

United States of America
Department of Transportation -- Federal Aviation Administration

Supplemental Type Certificate

IMPORT

Number SA00812NY

This certificate issued to

Technisonic Industries Limited
240 Traders Blvd. E
Mississauga, Ontario L4Z 1W7
Canada

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part * of the * Regulations.

Original Product -- Type Certificate Number: *

*See attached FAA Approved Model List (AML)
No. SA00812NY for list of approved airplane models and
applicable airworthiness regulations.

Make: *

Model: *

Description of Type Design Change:

The TFM-138, -138A, -138B and -138C FM transceiver models are manufactured to TIL Engineering Release 921012, Revision B, dated November 24, 1997, or later Transport Canada approved revision.

The TFM-403 UHF/FM Transceiver model is manufactured to TIL Engineering Release 941059, Revision A, dated October 27, 1999, or later Transport Canada approved revision.

The TFM-500 VHF/UHF FM Transceiver model is manufactured to TIL Engineering Release 971083, Revision N/C, dated March 16, 1999, or later Transport Canada approved revision.

The TFM-30 VHF low band FM Transceiver model is manufactured to TIL Engineering Release 961082, Revision N/C, dated April 19, 1999, or later Transport Canada approved revision.

(See Continuation Sheets 2, 3 and 4)

Limitations and Conditions:

1. Compatibility of this design change with previously approved modifications must be determined by the installer.
2. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

(See Continuation Sheets 4 and 5)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: December 23, 1997

Date revised: December 2, 2002, March 14, 2003

Date of issuance: March 23, 1998

Date amended: February 5, 1999; February 15, 2000;
November 14, 2000; December 18, 2002, February 25, 2003;
April 8, 2004; September 12, 2005; December 13, 2010



By direction of the Administrator


(Signature)
Anthony Socias
Manager, New York Aircraft Certification Office

(Title)

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Supplemental Type Certificate
(Continuation Sheet)

Number SA00812NY

Date of Amendment: December 13, 2010

Description of Type Design Change (Continued):

The Remote Control RC-500 model is manufactured to TIL Engineering Release 991097, Revision N/C, dated November 17, 1999, or later Transport Canada approved revision.

The TDFM-136 VHF/FM Transceiver model is manufactured to TIL Engineering Release 981087, Revision N/C, dated January 13, 2000, or later Transport Canada approved revision.

The TFM-550 VHF High/VHF Low/UHF Multi-band Transceiver model is manufactured to TIL Engineering Release 991095, Revision N/C, dated March 1, 2000, or later Transport Canada approved revision.

The RC-550 VHF/UHF/VHF Low FM Transceiver Remote Control Head model is manufactured to TIL Engineering Release 991099, Revision N/C, dated March 27, 2000, or later Transport Canada approved revision.

The ATC-550 Antenna Tuner Controller model is manufactured to TIL Engineering Release 991102, Revision N/C, dated March 20, 2000, or later Transport Canada approved revision.

The TDFM-600/ 6000 Series VHF / UHF Low / UHF High / 800 MHz Multi-Band Transceiver is manufactured to TIL Engineering Release 011210, Revision A, dated June 20, 2004, or later Transport Canada approved revision.

The Remote Control RC-6000 is manufactured to TIL Engineering Release 021213, Revision N/C, dated October 17, 2002, or later Transport Canada approved revision.

The TFM-530 VHF/VHF Low FM Multi-band Transceiver model is manufactured to TIL Engineering Release 031216, Revision N/C, dated April 2003, or later Transport Canada approved revision.

The TFM-566 VHF/VHF Low FM Multi-band Transceiver model is manufactured to TIL Engineering Release 031217, Revision N/C, dated April 2003, or later Transport Canada approved revision.

The AMS-6000 Audio Mode Selector model is manufactured to TIL Engineering Release 031220, Rev. N/C, dated August 2003, or later Transport Canada approved revision.

The TFM-66 VHF Low Band FM Transceiver model is manufactured to TIL Engineering Release 031218, Rev. N/C, dated September 19, 2003, or later Transport Canada approved revision.

The TFM-556 VHF High/VHF Low/UHF Multi-band FM Airborne Transceiver model is manufactured to TIL Engineering Release 031219, Rev. N/C, dated September 23, 2003, or later Transport Canada approved revision.

The TDFM-7000 VHF/UHF Low/UHF High/800 MHz Multi-band Transceiver is manufactured to TIL Engineering Release 051240-1, Rev. --, dated February 3, 2006 or Engineering Release 051240-2, Rev. --, dated February 3, 2006 or Engineering Release 051240-3, Rev. --, dated February 3, 2006 or Engineering Release 051240-4, Rev. --, dated February 3, 2006 or later Transport Canada approved revision.

