



## Chapter 10 - Hydraulics



Photo by: Anton Heumann

### INTRODUCTION

The elastomeric based rotor system on the AS350 creates in flight dynamic forces that cause feedback loads in the cockpit flight controls. To counteract these forces the AS350 is equipped with a single hydraulic system that assists with the pitch changes and dampens out dynamic feedback on the main and tail rotor blades.

### GENERAL

The hydraulic system is comprised of a reservoir, variable delivery pump, a hydraulic distribution block, 3 servo control manifolds, 3 main rotor servos, a single tail rotor servo and on certain models a yaw load compensator.

The reservoir is mounted on the main gearbox and gravity feeds to the hydraulic pump. The pump is belt driven off of the engine to main gearbox drive shaft and provides pressurized fluid for the system.

The hydraulic distribution block houses a hydraulic filter, a pressure regulating valve, a hydraulic pressure switch, a hydraulic test solenoid and on certain models a hydraulic filter clogging indicator.

The hydraulic filter removes contaminants from the hydraulic fluid and the clogging indicator gives a visual warning of a impending blockage. The pressure regulating valve keeps the systems pressure at a constant and the hydraulic pressure switch activates the red HYD light on the caution and warning panel and the horn. The hydraulic test solenoid valve, when activated, routes pressurized fluid from the pump back to the reservoir.

Each of the three main rotor hydraulic servos is fitted with a servo control manifold. Each servo control manifold houses a one way check valve, an accumulator and an isolation solenoid valve.

# As350 Squirrel Flight Manual

**Matt Wagner**



## **As350 Squirrel Flight Manual:**

The AS 350/355 Book Phil Croucher, 2014 A book about the AS 350 and the AS 355 and their operating characteristics

**Flight International** ,1987    **Flypast** ,2006    **Interavia** ,1986-07    *Jane's All the World's Aircraft* ,2009

**British Technology Index** ,1977    **Aircraft 35 OE Flight Manual** ,1987    **A-10C Warthog Flight Manual** Matt

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