
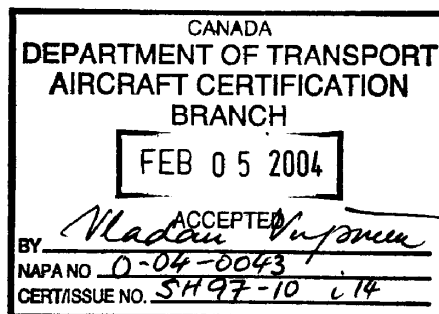


<b>TECHNISONIC INDUSTRIES LIMITED</b>	
TFM-556 UHF/VHF/LO/HI BAND FM TRANSCEIVER and TFM-66 LOW BAND FM TRANSCEIVER	
INSTRUCTIONS for CONTINUED AIRWORTHINESS	
<u>MMS03099-2</u>	
Mfg: See Aircraft Applicability Chapter 1.0, Section C.  Type: See Aircraft Applicability Chapter 1.0, Section C.  Serial No.: _____  Registration: _____	Prepared by : Avionics Design Services  Approved by :  Robert Gow

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December 15, 2003

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**TC Accepted**  
FEB 05 2004

## CHAPTER 1.0 - INTRODUCTION

### A. General

The Technisonic Industries Limited TFM-556 UHF/VHF/LO/HI Band FM Transceiver and TFM-66 LO Band FM Transceiver installations are defined by Department of Transport Supplemental Type Certificate SH97-10 and FAA Supplemental Type Certificate SR00811NY. The following equipment are installed:

#### TFM-556

- TFM-556 UHF/VHF/LO/HI Band FM Transceiver;
- UHF Antenna (As required);
- VHF Antenna (As required);
- VHF Low Antenna (As required);

#### TFM-66

- TFM-66 LO Band FM Transceiver;
- Antenna (as required);

The inspection and maintenance practices described herein relate to the TFM-556 UHF/VHF/LO/HI Band FM Transceiver and TFM-66 LO Band FM Transceiver systems as described above.

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B. ICA Distribution

This document, and any revisions thereto, shall be distributed to authorized users of the applicable STC data.

C. Aircraft Applicability

The TFM-556 UHF/VHF/LO/HI Band FM Transceiver and TFM-66 LO Band FM Transceiver system installations are applicable to the following rotorcraft:

MAKE	MODELS
Agusta	A109A, A109A II
Bell Helicopter Textron	204B, 205A-1
Bell Helicopter Textron	214B, 214B-1
Bell Helicopter Textron	212, 412
Bell Helicopter Textron	222, 222B/U, 230, 430
Bell Helicopter Textron	206A, A-1, B, L, L-1, L-3, L-4, 407
Boeing Defense & Space Group	234
Enstrom	480
Eurocopter	EC 120 B
Eurocopter Canada	BO105 LS A-3
Eurocopter Deutschland	BO105 C, BO105 S
Eurocopter Deutschland	BK117 A1 (D), A-3 (D), A-4 (D), BK117 B-1 (D), B-2 (D)
Eurocopter France	SA341 G
Eurocopter France	SA315 B, SA316 B/C, SA319 B, SE3160
Eurocopter France	SA3180, SA318 B/C, SE3130, SE313 B
Eurocopter France	AS332 C/L, SA330 F/G/J
Eurocopter France	SA360 C
Eurocopter France	AS350 B, B1, B2, B3, BA, C, D, D1
Eurocopter France	SA365 C, C1, N
Eurocopter France	AS355 E, F, F1, F2
Kaman Aerospace	K1200
McDonnell Douglas Helicopter	500N, 600N, 369, 369A, 369H, 369HM, 369HS, 369HE, 369D, 369E, 369F, 369FF
Robinson	R44
Sikorsky	S-61L, N
Sikorsky	S-76A, C

D. Supplement Identities: Chapter, Page, Paragraph Numbers

The supplement format follows the general requirements of Specification ATA-100 with respect to Chapter and Title. However, since the extent of the supplemental information is relatively small in scope, the page numbering for each chapter is consecutive. Reference can be made to the following Chapter/Subject Listing:

<u>Subject</u>	<u>Page Number</u>
Title page	0
Table of Contents, Index, Page Listing	I, ii, iii, etc.
Content page(s)	1, 2, 3, etc.