The RC-7000 remote control is manufactured to TIL Engineering Release 051242-1 Rev.--, dated June 20, 2006 or Engineering Release 051242-2, Rev. --, dated June 20, 2006 or later Transport Canada approved revision.

The TDFM-7300 VHF Low/VHF High/UHF Low/UHF High/800 MHz Multi-band Transceiver is manufactured to TIL Engineering Release 061245-1 Rev. -- dated October 27, 2008, or Engineering Release 061245-2 Rev. -- dated October 27, 2008, or Engineering Release 061245-3 Rev. -- dated October 27, 2008, or Engineering Release 061245-4 Rev. -- dated October 27, 2008, or later Transport Canada approved revision.

The RC-7300 remote control is manufactured to TIL Engineering Release 061247-1 Rev. --, dated December 22, 2008 or Engineering Release 061247-2 Rev. --, dated December 22, 2008 or later Transport Canada approved revision.

The TDFM-136A Transceiver is manufactured to TIL Engineering Release 091258-1-10 Rev. -, dated April 22, 2009, or TIL Engineering Release 091258-1-11 Rev. -, dated April 22, 2009, or TIL Engineering Release 091258-2-10 Rev. -, dated April 22, 2009, or TIL Engineering Release 091258-2-11, dated April 22, 2009, or TIL Engineering Release 091258-3-10 Rev. -, dated April 22, 2009, or TIL Engineering Release 091258-3-11 Rev. -, dated April 22, 2009, or TIL Engineering Release 091258-4-10 Rev. -, dated April 22, 2009, or TIL Engineering Release 091258-4-11 Rev. -, dated April 22, 2009, or TIL Engineering Release 091258-5-10 Rev. -, dated April 22, 2009, or TIL Engineering Release 091258-5-11 Rev. -, dated April 22, 2009, or TIL Engineering Release 091258-6-10 Rev. -, dated April 22, 2009, or TIL Engineering Release 091258-6-11 Rev. -, dated April 22, 2009, or later Transport Canada approved revision.

Configuration 1: Installation of Technisonic Industries Limited TFM-138, -138A, and -138B, (does not include TFM-138, s/n 1540 and up, TFM-138B, s/n 1500 and up) in accordance with TIL Installation and Operating Manual 95RE177, Revision E, Transport Canada approved April 13, 1998, or later Transport Canada approved revision.

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

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Number SA00812NY

Date of Amendment: December 13, 2010

Description of Type Design Change (Continued):

Configuration 2: Installation of Technisonic Industries Limited TFM-138B, in accordance with TIL Installation and Operating Instructions Manual 97RE221, Revision A. Transport Canada approved September 21, 2010, or later Transport Canada approved revision.

Configuration 3: Installation of Technisonic Industries Limited TFM-138C, in accordance with TIL Installation and Operating Instructions Manual 96RE192, Revision B, Transport Canada approved April 13, 1998, or later Transport Canada approved revision.

Configuration 4: Installation of Technisonic Industries Limited TFM-138 (s/n 1540 and up with F10-B Software), in accordance with TIL Installation and Operating Instructions Manual 98RE229, Revision A Transport Canada approved September 21, 2010, or later Transport Canada approved revision.

Configuration 5: Installation of Technisonic Industries Limited TFM-403, in accordance with TIL Installation and Operating Instructions Manual 95RE175, Revision C, Transport Canada approved May 2, 2003, or later Transport Canada approved revision.

Configuration 6: Installation of Technisonic Industries Limited TFM-500 in accordance with TIL Installation and Operating Instructions Manual 98RE243, Revision N/C. Transport Canada approved September 21, 2010, or later Transport Canada approved revision.

Configuration 7: Installation of Technisonic Industries Limited TFM-30 in accordance with TIL Installation and Operating Instructions Manual 98RE244, Revision N/C, Transport Canada approved November 15, 1999, or later Transport Canada approved revision.

Configuration 8: Installation of Technisonic Industries Limited RC-500 in accordance with TIL Installation and Operating Instructions Manual 99RE260, Revision N/C, Transport Canada approved January 25, 2000, or later Transport Canada approved revision.

Configuration 9: Installation of Technisonic Industries Limited TDFM-136 VHF/FM Transceiver in accordance with TIL Installation and Operating Instructions Manual 99RE255, Revision D, Transport Canada approved June 24, 2010, or later Transport Canada approved revision.

Configuration 10: Installation of Technisonic Industries Limited TFM-550 VHF High/VHF Low/UHF Multi-band FM Transceiver in accordance with TIL Installation and Operating Instructions Manual 99RE262, Revision A, Transport Canada approved September 21, 2010 or later Transport Canada approved revision.

