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AUSTRALIAN DEFENCE FORCE



AUSTRALIAN AIR PUBLICATION

7001.059B1(AM1)

**ADF AVIATION MAINTENANCE MANAGEMENT
MANUAL
(BOOK 1 OF 2)**

Date of Issue: 2 Oct 08

A handwritten signature in black ink, appearing to read 'M.D. BINSKIN', with a long horizontal flourish extending to the right.

M.D. BINSKIN
Air Marshal
ADF Airworthiness Authority

Sponsor: DAVREG

File Reference: 2007/1134061

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NOTES TO READERS

This publication issued as an Australian Air Publication (AAP) is authorised by the ADF Airworthiness Authority as the contents have Tri-Service significance and authority.

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Personnel at all levels are encouraged to submit recommendations for changes to procedures contained within this publication using the Publication Improvement Report and Reply (PIRR) system in accordance with AAP 5030.001CD.

All PIRRs are to be forwarded through the responsible Force Element Group (FEG) or equivalent for comment prior to submission to Aviation Maintenance Management Systems 1 (AMMS1) within the Directorate General Technical Airworthiness (DGTA). For expediency, PIRRs may be sent via facsimile to (03) 9256 3377: Attention AMMS1B1.

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This AAP comprises two books.

These books are issued and maintained as a set.

Book one contains all applicable Preliminary Pages, including a List of Effective Pages and Amendment Certificate for the set.

Book two contains a List of Effective Pages and other Preliminary Pages applicable to that book only.

All amendments to the set are entered in the Amendment Certificate for the set, which is contained in Book one

This set comprises the following books:

AAP 7001.059B1(AM1)

AAP 7001.059B2(AM1)

This publication superseded AAP 7001.059(AM1)—*ADF Aviation Maintenance Management Manual*, Date of Issue 15 Sep 04.

SUMMARY OF CHANGES INTRODUCED IN THIS AMENDMENT (AL02)

Introduction

As a result of the DGTA Organisational Review, Directorates within DGTA have been re-named. The publication will be amended on an opportunity basis to incorporate these changes when individual chapters are amended or when the publication is re-issued.

References to Directorate of Aircraft Maintenance (DAIRMAINT), now Directorate of Aviation Regulation (DAVREG), will be changed to DAVREG.

References to Directorate of Aircraft Engineering (DAIRENG), now Directorate of Aviation Engineering (DAVENG), will be changed to DGTA.

References to Directorate of Quality Assurance–Air (DQA(Air)), now Directorate of Aviation Compliance (DAVCOMP), will be changed to DGTA.

SECTION 1

ADF MAINTENANCE MANAGEMENT FRAMEWORK

Chapter 1 – Introduction to AAP 7001.059(AM1)

References to DAIRMAINT and MMS changed to DAVREG and AMMS respectively.

SECTION 2

MAINTENANCE AUTHORISATIONS

Chapter 3 – Task Authorisation of Non-Technical Personnel (Other Than Aircrew)

Reference to DAIRMAINT changed to DAVREG.

All reference to ‘maintenance’ tasks has been removed as not all tasks non-technical personnel can be authorised to perform are ‘maintenance tasks’.

Paragraphs 3 and 4 have been interchanged, and reference to 1AOSS in paragraph 4 removed.

Paragraph 21 amended to remove the limiting conditions to authorising.

Chapter 3 Annex A – Tasks Suitable for Performance by Non-Technical Personnel

References to ‘Aeronautical product maintenance’ and ‘normal supervision’ removed from paragraph 1.

SECTION 3

MAINTENANCE PROCESSES

Chapter 3 – Aircraft Maintenance

Editorial change. Reference to DGTA AMPTS3 in paragraph 51 changed to Common Services System Support Office (CSSSO) Aerospace Technical Standards Document Centre (ATSDC).

Chapter 6 Annex B – Example of a Message Allotment Request

Reference to Table 6–B–1 in the first paragraph of the message deleted.

Table 6–B–1 on page 2 deleted as information is contained in AAP 7001.038(AM1) Section 2 Chapter 1 Annex B.