Paragraph or component titles are listed via A. B. C. D. etc.

Sub-paragraphs are listed according to:

<u>Subject</u>	<u>Sub-Para. Number</u>
Description	1.0
Fault Isolation	101
(Reserved)	201
Servicing	301
Removal / Installation	401
Adjustment / Test	501
Inspection / Check	601
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Approved Repairs	801
Storage	901

## CHAPTER 4.0 - AIRWORTHINESS LIMITATIONS

### A. General

No airworthiness limitations associated with this type design change.

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**CHAPTER 5.0 - TIME LIMITS/MAINTENANCE CHECKS**  
**5-20-00: SCHEDULED CHECKS**

**A. General**

There are no required scheduled maintenance checks for the components of the TFM-556 UHF/VHF/LO/HI Band FM Transceiver and TFM-66 LO Band FM Transceiver systems. Their primary maintenance process is CONDITION-MONITORING.

**B. Component Overhaul Schedule**

No component overhaul required for this type design change.

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## CHAPTER 23.0 - COMMUNICATIONS

### 23-10-00: TFM-556 AND TFM-66 FM TRANSCEIVERS

#### 1.0 Description

The TFM-556 UHF/VHF/LO/Hi Band FM Transceiver is a three band, frequency agile, airborne VHF/UHF FM transceiver capable of operating on the International VHF low band (from 66 to 88 MHz), VHF high band (138 to 174 MHz) and UHF band (403 to 512 MHz). An antenna is required for each of the three bands.

The TFM-66 LO Band FM Transceiver is a single band VHF/FM transceiver designed to operate from 66.000 MHz to 88.000 MHz at the high end of the General Service VHF Low Band. The TFM-66 also incorporate a two channel VHF guard receiver.

#### 401. Removal / Installation

##### **A. TFM-556 and TFM-66 Transceivers**

##### Removal

- a) Remove four Dzus fasteners from front of transceiver.
- b) Slide transceiver forward of the panel cutout.
- c) Disconnect electrical connector and antenna connector(s) from the rear of the transceiver.
- d) Remove transceiver from the panel cutout.

##### Installation

- e) Connect electrical connector and antenna connector(s) to the rear of the transceiver.
- f) Slide transceiver into the panel cutout.
- g) Secure four Dzus fasteners on the front of transceiver.



## **B. Antenna(s)**

### Removal

- a) Remove sealant around periphery of antenna.
- b) Remove fastening screws used to attach antenna to fuselage.
- c) Disconnect coaxial cable from antenna coax connector.

### Installation

- d) Connect coaxial cable to antenna coax connector.
- e) Secure fastening screws used to attach antenna to fuselage.
- f) Seal around periphery of antenna.

## 501. Adjustment / Test

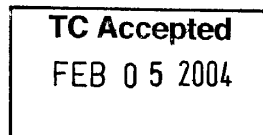
### **A. TFM-556 Transceivers**

Tests of the TFM-556 Transceiver are to be performed in accordance with the Technisonic Industries Limited Airborne Transceiver Model TFM-556 Installation and Operating Instructions, TIL Document No. 03RE328, Rev. N/C, dated September 2003, or later approved revision.

### **B. TFM-66 Transceivers**

Tests of the TFM-66 Transceiver are to be performed in accordance with the Technisonic Industries Limited Airborne Transceiver Model TFM-66 Installation and Operating Instructions, TIL Document No. 03RE320, Rev. N/C, dated March 2003, or later approved revision.

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