GENERAL

airbus a320 ata chapter list

Published: September 19, 2026 | Index ID: #-

Introduction

When it comes to aircraft maintenance, clarity and consistency are paramount. Engineers, technicians, and maintenance planners rely on a standardized system that allows them to identify, troubleshoot, and repair components quickly and accurately. One of the most widely adopted frameworks in the aviation industry is the **Air Transport Association (ATA) of America** chapter system. For operators of the Airbus A320 family, the *airbus a320 ata chapter list*is an indispensable tool that organizes every system, subsystem, and component into a coherent, searchable format.

In this guide, we'll dive deep into the ATA chapter system, explore why it matters for Airbus A320 maintenance, walk through the key chapters that appear on the list, and show you how to use this information effectively. Whether you're a seasoned maintenance professional, a student, or an airline engineer just getting acquainted with the A320, this article will provide a comprehensive, step by step reference.

What Are ATA Chapters?

ATA chapters are part of a global standard that divides an aircraft into numbered sections. Each chapter covers a specific system or function, such as hydraulics, electrical, or environmental control. The numbering convention follows a three digit format (e.g., 10, 20, 30), with sub chapters indicated by additional digits (e.g., 10.1, 10.2). This hierarchical structure enables maintenance personnel to locate information quickly, whether they're looking at a maintenance manual, a troubleshooting guide, or a parts catalog.

Why ATA Chapters Are Essential for Airbus A320 Maintenance

The Airbus A320 family is a complex, high performance aircraft that incorporates advanced avionics, fly by wire controls, and sophisticated environmental systems. With such complexity comes a vast array of components that must be meticulously maintained. The ATA chapter system offers several key benefits:

- Standardization – All airlines, MROs, and manufacturers use the same chapter numbers, reducing confusion.
- Efficiency – Technicians can quickly jump to the relevant section, saving time during inspections and repairs.
- Documentation Consistency – Manuals, checklists, and parts catalogs are all aligned with the chapter numbers.
- Compliance – Regulatory bodies often reference ATA chapters in their maintenance and inspection requirements.
- Cross Platform Integration – Software tools, such as maintenance management systems, use ATA chapters to track work orders and parts usage.

The Core ATA Chapter List for Airbus A320

Below is a concise overview of the primary ATA chapters you'll encounter when working on an Airbus A320. While the full list extends beyond 100 chapters, the following sections represent the most frequently referenced areas during routine maintenance and troubleshooting.

Chapter 10 – General

This chapter covers the aircraft’s overall structure, including the fuselage, empennage, and landing gear. It also addresses the aircraft’s weight and balance, as well as the installation of the main structural components.

Chapter 20 – Avionics

All electronic systems that support flight operations fall under this chapter. It includes the flight management computer, navigation, communications, and cockpit displays.

Chapter 30 – Electrical

The electrical chapter encompasses power generation, distribution, and backup systems. It’s critical for ensuring that all avionics and flight controls receive reliable power.

Chapter 40 – Fuel

Fuel system components, pumps, tanks, and monitoring equipment are listed here. Proper fuel management is vital for flight safety and efficiency.

Chapter 50 – Hydraulic

Hydraulic systems power flight controls, brakes, and landing gear. This chapter covers pumps, reservoirs, valves, and the associated plumbing.

Chapter 60 – Pneumatic

Air conditioning, pressurization, and environmental control systems are detailed in this chapter. It also includes the bleed air system and associated valves.

Chapter 70 – Propulsion

For the A320, this chapter covers the two CFM International CFM56 or Pratt & Whitney PW1100G engines, thrust reversers, and engine controls.

Chapter 80 – Landing Gear

All components related to the main and nose gear, including brakes, steering, and hydraulic actuators, are covered under this chapter.

Chapter 90 – Flight Controls

Flight control systems, such as ailerons, elevators, rudders, and the fly by wire logic, are organized here. It’s essential for diagnosing control surface anomalies.

Chapter 100 – Systems & Equipment

This chapter aggregates miscellaneous systems that don’t fit neatly into the earlier categories, such as fire suppression, oxygen, and cabin safety equipment.

Chapter 110 – Documentation

All manuals, schematics, and procedural documents are referenced here. While not a physical system, this chapter is crucial for maintenance planning.

Detailed Overview of Key Chapters

Below, we break down each of the main chapters and highlight the most important sub sections you’ll encounter on the *airbus a320 ata chapter list*. Understanding these sub chapters helps technicians pinpoint issues and reference the correct procedures.