Chapter 7 – Control of tools and Support Equipment

Paragraph 28 added to clarify who is responsible for CTK clearance and closure.

Paragraph 36 amended to clarify who is responsible for clearance and closure of CTKs in use by external agencies.

Chapter 9 – Engine Ground Runs

Paragraphs 1 and 2 amended to clarify when running APUs in lieu of ground power units to supply supplemental power.

Paragraph 16 amended to clarify the requirements when ground running installed aircraft engines.

Documentation requirements in paragraphs 18, 20 and 23 amended to clarify entries required in the recording and certification system when conducting engine ground runs.

Chapter 10 Annex B – Management of Navy Specific Explosive Ordnance Maintenance

Paragraph 3 amended to clarify responsibilities of the FAEO.

The Currency of Arming, Re-Arming and De-Arming Procedures requirement, originally in paragraph 13, has been removed at the request of FAEU/NASPO.

Paragraph 10 and 12 updated to identify correct reference.

Paragraphs 14 and 15 amended to clarify requirements when deploying chaff from helicopters.

Chapter 12 – Ground Handling and Fuelling Operations

Paragraphs 33 to 35 added to clarify the responsibilities of personnel performing and assisting with aircraft fuelling operations.

Editorial change. Paragraph 36b Liquid Oxygen (LOX) changed to Liquid Dry Breathing Oxygen (LDBO).

Chapter 13 – Maintenance Personnel Duty/Rest Periods

Paragraph 1 amended to reference Defence Fatigue Management Policy.

SECTION 4

MAINTENANCE RECORDING

Chapter 2 Annex A – Form EE500—Maintenance Form

Paragraph 100 amended to remove the erroneous requirement for the MM to rule through the ‘Trade Supervisor’ field on the completion of ‘Maintenance following aircraft acceptance’.

Paragraphs 110f and 111 amended to clarify document control and retention requirements of Form EE500 yellow sheets and ASI sheets respectively.

Chapter 2 Annex A, Appendix 1 – Continuous Charge

Paragraph 21 amended to advise that ‘Maintenance Whilst under Continuous Charge’ must be performed as ‘Maintenance following Aircraft Acceptance’ as detailed in Section 4 Chapter 2 Annex A.

Chapter 2 Annex B – Form EE500–A—Maintenance Form Simulator

Editorial change. Paragraph 70b amended to identify correct reference.

Chapter 2 Annex I – The Aircraft Log Pack

Paragraph 9 amended to clarify certificates and forms which are acceptable as Inspection and Test Certificates for aircraft and engines.

Retention requirements of ASI sheets added in Table 2–I–1.

‘Historical’ placed against CAMM ACLOGP and MILOGP reports in Table 2–I–1.

SECTION 5

AERONAUTICAL PRODUCT MANAGEMENT

Chapter 3 – Controlled Cryptographic Items Fitted to Aircraft

Editorial change. Sub-paragraphs to paragraphs 8, 11 and 12 correctly numbered.

SECTION 6

REPORTING

Chapter 7 – Maintenance Deficiency Investigation and Reporting (Air Force and Army)

Editorial change. Paragraph 9 amended to identify correct reference.

SECTION 7

TRAINING

Chapter 2 – Aviation Trades Assessment Procedures

Paragraph 3 added to clarify the purpose of the assessment process.

Chapter 6 – Maintenance Training Requirements—Army

Contents deleted, now found in 16 AVN BDE SI(LOG) 7–208.

SECTION 8

SUPPLEMENTARY PROCESSES

Chapter 2 – General Aircraft Safety

Paragraph 6 amended to identify correct reference.

Procedures relating to ‘Jacking of Aircraft’ that were inadvertently removed at AL0 have been re-instated in paragraphs 39 to 45.

Chapter 5 – Environmental Policy and Legislated Requirements

Editorial change. Reference to SO3 FP HQ 16Bde (Avn) deleted in paragraph 13b.

Chapter 6 – Non-Destructive Testing

Paragraph 10 to 13 amended to clarify the current process for NDT Task Certification.

Paragraph 14 amended to clarify that the re-certification visit by NDTSL will be conducted annually.

