANGES.	AMEND EQUIPMENT DESC & ADD ITEM 33 ZONE D4.	ADDED ITEMS 29, 30, 31 & 32 AT ZONE B1.	ADDED NOTE 20 TAG.	INITIAL RELEASE.		
R. MASON 16/06/29	R. MACDONALD 14/10/15	R. MACDONALD 14/05/14	E.CHARLEBOIS 13/24/09	R. MACDONALD 12/11/02	DRAWN	
	R. GOW	R. GOW	R. GOW	R.GOW	DATE	
					APPROVED	

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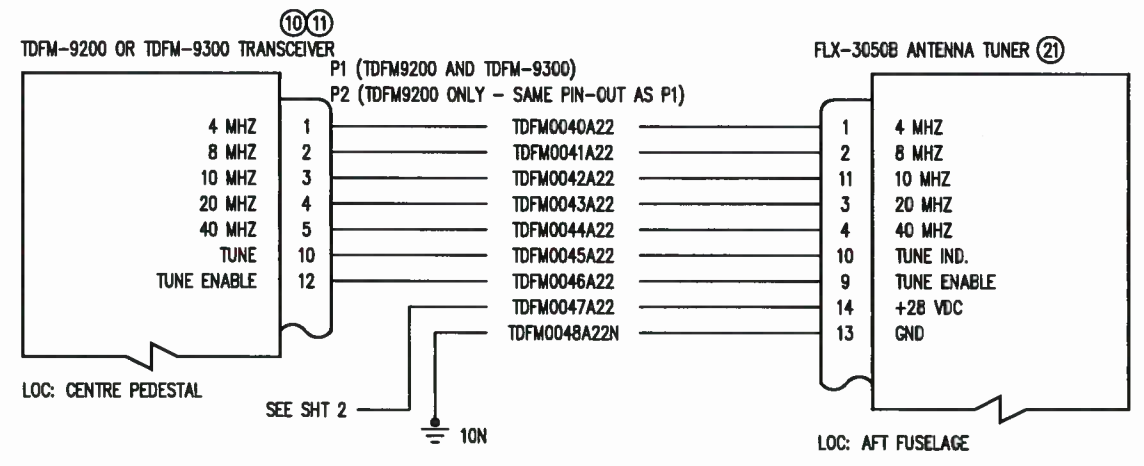
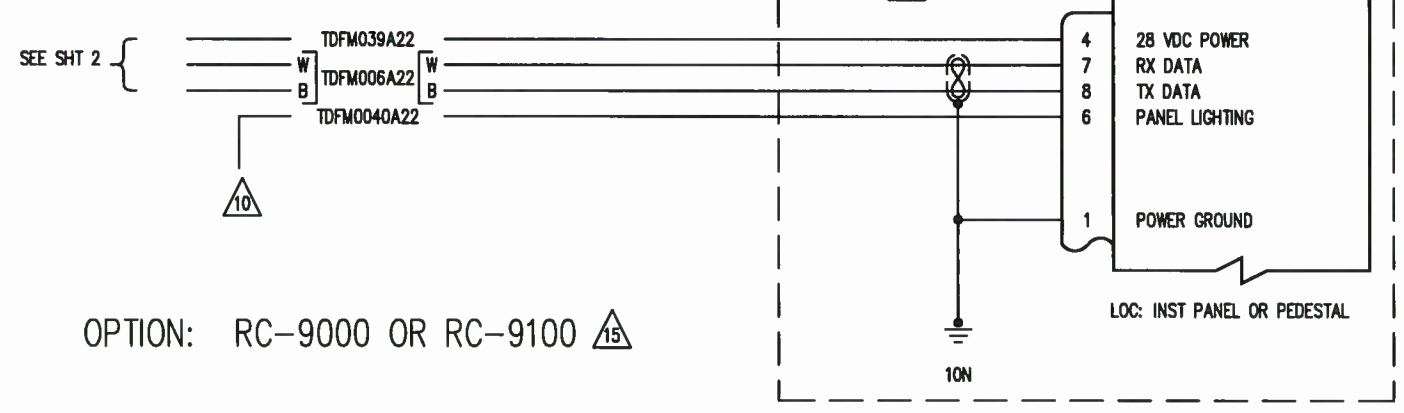
**AVIONICS DESIGN SERVICES Ltd.**  
 MIDLAND, ONTARIO, CANADA.

