

**HUGHES
SERVICE INFORMATION
LETTER**

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TO—All owners and operators of Hughes Helicopters

SUBJECT: ENGINE INLET, AIR PARTICLE SEPARATOR FILTER
INSTALLATION PN 369H90148 OPTIONAL INSTALLATION
AVAILABILITY

REFERENCE: Engine Air Particle Separator Filter Installation Kit
Part No. 369H90148 Installation Instructions

MODELS AFFECTED: 369HS, HE and HM Helicopter Serial No's 101 and
subsequent, equipped with either 250 C18 or C20 engine

Helicopter operations in a dusty environment have proven to be extremely detrimental to engine life in a turbine power aircraft due to the large volume of air taken into the engine. Hughes has developed the particle separator filter system to eliminate a major percentage of the contaminants.

The separator is an electro-mechanical device powered by bleed air from the engine. Intake air passes through the filter; swirl guides in the filter tubes swirl the air, separating the heavier particle contaminants from the air. The separator collects foreign particles which are discharged overboard through the filter ejector, aspirated by engine bleed air and controlled by on or off switch. The particle separator system incorporates a sensing system which will indicate a clogged filter to the pilot by means of a warning light. When the filter is clogged a manually operated air by-pass system may be activated by the pilot. This filter system is not intended to replace the Automatic Reignition Kit PN369H90118 for operation in snow but can be used in conjunction with the Automatic Reignition Kit.

Full details on procurement of the kit may be obtained by contacting the Parts Department.

Edward Koch, Manager
Customer Service Department
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