Reference to NDT Operators added throughout the chapter.

Reference to NDTSL as the sponsor of the chapter has been removed as specific reference to NDTSL was confusing.

Reference to AAP 7001.043–36—*Non-Destructive Testing General Procedures* added in paragraph 15.

Chapter 8 – Management of Training Aids

Editorial change. Bracket to DEF(AUST)9022 added in paragraph 12d.

Chapter 9 – Ground Support Equipment

Editorial change. Paragraphs 30 and 33 amended to identify correct reference.

POST PAGES

Alphabetical Index

Alphabetical Index updated.

SUMMARY OF CHANGES INTRODUCED IN AMENDMENT AL01

The changes contained within this amendment are minor points of clarification, removal of ambiguity and editorial changes to correct formatting and spelling errors and omissions.

SECTION 2

MAINTENANCE AUTHORISATIONS

Chapter 1 – Task Authorisation

Corrected minor omissions and anomalies in text.

Text added to clarify mentor experience requirements post task authorisation and to highlight the circumstances under which a non-task authorised tradesperson can be mentored and a single certification used to certify maintenance.

SECTION 3

MAINTENANCE PROCESSES

Chapter 10 – Management of Aircraft Explosive Ordnance Maintenance

Annex C, removal of the requirement for LSC to be a maintenance manager for Air Force.

SECTION 4**MAINTENANCE RECORDING****Chapter 2 – Recording and Certification of Aircraft and Aeronautical Product Maintenance**

This change adds text to clarify that personnel certifying maintenance must make reference to the applicable technical instruction used to conduct the maintenance.

Reference at paragraph 16 changed from Annex A to Annex B.

Removes text at Paragraph 17 ‘requiring’ first, second and third level of certification against the task, which conflicts with follow-on instruction that Additional IMIs do not require first and second level of certification.

Annex A— *Form EE500* Captains release and acceptance procedures clarified.

Paragraph 96—now contains additional information regarding the process by which an aircraft captain can authorise maintenance after aircraft acceptance. The requirement to include delegated responsibilities to MMs to approve maintenance in local instructions has been removed.

Paragraph 100—removed the requirement for an aircraft captain to certify maintenance performed following aircraft acceptance.

SECTION 8**SUPPLEMENTARY INSTRUCTIONS****Chapter 21 – Aviation Petroleum, Oils and Lubricants**

Removes erroneous paragraph references and corrects the timeframe for testing fuel in storage.

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AMENDMENT CERTIFICATE

It is certified that the amendment promulgated in the undermentioned Amendment List have been incorporated in this copy of the Publication:

Amendment List		Amended By		
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2	6 May 09	Angus Maclean	A.R.Maclean	13 May 09
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FOREWORD

- 1.** All ADF aircraft and aeronautical product are maintained under a common technical airworthiness framework that allows Navy, Army, Air Force and contractually obligated contractor organisations to manage the maintenance of ADF aircraft in accordance with ADF approved regulations, standards and processes. The ADF Technical Airworthiness Regulations are promulgated in AAP 7001.053(AM1)—*Technical Airworthiness Management Manual*. AAP 7001.059(AM1)—*ADF Aviation Maintenance Management Manual* is the tri-service aviation maintenance management procedural document and contains the instructions that fully support and meet the requirements of AAP 7001.053(AM1).
- 2.** This publication provides authoritative instructions for all ADF Authorised Maintenance Organisations (AMO) and contractually obligated contractor organisations and provides guidance for other organisations that support or contribute to ADF technical airworthiness.