**TiL FM TRANSCEIVER INSTALL, BELL 206**

SIZE: NEXT HIGHER ASSY: DRAWING No. CAD FILE #WD1300502  
 B: SCALE: NTS: **WD13005**

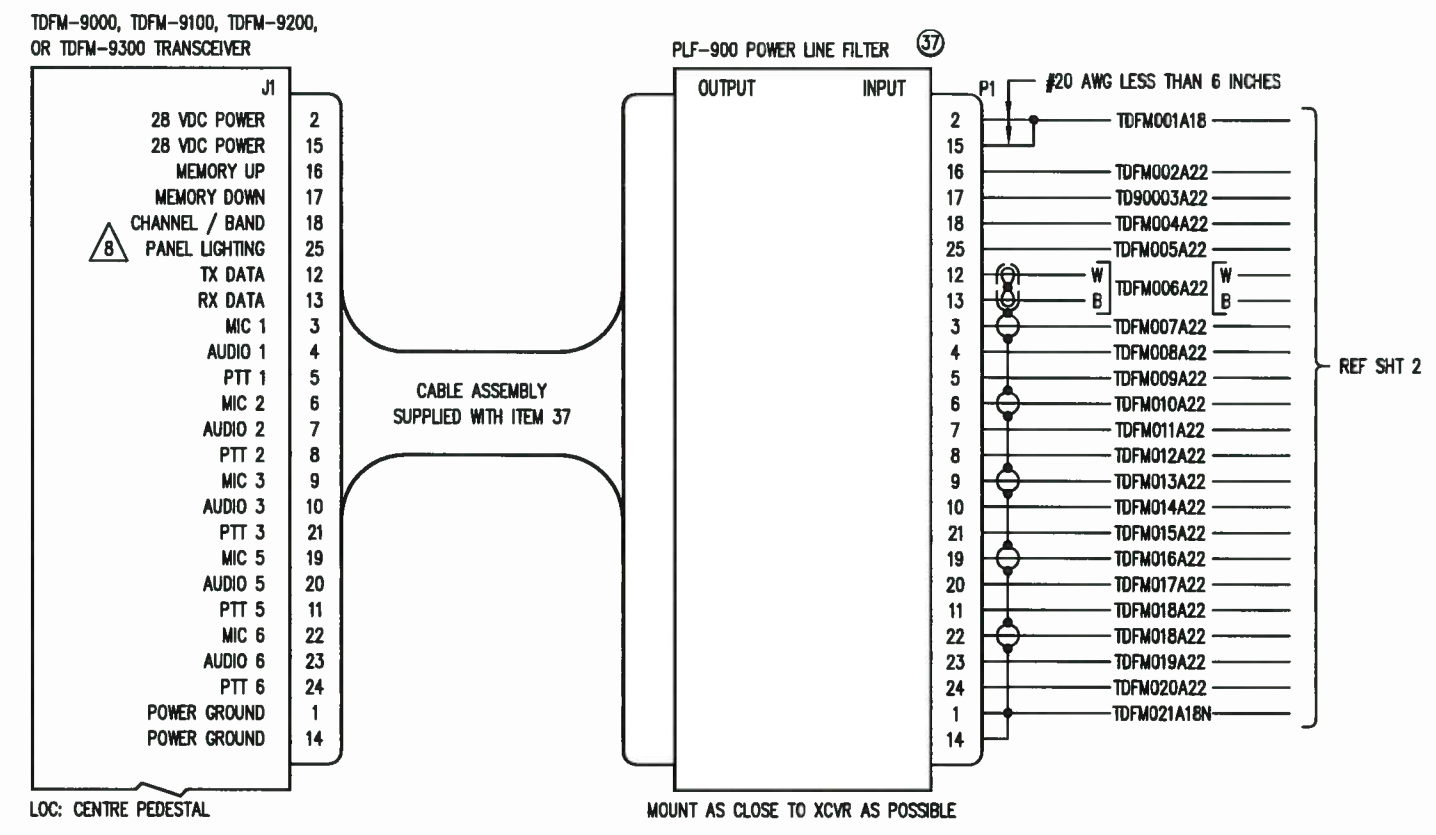
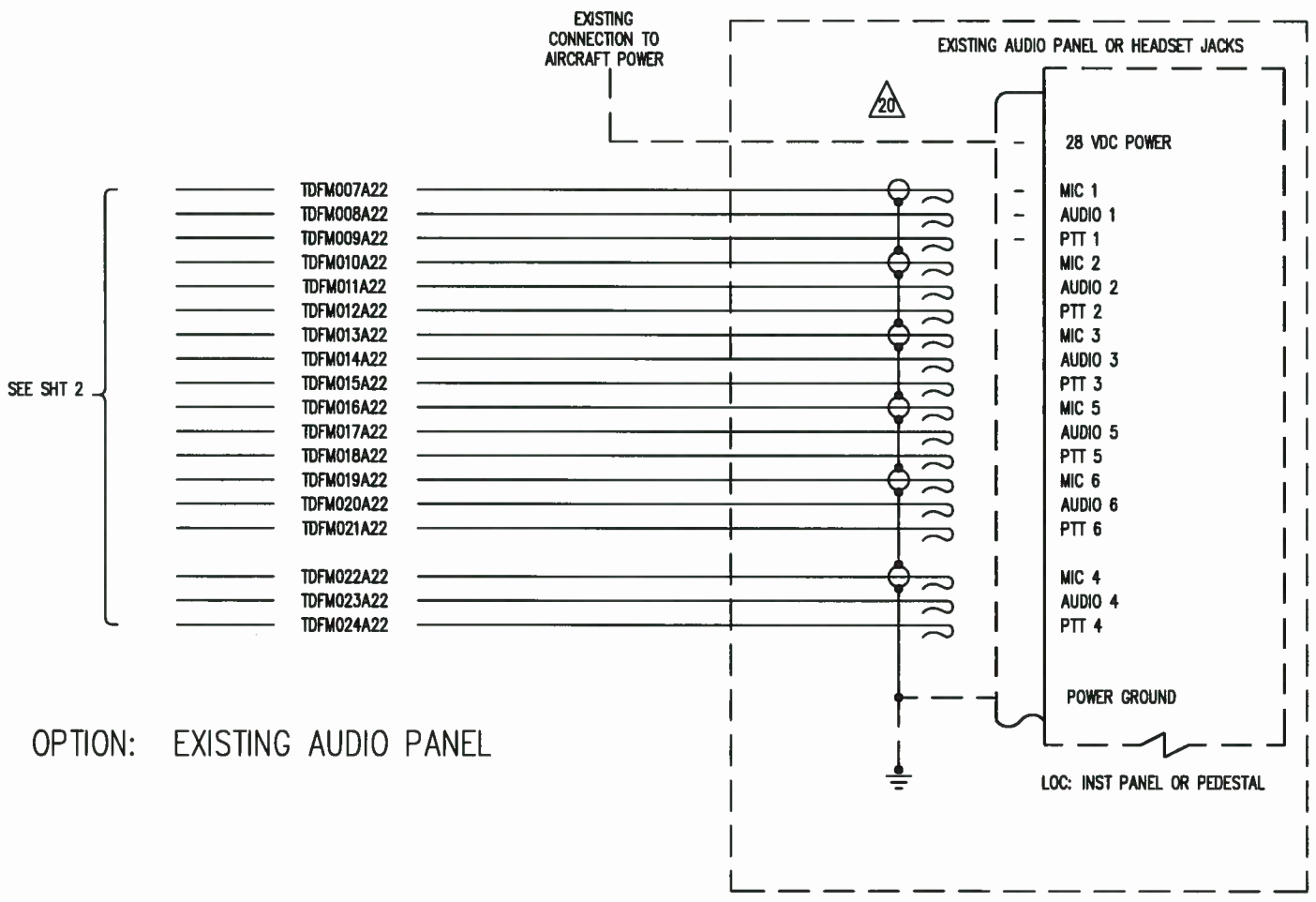
DATE: 13/05/10 DRAWN: R. MACDONALD SHEET: 2 OF 3

