AIRCRAFT MAINTENANCE MANUAL

S1000D TECHNICAL PUBLICATION

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1. GENERAL INFORMATION

This manual contains maintenance procedures for aircraft systems.
All maintenance must be performed by qualified personnel.
Follow safety procedures at all times.

1.1 SCOPE

This publication covers:

- Engine maintenance procedures
- Hydraulic system servicing
- Electrical system checks
- Landing gear maintenance

1.2 APPLICABILITY

Applicable to aircraft models: A320, A330, A340
Effective date: January 2025

2. ENGINE MAINTENANCE PROCEDURES

2.1 OIL CHANGE PROCEDURE

WARNING: Engine must be shut down and cooled before oil change.

Required tools:

- Oil drain pan (minimum 8 liters)
- Socket wrench set
- Oil filter wrench
- Torque wrench

Procedure:

1. Position aircraft on level ground
2. Remove engine cowling
3. Locate oil drain plug
4. Position drain pan under plug
5. Remove drain plug and drain oil
6. Replace oil filter
7. Reinstall drain plug with new gasket
8. Refill with specified oil (SAE 15W-50)
9. Check oil level and run engine
10. Reinstall cowling

3. HYDRAULIC SYSTEM MAINTENANCE

3.1 HYDRAULIC FLUID CHECK

CAUTION: Use only approved hydraulic fluid (MIL-H-5606).

Check procedure:

1. Park aircraft on level surface
2. Shut down all systems
3. Wait 30 minutes for system to stabilize
4. Check reservoir sight gauge
5. Fluid level should be between MIN and MAX marks
6. If low, add fluid through filler port
7. Check for leaks around fittings
8. Record fluid level in maintenance log

3.2 HYDRAULIC SYSTEM BLEEDING

Bleeding procedure for air removal:

1. Connect bleeding equipment to service port
2. Start hydraulic pump
3. Open bleeding valve slowly
4. Allow air bubbles to escape
5. Close valve when fluid runs clear
6. Check system pressure

4. FAULT ISOLATION PROCEDURES

4.1 ENGINE FAULT ISOLATION

Engine will not start:

1. Check fuel supply
2. Verify ignition system
3. Test starter motor
4. Check engine control unit

Engine runs rough:

1. Check spark plugs
2. Test fuel injectors
3. Verify air intake
4. Check exhaust system

4.2 HYDRAULIC SYSTEM FAULTS

Low hydraulic pressure:

1. Check fluid level
2. Inspect for leaks
3. Test hydraulic pump
4. Check pressure regulator

System sluggish response:

1. Check for air in system
2. Verify filter condition
3. Test accumulator