Chapter 20 – Avionics

1. 20.1 – Flight Management System (FMS) – Includes the navigation database, flight plans, and autopilot integration.
2. 20.2 – Flight Deck Displays – Covers the primary flight display (PFD), multi function display (MFD), and electronic flight instrument system (EFIS).
3. 20.3 – Communications – Encompasses VHF radios, satellite communications, and data link systems.
4. 20.4 – Navigation – Includes GPS, inertial navigation, and ground station interfaces.
5. 20.5 – Aircraft Management Systems – Covers the central monitoring system, fault annunciators, and diagnostic tools.

Chapter 30 – Electrical

1. 30.1 – Power Generation – Covers the main power generators, auxiliary power units (APUs), and emergency power sources.
2. 30.2 – Power Distribution – Includes circuit breakers, busbars, and distribution panels.
3. 30.3 – Backup Systems – Addresses the emergency and standby power supplies.
4. 30.4 – Electrical Wiring – Covers the wiring harnesses, connectors, and cable assemblies.

Chapter 50 – Hydraulic

1. 50.1 – Hydraulic Pumps – Details the engine driven and electric pumps.
2. 50.2 – Hydraulic Reservoirs – Covers the storage tanks and level indicators.
3. 50.3 – Hydraulic Lines and Valves – Includes the plumbing, check valves, and pressure regulators.
4. 50.4 – Hydraulic Actuators – Covers the flight control actuators, landing gear, and brakes.

Chapter 70 – Propulsion

1. 70.1 – Engine Core – Includes the fan, compressor, combustion chamber, and turbine.
2. 70.2 – Engine Control Units (ECU) – Covers the FADEC and engine monitoring systems.
3. 70.3 – Thrust Reversers – Details the mechanical and hydraulic components.
4. 70.4 – Engine Mounts – Includes the structural attachments and isolation mounts.

How to Use the ATA Chapter List Effectively

Having the list on hand is only the first step. To truly benefit from the ATA chapter system, you need to integrate it into your daily workflow. Here are some practical tips:

1. Cross Reference with Maintenance Manuals

Most maintenance manuals are organized by ATA chapter numbers. When you're troubleshooting an issue, locate the relevant chapter, then consult the specific sub chapter for detailed instructions.

2. Leverage Software Tools

Modern Maintenance Management Systems (MMS) and Electronic Document Management Systems (EDMS) use ATA chapters as tags. By filtering work orders or parts by chapter, you can quickly assess which systems are impacted.

3. Create Quick Reference Guides

Develop laminated cheat sheets that list the most common ATA chapters for your fleet. Include the chapter number, a short description, and the primary component it covers.

4. Train New Technicians

Use the ATA chapter list as an educational framework. Teach new hires how to navigate the system, find parts, and

locate troubleshooting steps.

5. Keep the List Updated

As aircraft undergo modifications, new systems may be added or existing ones updated. Ensure your ATA chapter list reflects any changes in the aircraft's configuration.

Common Maintenance Issues and Their ATA Chapter Origins

Below are a few typical problems operators encounter, along with the ATA chapter where you'll find the relevant procedures and troubleshooting steps.

Engine Oil Leak

Likely originates from Chapter 70.1 (Engine Core) or Chapter 50.3 (Hydraulic Lines and Valves). Inspect the oil lines, seals, and fittings for integrity.

Cabin Overpressure

Check Chapter 60.3 (Pressurization) for cabin pressure sensors and control valves. Verify the bleed air system and the cabin pressure relief valve.

Electrical System Fault

Refer to Chapter 30.1 (Power Generation) and Chapter 30.2 (Power Distribution). Look for blown fuses, short circuits, or faulty connectors.

Landing Gear Failure

Investigate Chapter 80.1 (Landing Gear) for hydraulic actuators and Chapter 50.4 (Hydraulic Actuators) for the gear's hydraulic control. Confirm that the gear is properly extended and locked.

Resources and Further Reading

- Airbus A320 Maintenance Manual (AMM) – The definitive source for all maintenance procedures, organized by ATA chapters.
- Airbus A320 Pilot's Operating Handbook (POH) – Provides operational context for many systems.
- FAA Advisory Circular 120-87B – Offers guidance on aircraft maintenance program planning.
- ATA International – ATA Chapter Reference – The official website for the ATA chapter numbering system.
- Flight Safety Foundation – ATA Chapter Training Modules – Online courses that cover the ATA chapter system in depth.

Conclusion

The *airbus a320 ata chapter list*is more than a numbering scheme; it's the backbone of systematic aircraft maintenance. By understanding how each chapter maps to physical systems, how to navigate the manuals, and how to integrate this knowledge into daily operations, maintenance teams can achieve higher efficiency, reduce downtime, and maintain the highest safety standards.

Whether you're inspecting a new A320, troubleshooting an engine anomaly, or updating a maintenance procedure, the ATA chapter framework remains an indispensable ally. Keep the list handy, stay familiar with each chapter's content, and let the standardized structure guide you toward accurate, timely, and compliant maintenance actions.

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