Configuration 11: Installation of Technisonic Industries Limited RC-550 VHF/UHF/VHF Low FM Transceiver Remote Control Head in accordance with TIL Installation and Operating Instructions Manual 00RE270, Revision N/C, Transport Canada approved May 19, 2000, or later Transport Canada approved revision.

Configuration 12: Installation of Technisonic Industries Limited ATC-550 Antenna Tuner Controller in accordance with TIL Installation and Operating Instructions Manual 00RE269, Revision A, Transport Canada approved May 19, 2000, or later Transport Canada approved revision.

Configuration 13: Installation of Technisonic Industries Limited TDFM-600/ 6000 series VHF / UHF Low/UHF High/ 800 MHz Multi-Band Transceiver in accordance with TIL Installation and Operating Instructions Manual 01RE293, Revision F, Transport Canada approved November 1, 2010, or later Transport Canada approved revision.

Configuration 14: Installation of Technisonic Industries Limited RC-6000 in accordance with TIL Installation and Operating Instructions Manual 02RE299, Revision A, Transport Canada approved November 26, 2002, or later Transport Canada approved revision.

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Supplemental Type Certificate

(Continuation Sheet)

Number SA00812NY

Date of Amendment: December 13, 2010

Description of Type Design Change (Continued):

Configuration 15: Installation of Technisonic Industries Limited TFM-530 VHF/VHF Low FM Multi-band Transceiver in accordance with TIL Installation and Operating Instructions Manual 03RE317, Revision B, Transport Canada approved January 16, 2007, or later Transport Canada approved revision.

Configuration 16: Installation of Technisonic Industries Limited TFM-566 VHF/VHF Low FM Multi-band Transceiver in accordance with TIL Installation and Operating Instructions Manual 03RE318, Revision B, Transport Canada approved September 3, 2003, or later Transport Canada approved revision.

Configuration 17: Installation of Technisonic Industries Limited AMS-6000 Audio Mode Selector in accordance with TIL Installation and Operating Instructions Manual 03RE325, Rev. N/C, Transport Canada approved November 26, 2003, or later Transport Canada approved revision.

Configuration 18: Installation of Technisonic Industries Limited TFM-66 VHF Low Band FM Transceiver in accordance with TIL Installation and Operating Instructions Manual 03RE320, Rev. N/C, Transport Canada approved January 14, 2004, or later Transport Canada approved revision.

Configuration 19: Installation of Technisonic Industries Limited TFM-556 VHF High/VHF Low/UHF Multi-band FM airborne Transceiver in accordance with TIL Installation and Operating Instructions Manual 03RE328, Rev. N/C, Transport Canada approved January 14, 2004, or later Transport Canada approved revision.

Configuration 20: Installation of Technisonic Industries Limited TDFM-7000 VHF/UHF Low/ UHF High/800 MHz Multi-band Transceiver in accordance with TIL Installation and Operating Instructions Manual 05RE375, Revision N/C, Transport Canada approved September 21, 2010, or later Transport Canada approved revision.

Configuration 21: Installation of Technisonic Industries Limited RC-7000 in accordance with TIL Installation and Operating Instructions Manual 06RE377, Rev. N/C, Transport Canada approved November 1, 2006, or later Transport Canada approved revision.

Configuration 22: Installation of Technisonic Industries Limited TDFM-7300 30-50 MHz/VHF/UHF Low/UHF High/800MHz Multi-band Transceiver in accordance with TIL Installation and Operating Instructions Manual 08RE389, Revision A, Transport Canada approved September 21, 2010, or later Transport Canada approved revision.

Configuration 23: Installation of Technisonic Industries Limited RC-7300 in accordance with TIL Installation and Operating Instructions Manual 08RE400 Rev. N/C, Transport Canada approved May 28, 2009, or later Transport Canada approved revision.

Configuration 24: Installation of Technisonic Industries Limited TDFM-136A in accordance with TIL Installation Instructions 09RE404 Revision C, Transport Canada approved June 17, 2010, or later Transport Canada approved revision.

Limitations and Conditions (Continued):

3. Maintenance of the TDFM-600/ 6000 series VHF/UHF Low/UHF High/800 MHz Multi-Band Transceiver and RC-6000 Remote Control Head must be in accordance with Technisonic Industries Limited Instructions for Continued Airworthiness MMS02030-1, Rev. D, Transport Canada accepted November 3, 2010, or later Transport Canada accepted revisions.
4. Maintenance of the TFM-530 and TFM-566 VHF/VHF Low FM Transceiver must be in accordance with Technisonic Industries Limited Instructions for Continued Airworthiness MMS03055-1, Revision B, Transport Canada accepted November 3, 2010, or later Transport Canada accepted revisions.
5. Pressure vessel penetrations are not included in this approval. Any required pressure vessel penetrations require a separate approval.

