DASSAULT FALCON 900EX Model Guide

DASSAULT FALCON 900EX is a turbofan business jet in the Dassault Falcon 900 family (variants 900 and 900EX). Family-level registry maxima, not this variant's own figures: up to 18 passengers, 4330 nm range, 428 kt cruise, 51000 ft ceiling and 20600 kg MTOW. The supplied documents give no 900EX-specific performance, so confirm figures in the aircraft's flight manual.

KEY TAKEAWAYS

- Family-level registry maxima: up to 4330 nm range, 428 kt cruise and 51000 ft ceiling. Confirm 900EX figures in its flight manual.
- Chapter 5-40 airworthiness limits are mandatory. Non-compliance leads to immediate suspension of the airworthiness certificate.
- Main and nose landing gear legs are life-limited to 20000 landings (LDG). The pitch auxiliary AFU is limited to 2000 LDG.
- Brake assembly 5014198 is listed as used on Falcon 900EX. Brake stack kits are available new or refurbished.

STRUCTURAL LIMITS AND 'STANDARD AIRCRAFT'

The Chapter 5-40 limits (revision 24, September 2018) cover safe-life limits up to a Design Service Goal of 20,000 flights/30,000 flying hours. The manual states it applies to the F900, so confirm 900EX applicability. An aircraft is 'standard' only if its primary structure matches the type design. An STC or a repair not reviewed by Dassault makes it non-standard.

MISSION HISTORY AND CORROSION

Regular search and rescue, target towing, scientific research, cargo or flight training use means the aircraft is no longer 'standard'. The operator must keep Principal Structural Elements at corrosion level 1 or better under a CPCP. Level 2 or 3 findings must be reported to Dassault. Ask for the full corrosion and mission history.

BRAKES AND LIFE-LIMITED PARTS

Brake assembly 5014198 has 3 rotating disks and 2 stationary disks. The stack kit is part 5014288 (new) or 5014289 (refurbished). Chapter 5-40 also lists life-limited gear legs (20000 LDG) and flap screw-jack overhaul, upgrade and play checks. Valve overpressure checks were updated to every 1640 FH. Review the records for each.

SAFETY NOTES

- Aircraft with unapproved STCs or repairs fall outside the standard program. It must be adapted with added continued-airworthiness instructions.
- Verify compliance records for the mandatory Chapter 5-40 tasks, including flap screw jacks and life-limited gear legs.
- Check the pitch auxiliary AFU against its 2000 LDG limit.

AI-aggregated guide for the DASSAULT FALCON 900EX · sources: Brake Assembly 5014198 Parts List (#101196) · FALCON 900 MAINTENANCE MANUAL (#102796) · generated 2026-11-24 · Reference only, not for flight. Check the original documents before relying on this guide.