

1. Approving National Aviation Authority TRANSPORT CANADA		2. AUTHORIZED RELEASE CERTIFICATE TCCA 24-0078		3. Form Tracking No. F 15544	
4. Approved Organization name and address: Northern Airborne Technology Ltd. 1925 Kirschner Road Kelowna, BC V1Y 4N7 CANADA		5. Work Order/Contract/Invoice 26298			
6. Item	7. Description	8. Part No.	9. Eligibility*	10. Qty.	11. Serial/Batch No.
1.	FM Radio (138-174 MHz)	NTX138-062	Various	3	1460-1462
					12. Status/Work Manufactured
13. Remarks 1. Design Data Build Standard Rev: 1.00 Complies with TC STC #SA99-211, #SH05-12. FAA STC #SA01170NY. Manufactured in accordance with TC Manufacturing Approval Cert. #8-80 and accepted by the FAA per Para. 3.2.1.3(a) of the FAA/TCCA BASA Implementation Procedures. <i>DN 30324</i>					
14. Certifies that the items identified above were manufactured in conformity to: ☒ Approved design data and are in condition for safe operation ☐ Non Approved design data specified in Block 13			19. Certifies that, except where otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was performed in accordance with CAR 571 ☐ CAR 571.10 Maintenance Release ☐ Other regulations specified in Block 13		
15. Authorized Signature 		16. Approval Ref. No. #8-80		20. Authorized Signature N/A	
17. Name Ryan McKenna		18. Date (dd/mmm/yyyy) 09 Jun 2006		21. Certificate/Approval Ref. No. N/A	
				22. Name N/A	
				23. Date (dd/mmm/yyyy) N/A	

* Installer must cross-check eligibility with approved Data.

USER/INSTALLER RESPONSIBILITIES

1. This document does not constitute authority to install the part.
2. Where the installer works in accordance with the nation regulations of an Airworthiness Authority other than the authority specified in Block 1, the installer must ensure that his/her Airworthiness Authority accepts products or maintenance from the Airworthiness Authority specified in Block 1.
3. Statements 14 and 19 do not constitute installation certification. In all cases the aircraft technical record must contain an installation certification, issued in accordance with the national regulations of the state of registry, before the aircraft may be flown.



ACCEPTANCE TEST REPORT

NAT Part #: NTX138-062

Description: Remote Mount FM Transceiver

Document #: NTX138\062\518-0

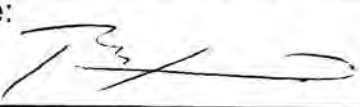
Rev: 1.00

Acceptance Test Procedure: NTX138\062\614-010x

Serial Number: 1462

ATP Results		Output	
Test	Requirement	Observation	Pass
5.1 Receiver Wideband Audio Power			
5.1.1	100 $\pm$ 10 mW	98	✓
5.2 Receiver Audio Distortion			
5.2.1	<4% audio distortion		✓
5.3 Receiver Narrowband Audio Power			
5.3.1	Same value as recorded in step 5.1.1 $\pm$ 10%	102	✓
5.4 Receiver Narrowband Sensitivity			
5.4.1	0.4 $\pm$ 0.15 μ V; 12 $\pm$ 1 dB SINAD	.33 12dB	✓
5.4.2	Repeat step 5.4.1		✓
5.5 Receiver Narrowband Audio Squelch			
5.5.1	0.4 $\pm$ 0.15 μ V; 0.2 $\pm$ 0.1 μ V; Control head main receive LED illuminates	.38 .23	✓
5.5.2	Repeat step 5.5.1		✓
5.6 Receiver Wideband Audio Squelch			
5.6.1	0.5 $\pm$ 0.2 μ V; 0.4 $\pm$ 0.15 μ V; Control head main receive LED illuminates	.53 .33	✓
5.6.2	Repeat step 5.6.1		✓
5.7 Receiver CTCSS Tones			
5.7.1	0 mW	0	✓
5.7.2	Audio heard in COM-120 speaker		✓
5.7.3	100 $\pm$ 10 mW	98	✓
5.8 Receiver DCS Tones			
5.8.1	0 mW	0	✓
5.8.2	Audio heard in COM-120 speaker		✓
5.8.3	100 $\pm$ 10 mW	98	✓
5.9 Transmitter Wideband Deviation			
5.9.1	2.5 kHz $\pm$ 500 Hz	2.71	✓
5.9.2	Repeat step 5.9.1		✓
5.9.3	< 4.0 kHz deviation		✓
5.9.4	Repeat step 5.9.3		✓
5.10 Transmitter Narrowband Deviation			
5.10.1	1.5 kHz $\pm$ 500 Hz	1.38	✓
5.10.2	Repeat step 5.10.1		✓
5.11 Sidetone			
5.11.1	25 $\pm$ 5 mW	.25	✓
5.12 Transmit Audio			
5.12.1	Audio heard with no noise or disruptions		✓
5.13 Transmitter Frequency Error			
5.13.1	< 100 Hz		✓

ATP Results		Output	
Test	Requirement	Observation	Pass
5.14 Transmitter Hi Power			
5.14.1	10 +2/-1 W	9.7	✓
5.14.2	Repeat step 5.14.1		✓
5.15 Transmitter Low Power			
5.15.1	1 +0.5/-0.1 W	1.34	✓
5.15.2	Repeat step 5.15.1		✓
5.16 Transmitter CTCSS Tones			
5.16.1	123 Hz; 750 ± 250 Hz deviation	123 .70	✓
5.16.2	Repeat step 5.16.1		✓
5.16.3	123 Hz; 450 ± 200 Hz deviation	123 .42	✓
5.16.4	Repeat step 5.16.3		✓
5.17 Transmitter DCS Tones			
5.17.1	500 ± 50 Hz deviation; code 023 is decoded by COM-120	500	✓
5.18 GD1 Transmitter			
5.18.1	Control head displays GD1 163.290; COM-120 displays demodulated audio		✓
5.19 GD2 Transmitter			
5.19.1	Control head displays GD2 168.625; COM-120 displays demodulated audio		✓
5.20 Scanning Lock-up Level			
5.20.1	≤ 1.0 µV		✓
5.20.2	Repeat step 5.20.1		✓
5.21 GD1 Receiver Audio Output Power			
5.21.1	100 ± 10 mW	102	✓
5.22 GD1 Receiver Audio Distortion			
5.22.1	< 5% distortion		✓
5.23 GD1 Receiver Sensitivity			
5.23.1	≥ 12 dB SINAD		✓
5.24 GD1 Receiver Audio Squelch			
5.24.1	0.9 ± 0.2 µV; 0.4 ± 0.2 µV; Control head guard receive LED illuminates	.77 .29	✓
5.25 GD2			
5.25.1	Repeat steps 5.21 – 5.24		✓
6.1 Enclosure			
	No defects or omissions found		✓

Authorized Inspection		
Stamp: 	Signature: 	Date: JUN 09 2006