



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 Manual

American Society of Cinematographers

A red circular graphic with a gradient, appearing as a stylized lens flare or a light effect, positioned to the right of the American Society of Cinematographers text.

As350 Manual:

ACMG Ski Guiding Manual Association of Canadian Mountain Guides,2023-11-15 This manual was developed to support the ACMG s Training and Assessment Program TAP courses in the ski guiding stream and as a reference for ACMG certified guides

Federal Aviation Administration Aeronautical Information Manual Official Guide to Basic Flight Information and ATC Procedures United States Federal Aviation Administration,2012 Federal Aviation Administration Aeronautical Information Manual AIM Official guide to basic flight information and Air Traffic Control procedures August 26 2012 Chartbundle rev A

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

FAA Airworthiness Directive ,1983

Mergent Transportation Manual ,2001

AS350 Aerospatiale (Firm). Division Helicopteres. Sous-Direction après vente,1980

Moody's Transportation Manual ,1996

Federal Register ,2013-09

American Cinematographer Manual American Society of Cinematographers,2007 This newly revised edition of the American Cinematographer Film Manual continues to be the standard providing fully updated comprehensive coverage of cinematography from production to post Performing Arts

AS350 Aerospatiale (Firm). Division Helicopteres. Sous-Direction après vente,1979

As350 Manual Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**As350 Manual**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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