

# Service Information Letter

The technical content of this letter is FAA Approved

Letter No. A-134

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## MANDATORY REPLACEMENT OF THE TURBINE WHEEL & SHAFT ASSEMBLY

### INTRODUCTION:

Recently, Kelly Aerospace Energy Systems, LLC released revision A of the 400600-0000 Turbocharger Overhaul and Maintenance manual. Although there were a substantial number of changes and corrections, none have brought more comment than the new requirement to replace the turbine wheel and shaft assembly at each overhaul period. Our years of experience in turbocharger overhaul coupled with our manufacturing and engineering expertise have led us to this mandatory requirement. The inspection criteria for continued service of the turbine wheel and shaft assembly remains in our overhaul manual for the purpose of repair operations only and was not deleted by the revision. For repair operations, the turbine wheel and shaft assembly may still be suitable for use if undamaged and inspected properly. To this end however, an inconsistency exists in the manual regarding replacement of the turbine wheel and shaft assembly.

A generic statement in the overhaul section of both the 400 and 600 type of turbochargers indicate, "The following parts (Table ---) must be replaced at each (model) overhaul and whenever the turbocharger is disassembled to the extent that these parts are removed." This statement, while it remains true **does not apply** to the turbine wheel and shaft assembly **when or if a repair is applicable**. To clarify the intent and reduce confusion, at next revision this statement will be revised to incorporate repair scenarios. *(Note: Until the manual is revised, this service bulletin will give you the authority to reuse a turbine wheel and shaft assembly that is properly inspected and good when a repair not affecting the turbine wheel and shaft assembly is being done.)*

This Service Information Letter is issued to provide factory guidance for the replacement of the turbine wheel and shaft assembly, if performing a repair only, due to a conflicting statement generated by revision A of the 400600-0000 Turbocharger Overhaul and Maintenance manual.

### COMPLIANCE:

To coincide with the repair or overhaul of any Kelly Aerospace Energy Systems, LLC turbocharger of any model or type Including those units made by Garrett/AirResearch, AlliedSignal Garrett/Honeywell, Consolidated Fuels, RotoMaster, and RAJAY.

### EFFECTIVITY:

All Kelly Aerospace Energy Systems, LLC turbocharger of any model or type Including those units made by Kelly Aerospace Power Systems, Garrett/AirResearch, AlliedSignal Garrett/Honeywell, Consolidated Fuels, RotoMaster, and RAJAY.

*For questions concerning this instruction please contact KAES, Service Dept. at (888) 461-6077. Contact your local KAES distributor to purchase available service parts.*

## **PROCEDURE:**

1. When performing a repair or overhaul on any aircraft turbocharger (per the effectivity above) observe all procedures and requirements contained in the 400600-0000 overhaul and maintenance manual ***with the exception as stated in step 2 below***. Remember, the turbine wheel and shaft assembly is a mandatory replacement part which still must be replaced at turbocharger overhaul.
2. If ***any repair*** is being performed where the ***turbine wheel and shaft assembly is not affected*** in any manner, remove and inspect the turbine wheel and shaft assembly per the 400600-0000 overhaul and maintenance manual's Chapter 2 specifications. If the turbine wheel and shaft assembly meet these specifications, continued use is permitted in a repaired turbocharger.
3. Upon completion of any turbocharger repair make an appropriate aircraft logbook entry as normal but a statement should be added showing compliance with this Service Information Letter. The additional entry should give the statement, "Per Kelly Aerospace Energy Systems Service Information Letter A-134, the turbine wheel and shaft assembly used in this repaired turbocharger was inspected per Chapter 2 specifications of the 400600-0000 Turbocharger Overhaul and Maintenance manual and was found suitable for continued use."

## **WARRANTY STATEMENT:**

No warranty or other participation is applicable to this service publication. Acknowledgment and understanding of this service bulletin is fully the responsibility of the service facility and/or the owner of the affected product. The issuance and use of the 400600-0000 Turbocharger Overhaul and Maintenance manual and any revisions thereafter in no way constitutes an implied or expressed warranty of any kind.

This publication does not imply or state any responsibility for the workmanship of any person or entity performing work or maintenance on the turbocharger or turbocharging system. Unless specified by Kelly Aerospace Energy Systems, LLC in writing, using any non-Kelly part or component installed is prohibited and will void any outstanding or remaining warranty and shall apply a full share of liability to the owner, operator, and service facility choosing this action.

## **CONTACT INFORMATION:**

If you have any questions concerning this service information letter, please contact Kelly Aerospace Energy Systems Technical Support at 888-461-6077. Or write:

**Kelly Aerospace Product Support  
2900 Selma Highway  
Montgomery, AL 36108, USA**