

TECHNISONIC INDUSTRIES LIMITED	
TFM-530 and TFM-566 VHF/VHF Low Multi-band Transceivers	
INSTRUCTIONS for CONTINUED AIRWORTHINESS	
<u>MMS03055-2</u>	
<p>Mfg: See Aircraft Applicability Chapter 1.0, Section C.</p> <p>Type: See Aircraft Applicability Chapter 1.0, Section C.</p> <p>Serial No.: _____</p> <p>Registration: _____</p>	<p>Prepared by : Avionics Design Services</p> <p>Approved by : <u><i>Robert Gow</i></u> Robert Gow</p>

Revision No.	Revision Date	Affected Pages	By
N/C	July 16, 2003	ALL	T. Wilcox

CANADA
 DEPARTMENT OF TRANSPORT
 AIRCRAFT CERTIFICATION
 BRANCH

OCT 07 2003

ACCEPTED
 BY *Madan Vinayak*
 NAPA NO 0-03-0534
 CERT/ISSUE NO. SH97-10 612

TC Accepted
 OCT 07 2003

TABLE OF CONTENTS

CHAPTER 1.0 - INTRODUCTION	1
A. General	1
B. ICA Distribution	1
C. Aircraft Applicability	1
D. Supplement Identities:	2
CHAPTER 4.0 - AIRWORTHINESS LIMITATIONS	1
A. General	1
CHAPTER 5.0 - TIME LIMITS/MAINTENANCE CHECKS	1
5-20-00: SCHEDULED CHECKS	1
A. General	1
B. Component Overhaul Schedule	1
CHAPTER 23.0 - COMMUNICATIONS	1
23-10-00: TFM-530 AND TFM-566 TRANSCEIVERS	1
1.0 Description	1
401. Removal / Installation	1
501. Adjustment / Test	2

TC Accepted
OCT 07 2003

CHAPTER 1.0 - INTRODUCTION

A. General

The Technisonic Industries Limited TFM-530 and TFM-566 VHF/VHF Low Multi-band Transceivers installations are defined by Department of Transport Supplemental Type Certificate SH97-10 and FAA Supplemental Type Certificate SR00811NY. The following equipment is installed:

- TFM-530 or TFM-566 VHF/VHF Low Multi-band Transceiver;
- VHF / VHF Low Antennas (as required);

The inspection and maintenance practices described herein relate to the TFM-530 and TFM-566 VHF/VHF Low Multi-band Transceiver systems as described above.

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-530 and TFM-566 VHF/VHF Low Multi-band Transceivers 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

TC Accepted

OCT 07 2003

MAKE	MODELS
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
Fault Isolation	101
(Reserved)	201
Servicing	301
Removal / Installation	401
Adjustment / Test	501
Inspection / Check	601
Cleaning / Painting	701
Approved Repairs	801
Storage	901

<p>TC Accepted OCT 07 2003</p>

CHAPTER 4.0 - AIRWORTHINESS LIMITATIONS

A. General

No airworthiness limitations associated with this type design change.

July 16, 2003

TC Accepted
OCT 07 2003

4-00-00
Page 1

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-530 and TFM-566 VHF/VHF Low Multi-band Transceivers. Their primary maintenance process is CONDITION-MONITORING.

B. Component Overhaul Schedule

No component overhaul required for this type design change.

CHAPTER 23.0 - COMMUNICATIONS

23-10-00: TFM-530 AND TFM-566 TRANSCEIVERS

1.0 Description

The TFM-530 and TFM-566 transceivers are airborne VHF/VHF Low multiband FM radios capable of operating in the 138 to 174 MHz range and either the 30 to 50 MHz (TFM-530) or 66 TO 68 MHz (TFM-566) range. The transceivers also incorporate a two channel VHF guard receiver. An antenna is required for each of the two bands.

401. Removal / Installation

A. TFM-530 and TFM-566 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-530 and TFM-566 Transceivers

Tests of the TFM-530 Transceiver are to be performed in accordance with the Technisonic Industries Limited Airborne Transceiver Model TFM-530 Installation and Operating Instructions, TIL Document No. 03RE317, Rev. N/C, dated March 2003, or later approved revision.

Tests of the TFM-566 Transceiver are to be performed in accordance with the Technisonic Industries Limited Airborne Transceiver Model TFM-566 Installation and Operating Instructions, TIL Document No. 03RE318, Rev. N/C, dated March 2003, or later approved revision.