
Type Acceptance Report

TAR 97/05

TECNAM P92-J

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Introduction

This report details the basis on which Type Acceptance Certificate No.97/05 was issued in accordance with NZCAR Part 21 Subpart B. Specifically the report aims to:

- (a) Record the airworthiness certification standard used for type acceptance of the applicable model in New Zealand;
- (b) Summarise any outstanding requirements which must be complied with for the issue of a NZ Airworthiness Certificate to any models covered by the Type Acceptance Certificate.

Foreign Type Certificate Details

Type Certificate: Specifica di Omologazione del tipo di Aeromobile n° A340
Issued by: Registro Aeronautico Italiano
Manufacturer: Costruzioni Aeronautiche TECNAM S.r.l.
Model: P92-J
Engines: Rotax 912A2
Propellers: GT-2/166/145-FW100SRTC or FW101SRTC
MCTOW 535 kg (1179 lb.)
Noise Category: ICAO Annex 16, Vol.I 3a Ed. 1993, Cap.10

The certification basis of the P92-J is JAR-VLA dated April 26, 1990, and including amendments 91/1 and 92/1. The engine has been type certificated to JAR 22 Subpart H at change 1 and the propeller to JAR 22 Subpart J at change 4.

This is an acceptable certification basis in accordance with NZCAR Part 21B Para 21.41, as detailed in Advisory Circular AC21-1. JAR-VLA is an acceptable standard for Part 91 operations. There are no non-compliances and no special conditions have been prescribed by the Director under 21.23.

Type Acceptance Application

The application for New Zealand type acceptance dated 1st May 1997 was submitted on behalf of the manufacturer by the NZ agent for the aircraft, Giovanni Nustrini of Tecnam Ltd. The First-of-Type example of the aircraft is serial number 009 ZK-TVB.

The aircraft was delivered new with an RAI Export Certificate of Airworthiness and a factory "Aircraft Identification Handbook". This contained an Aircraft Statement of Conformity; list of principal vendor equipment; list of modifications; list of Service Bulletins embodied; and a record of life limited components.

Type Acceptance Certificate No.97/05 was granted on 23 October 1997.

Type Data

The type data requirements of NZCAR Part 21B Para 21.43 have been satisfied by supply of the following documents:

- (1) Type certificate: Specifica di Omologazione del Tipo di Aeromobile SO/A340 TCDS (translation) No. SO/A340 for Tecnam P92-J dated 10.11.95
Specifica di Omologazione del Tipo di Elica SO/E26 - GT ELICHE
Musterzulassungsschein (TC) Nr.TW 8/89 - Fa.Bombardier Rotax GmbH
TCDS TW 8/89 Issue 2, 23 April 1993 - Models Rotax 912A1, A2, A3
- (2) Airworthiness design requirements: Copy already held by the CAA.
- (3) Certification compliance listing:
P92-J Compliance Check List - Doc. 92/28 Issue III dated 18-10-1996
- (4) Flight manual: P92-J Flight Manual Doc. No. 92/20 of 10 Nov. 1996
A translation of the Italian version whose sections 2,3 4 and 5 were officially approved by the RAI under No. 95/3750/MAE.
This has been accepted as the NZ Flight Manual under AIR 2584
- (5) Illustrated Parts Catalogue: P92J Parts Catalog - Doc. No. 92/22 - Nov 1996
- (6) Maintenance manual and service data for aircraft, engine and propeller:
P92-J Maintenance Manual - Doc. No. 92/21 - Page B20 (Service Lives) is a translation of the Italian version officially approved by the RAI under 95/3750/MAE.
Maintenance Manual Rotax Engine Type 912A -P/N 897 955 Edition 0 of 1996 12 28
Operator's Manual for Rotax 912A P/N 897 625 Edition 2 of 1966 05 31
Instruction Manual No. E-001/96 Propeller Mod.GT-2/166/145-FW100/101
- (7) Agreement from manufacturer to supply updates of data in (4), (5) and (6):
CAA 2171 forms from TECNAM, Eng Michele Oliva dated 11 June 1997.
- (8) Other information: Report N. 92/10 - P92-J Technical Informations

Additional New Zealand Certification requirements

Compliance with the following additional NZ requirements has been reviewed and were found to be covered by either the original certification requirements or the basic build standard of the aircraft, as noted:

Civil Aviation Rules Part 91

Subpart F - Instrument and Equipment Requirements

Note: Ref. in the table below refers to the Equipment List in Section 6 of the Flight Manual. The minimum equipment required to be fitted is listed in Section 2 Page 2-9.

PARA:	REQUIREMENT:	MEANS OF COMPLIANCE:
91.505	Seat and safety belt for each berth	JAR-VLA §785 and §1307
91.509	(1) ASI	JAR-VLA §1303(a) - Ref. D2
Min.	(2) Machmeter	N/A
VFR	(3) Altimeter	JAR-VLA §1303(b) - Ref. D1
	(4) Magnetic Compass	JAR-VLA §1303(c) - Ref. D3
		(8) Coolant Temp JAR-VLA §1305(j) - Ref. D10
		(9) Oil Temperature JAR-VLA §1305(b) - Ref. D10
		(10) Manifold Pressure N/A
		(11) Cylinder Head Temp. N/A
PARA:	REQUIREMENT:	MEANS OF COMPLIANCE:

91.509	(5) Fuel Contents	JAR-VLA §1305(a)	(12) Flap Position	See FM Page 7-3 and Fig.7-2
Cont'd	(6) Engine RPM	JAR-VLA §1305(d)	(13) U/c Position	N/A
	(7) Oil Pressure	JAR-VLA §1305(b) - Ref. D11	(14) Ammeter/Voltmeter	JAR-VLA §1351(d)
91.511	Night VFR Equipment	N/A - JAR-VLA only certificated for day VFR		
	(1) Turn and Slip	Optional instrument - Ref. D6	(3) Anti-collision Lights	Optional equipment - Ref. C7
	(2) Position Lights	Optional equipment - Ref. C8	(4) Instrument Lighting	
91.517	IFR Equipment	N/A - JAR-VLA only certificated for day VFR		
91.529	ELT - TSO C91a after 1/4/97 (or replacement)		To be determined on an individual aircraft basis	
	Installation must comply with Appendix A.15			

Outstanding Requirements

The following additional NZ requirements are not covered by the original certification requirements or the basic build standard of the aircraft and require compliance with before issue of an airworthiness certificate:

Civil Aviation Rules Part 26

Subpart B - Additional Airworthiness Requirements

Appendix B - All Aircraft

PARA:	REQUIREMENT:	MEANS OF COMPLIANCE:
B.1	Marking of Doors and Emergency Exits	To be determined on an individual aircraft basis - The standard aircraft placarding did not include door handle operating instructions on the inside.

Civil Aviation Rules Part 91

Subpart F - Instrument and Equipment Requirements

PARA:	REQUIREMENT:	MEANS OF COMPLIANCE:
91.529	ELT - TSO C91a after 1/4/97 (or replacement) Installation must comply with Appendix A.15	To be determined on an individual aircraft basis

Summary

The TECNAM P92-J has been issued with Type Acceptance Certificate No.97/05 and is eligible for the issue of a NZ Airworthiness Certificate in the Standard Category in accordance with CAR 21.177, subject to the outstanding requirements noted above being met. The aircraft is limited to day-VFR operations under Part 91 only.

Attachments

The following documents form attachments to this report:

Photographs of First-of-Type example Serial No.009 ZK-TVB

Three-view drawing P92-J

Copy of Type Certificate Data Sheet No. SO/A340

Sign off

David Gill
Airworthiness Engineer

Date: 23 October 1997