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LIST OF ASSOCIATED PUBLICATIONS

AAP 2002.001(AM1) B1 to B3	Manual of Training – Policy and Procedures
AAP 2320.101–1M	Occupational Specifications Aircraft Engineering Trade Group
AAP 2373.101–1M (AM1)	Occupational Specifications and Skills Assessments - Communications Operative Occupational Group
AAP 2375.101-1M (AM1)	Occupational Specifications and Skills Assessments GSE Trade Group
AAP 3031.003	RAAF Demands and Identification of Equipment
AAP 3033.001	Logistics Management of Repairable Inventory
AAP 3530.002	Salvage, Conversion and Disposal of Stores
AAP 3631.001MB1 to B2	RAAF Manual of Air Movements
AAP 5030.001	Defence Aviation and Australian Air Publication System Manual
AAP 5030.004	RAAF Publications System–Orders and Instructions
AAP 5102.003	Military Standard -1388-1A/2B and ADF Unique Requirements
AAP 7001.006–1	Technical Maintenance Control and Associated Documentation
AAP 7001.038(AM1)	Maintenance Requirement Determination (MRD) Manual
AAP 7001.047(AM1)	Defence Aerospace Configuration Management Manual
AAP 7001.053(AM1)	Technical Airworthiness Management Manual
AAP 7001.054(AM1)	Airworthiness Design Requirements Manual
AAP 7001.055(AM1)	Support and Test Equipment Through Life Support Manual
AAP 7001.060–1(AM1)	Introduction to the CAMM2 System
AAP 7001.060–2(AM1)	CAMM2 Aircraft Maintenance Organisation
AAP 7001.060–3(AM1)	CAMM2 Maintenance Control and User Management
AAP 7001.060–4(AM1)	CAMM2 Authorised Engineering Organisations
AAP 7001.060–5(AM1)	CAMM2 Manual Reports
AAP 7001.068(AM1)	Design and Technology Services and Support Manual
AAP 7002.007–1	Technical Equipment Preparation for Air Transport
AAP 7002.008–1B1 to B2	Non-Destructive Inspection Methods General Data
AAP 7002.011	ADF Aircraft Battle Damage Repair Manual
AAP 7002.023	Oxygen General—General and Technical Requirements
AAP 7002.041	Storage of Aircraft and Technical Equipment
AAP 7002.043–36	Non-Destructive Testing General Procedures
AAP 7021.001–1B1 to B2	Aircraft Structural Hardware
AAP 7021.002–1	General Structural Repair Manual
AAP 7021.003–1	Aeronautical Metals—General Data
AAP 7021.004–1	Aircraft Finishing Schemes Materials and Processes
AAP 7021.005–1	Cleaning and Corrosion Control of Aircraft
AAP 7021.016–2	Composite and Adhesive Bonded Repairs – Repair Fabrication and Application Procedures

AAP 7027.001–1	Inspection and Repair of Aircraft Integral Tanks and Fuel Cells
AAP 7029.001–3M	Aircraft Wheels, Tyres and Brakes General
AAP 7029.007–3M	Aircraft Fuel Cells and Internal/External Tanks
AAP 7029.008–2M	Wheels, Tyres and Tubes U.S. Navy Sourced Aircraft
AAP 7039.001–1	Explosives Ordnance Safety Manual
AAP 7039.008	Explosives Ordnance RAAF Supply Instructions
AAP 7045.002–1	ADF Aircraft Wiring and Bonding Manual
AAP 7055.001–99	Liquid and Gaseous Dry Breathing Oxygen Maintenance Instructions
AAP 7069.100–7	Aviation Common Ground Support Equipment GZ09 Technical Maintenance Plan
AAP 7090.001–99	Avionics Engineering General Instructions
AAP 7215.010–3M	Preservation of Naval Aircraft
AAP 7279.008–1	Aerial Recovery of Australian Military Aircraft
AAP 7396.002–1M(AM1)	Demolition Explosives and Associated Equipment
AAP 7414.019–3M	Aircraft Storage Batteries Nickel/Cadmium
AAP 7550.001–2M	Oxygen Equipment
AAP 7600.001–14 (AM1)	Test and Measuring Equipment Calibration Management and Handling Procedures Manual
AAP 7600.500–14M	GSE Handling Procedures General Maintenance and Safety Precautions
AAP 7605.014–2M(AM1)	Contamination Control Hydraulic Test Rigs and Benches
AAP 7663.015	Aircraft Arresting Systems—Information and Instructions
AAP 8130.001–9	Air Standardisation Co-ordinating Committee (ASCC)—Air Standards Working Party 25—Aircraft Cross Servicing and Maintenance
AASTP–2	Manual of NATO Safety Principles for the Transportation of Military Ammunition and Explosives
ABR 4	Manual of Stores Management in HMA Ships
ABR 10	Sailors' Career Management Manual
ABR 5150	Naval Aviation Instructions
ABR 5419	Ship Helicopter Operations Manual
ABR 6140	Condition Monitoring Manual
ABR 6303	NAVSAFE Manual—Navy Safety Management
ADFP 3.0.2	Explosive Ordnance Disposal
ADFP 6.0.3.1	ADF Communications Security Instructions
ADFP 101	Glossary
ADFP 102	Defence Writing Standards
ADF Standard Engineering T9022	Requirements for Civilian Personnel Maintaining State Aircraft and Aeronautical Equipment
AS1674	Safety in Welding and Allied Processes
AS1939	Degree of Protection— Enclosures for Electrical Equipment

