



**HUGHES
SERVICE INFORMATION
LETTER**

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FOR TRAINING USE ONLY

TO—All owners and operators of Hughes Helicopters

SUBJECT: MIXING MAIN ROTOR TRANSMISSION GEARS

MODELS AFFECTED: All 269A (TH-55A) Helicopter Serial Nos. 0314 and subsequent

Reference

269A/A-1/TH-55A Handbook of Maintenance Instruction, Reissued 15 Dec. 1967

As a result of considerable testing of mixed main rotor transmission gears at Ft. Wolters, it is now permissible to install a new P/N 269A5103 pinion gear with a used P/N 269A5104 ring gear.

At present, mixing of the subject gears is limited to a new 5103 pinion, and a used 5104 ring gear in good condition and with no more than 500 hours of prior service.

Additional testing is being conducted with pinion and ring gears having even greater spread between times in service. When the results of these tests indicate it is feasible, the manufacturer will authorize such installation.

It is to be noted that mixing a used 5103 pinion and a used 5104 ring gear is not permitted, i. e., replacement of the ring gear requires replacement of the pinion gear.

The overhaul cycle for the P/N 269A5175 Main Rotor Gear Drive Assembly has been increased to 2250 hours. To accomplish overhaul and "zero-time" the gear drive assembly, all items listed in the HMI Overhaul Addendum must be replaced at the gear drive assembly overhaul time of 2250 hours.