D



(18) OPTION: FLEXTRONICS FLX-3050B ANTENNA TUNER

C



(24) OPTION: PLF-900 POWER LINE FILTER

A

D	C	B	A	N/C	REVISION	DESCRIPTION
ADDED PLF-900 POWER LINE FILTER OPTION, ZONE B1-C2	ADD FLAG NOTE 15. AMEND OPTION TEXT ZONE D4. AMEND EQUIP DESC & ADD ITEM 34 AT ZONE D3.	DELETE FLAG NOTE 19 AT ZONE D3 (NOTE 19 WAS DELETED AT REV A).	REPLACED WIRE CAP & STOW IN SECTION D2.  REMOVED TEXT 'REFERENCE ONLY' IN SECTION C3.			
R. MASON 16/06/29	R. MACDONALD 14/11/14	R. MACDONALD 14/05/14	E.CHARLEBOIS 13/24/09	R. MACDONALD 13/05/10	DRAWN	
	R. GOW	R. GOW	R. GOW	R.GOW	APPROVED	

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MIDLAND, ONTARIO, CANADA.

**TiL FM TRANSCEIVER  
INSTALL, BELL 206**

SIZE: -  
NEXT HIGHER ASSY: -  
SCALE: NTS  
DRAWING No. CAD FILE #WD1300503  
**WD13005**

DATE: 13/05/10 DRAWN: R. MACDONALD SHEET: 3 OF 3