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Supplemental Type Certificate
(Continuation Sheet)

Number SA00812NY

Date of Amendment: December 13, 2010

Limitations and Conditions (Continued):

6. Maintenance of the AMS-6000 Audio Mode Selector must be in accordance with Technisonic Industries Limited Instructions for Continued Airworthiness MMS02030-1 Rev. D, Transport Canada accepted November 3, 2010, or later Transport Canada accepted revision.
7. Maintenance of the TFM-66 VHF Low Band FM Transceiver and TFM-556 VHF High/HF Low/UHF Multi-band FM Airborne Transceiver must be in accordance with Technisonic Industries Limited Instructions for Continued Airworthiness MMS03099-1 Rev. B, Transport Canada accepted November 3, 2010, or later Transport Canada accepted revisions.
8. A copy of this certificate and the FAA Approved Model List (AML) No. SA00812NY, issued March 23, 1998, or later FAA approved revisions, must be maintained as part of the permanent records for the modified aircraft.
9. Maintenance of the TDFM-7000 / TDFM-7300 VHF/UHF Low/UHF High/800 MHz Multi-band Transceiver and RC-7000 / RC-7300 Remote Control Head must be in accordance with Technisonic Industries Limited Instructions for Continued Airworthiness ICA06045-1 Revision D, Transport Canada accepted November 3, 2010, or later Transport Canada accepted revisions.
10. Maintenance of the TDFM-136A Transceiver must be in accordance with Technisonic Industries Limited Instructions for Continued Airworthiness ICA06045-1 Revision D, Transport Canada accepted November 3, 2010, or later Transport Canada accepted revisions.


...END...

FAA APPROVED MODEL LIST (AML) NO. SA00812NY
For
Technisonic Industries Limited

Installation of the TFM-30, -138, -138A, -138B, -138C, -403, -500, RC-500, TFM-66, TDFM-136, TFM-530, TFM-550, TFM-556, TFM-566, RC-550 and 6000, ATC-550, TDFM-600/6000, AMS-6000, TDFM-7000, RC-7000, TDFM-7300, RC-7300, and TDFM-136A.

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATE BASIS FOR ALTERATION	AML AMENDMENT DATE
1	Cessna	172, 172A/B/C/D/E/F/G/H/I/J/K/L/M/N/P/Q, 172R	3A12	CAR3	N/A
2	Cessna	180, 180A/B/C/D/E/F/G/H/I/J/K	5A6	CAR3	N/A
3	Cessna	182, 182A/B/C/D/E/F/G/H/I/J/K/L/M/N/P/Q/R, 182S, R182, T182, TR182	3A13	CAR3	N/A
4	Cessna	185, 185A/B/C/D/E, A185E/F	3A24	CAR3	N/A
5	Cessna	208, 208A, B	A37CE	FAR23	N/A
6	Cessna	206, P206, P206A/B/C/D/E, TP206A/B/C/D/E, U206, U206A/B/C/D/E/F/G, TU206A/B/C/D/E/F/G	A4CE	CAR3	N/A
7	Piper	PA-28-140, -28-150, -28-160, -28-180, -28-235, -28R-180, -28S-160, -28S-180, -28R-200, -28-151, -28-161, -28-181, -28R-201, -28R-201T, -28-236, -28RT-201, -28RT-201T, -28-201T	2A13	CAR3	9/12/2005
8	Piper	PA-32-260, -32-300, -32S-300, -32R-300, -32RT-300, -32RT-300T, -32-301, -32R-301(SP), -32R-301(HP), -32R-301T, -32-301T	A3SO	CAR3	N/A
9	Twin Commander	500, 500-A, 500-B, -500S, 500-U, 520, 560, 560-A, 560-E	6A1	CAR3	9/12/2005
10	Twin Commander	560-F, 680, 680 E/F/FL/FL(PY)/V/W, 681, 685, 690, 690A/B/C/D, 695, 695 A/B, 720	2A4	CAR3	2/15/2000
11	Pilatus Aircraft Ltd.	PC-6, PC-6-H1, PC-6-H2, PC-6/350, PC6/350-H1, PC6/350-H2, PC-6/A, PC-6/A-H1, PC-6/A-H2, PC-6/B-H2, PC-6/B1-H2, PC-6/B2-H2	7A15	CAR3	12/13/2010

FAA Approved:


Anthony Socias
Manager, New York
Aircraft Certification Office

Amended: December 13, 2010