

**MCDONNELL DOUGLAS  
HELICOPTER COMPANY  
SERVICE INFORMATION LETTER**

LETTER NO HL-24  
DATE 9 FEB 1973  
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TO—All owners and operators of Hughes Helicopters

SUBJECT: COLD WEATHER TORQUE ADJUSTMENT - MAIN ROTOR DAMPER  
ASSEMBLY, 369A1400, 369A1400-601, 369A1400-603

MODELS AFFECTED: All Model 369H Series Helicopters with Subject Main Rotor  
Damper Assemblies Installed

Reference

500 Series - Basic HMI, Issued 1 October 1972

On certain occasions, it may be possible to smooth out a main rotor damper or eliminate a one-to-one lateral vibration by reducing the damper torque to the minimum allowable setting. It is important, however, that the proper minimum torque value be used. This is especially true when adjusting the dampers in extreme low temperatures.

The table below provides equivalent minimum torque settings for various indoor or outdoor ambient temperatures. For example, if the helicopter is hangered or exposed at a temperature of +40° F, set the damper torque to 289 inch-pounds; at a temperature of -20° F, set the damper torque to 265 inch-pounds.

Temperature Versus Damper Torque

<u>Ambient Temperature</u> <u>(Degrees F)</u>	<u>Minimum Damper Torque</u> <u>(Inch-Pounds)</u>
+70	300
+40	289
0	278
-20	265
-40	243

Product Support Department

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For optimum results, all dampers should be set to the same torque value, and should be soaked to the ambient (indoor or outdoor) temperature at least five hours prior to making minimum torque adjustments as noted in the table.

A handwritten signature in black ink, appearing to read "Edward Koch". The signature is written in a cursive style with a large, sweeping initial "E".

Edward Koch, Manager  
Customer Service Department  
Hughes Helicopters  
A Division of Summa Corporation