AS2380/AS2381	Electrical Equipment for Explosive Atmospheres—Explosive Protection Techniques
AS2865	Safe Working in Confined Spaces
AS3000	Standards Association of Australia—Wiring Rules
AS3100	Approval and Test Specification—Electrical Equipment
AS3669	Non Destructive Testing-Qualifications and Registration of Personnel-Aerospace
AS4002	Hydraulic Fluid Power – Particulate contamination of systems.
DEF(AUST)206F	Handbook of Liquid Fuels, Lubricants and Allied Products
DEF(AUST)1000C	Australian Defence Force Packaging Standard. Parts 1 to 20.
DEF(AUST)5695A	Minimum Standards of Practice for the Storage, Handling and Quality Control of Fuels, Lubricants and Allied Products
DEF(AUST)9022	Requirements for Civilian Personnel Maintaining State Aircraft and Aeronautical Product
DEM	Defence Environment Manual
DEOP 103(AM1)	Defence Explosive Ordnance Safety Manual (Books 1 to 4)
DEOP 350.001001(AM1)	OTTO Fuel II Safety, Storage and Handling Instructions
DGTA TAD 02/2003 (AL2)	Compass Swing Site Calibration
DI(A) ADMIN 23–2	Management of Reportable Incidents
DI(A) PERS 116–1	Trade Assessment and Testing Policy, Organisation and Procedures
DI(A) PERS 116–2	Army Technical and Trade Scheme
DI(AF) ADMIN 04–8	Sponsorship and Management of RAAF Workforce Employment Groups
DI(AF) ADMIN 06–1	System of Orders, Instructions and Publications of the RAAF
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DI(AF) LOG 03–109	Supervision and Inspection of Non-Aircraft Maintenance Operations
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DI(AF) PERS 34–18	RAAF Record of Training and Employment
DI(G) LOG 4–1–006	Safety of Explosive Ordnance
DI(G) LOG 4–3–004	Defence Stock Location Policy

DI(G) LOG 4-3-008	Disposal of Defence Assets
DI(G) LOG 4-3-023	Waste radioactive material preparation and storage pending permanent disposal
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ETR	Explosive Transport Regulations (2002)
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MFPE	Manual of Fire Prevention Engineering
NAP 7000.001-2	RAN Air Technical Publication System
NAP 7069.001-7	Ground Support Equipment—Technical Maintenance Plan
NATO Standardisation Agreement No 3117	Aircraft Marshalling Signals
OPSMAN 3	Defence Operations Manual—Safety Principles for the Handling of Explosive Ordnance
POLMAN 3	Defence Records Management Policy Manual
SAFETYMAN	Defence Safety Manual
SI(AC) OPS 5-2	Special Purpose Aircraft Security
TRAMM	Technical Regulation of Army Material Management

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AUSTRALIAN DEFENCE FORCE



AUSTRALIAN AIR PUBLICATION

7001.059B2(AM1)

**ADF AVIATION MAINTENANCE MANAGEMENT
MANUAL
(BOOK 2 OF 2)**

Date of Issue: 2 Oct 08

A handwritten signature in black ink, appearing to read 'M.D. Binskin'.

M.D. BINSKIN
Air Marshal
ADF Airworthiness Authority

Sponsor: DAVREG

File Reference: 2007/1134061

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