

## **Customer Support Policy Letter No. 0109K-2**

This Policy Letter is applicable to all models/configurations of ALF502R, ALF502L, and LF507 Honeywell Bank Engines. This Policy Letter describes the Engine Maintenance and Inspection Requirements Prior to Return from a Rental Period.

This Customer Support Policy Letter No. 0109K-2 replaces Customer Operations Policy No. 0109, 0109K, and 0109K-1 all of which should be discarded.

This Customer Support Policy Letter is intended to provide instructions for maintenance of ALF502 and LF507 lease/consignment engines. Also included are the engine record assessments, and inspection requirements at the termination of engine usage and prior to return to Honeywell. Failure to accomplish these instructions may subject the user to charges for damages, missing hardware, missing paperwork, and/or unnecessary wear to the engine.

### Maintenance Program

1. Adhere to all procedures contained on applicable Engine Manuals (EM), Component Maintenance Manuals (CMM), and Airframe Manufacturer's Maintenance Manuals (AMM) and operating manuals, Service Bulletins (SB), Service Information Letters (SIL), and applicable regulatory agency airworthiness directives (AD).
2. Minimize operational exposure to demanding flight profiles and adverse environmental conditions.
3. Use of unapproved fuels, oils, materials or unauthorized hardware for incorporation into the engine is prohibited.
4. Perform the inspection checks and maintenance actions not to exceed the recommended intervals in accordance with instructions in the latest revisions of the applicable SB LF507-1F, LF507-1H 72-1, ALF502 72-0001, ALF502 72-0004, Component Service Life Limits, ALF502 72-0005 Engine and Accessory Time Between Overhaul (TBO), and Engine Time Between Inspections (TBI).
5. All work performed must be recorded in the applicable engine's logbook and is the responsibility of the lesser. The engine logbook must accompany the engine at the termination of the lease.
6. Utilize trend monitoring or some other form of gas path analysis approved by Honeywell. Daily recording of performance data is required. For details refer to Textron Lycoming Service Letter dated August 22, 1986 entitled "Trend Monitoring." Data must be plotted and reviewed a minimum of once every 30 flight cycles. At the conclusion of the lease, the trends and/or data collected throughout the entire duration of the lease term are to be provided to the Honeywell Bank Engine Manager.

7. The engine(s) must be returned at a minimum in the same general overall condition as received at the beginning of the lease period. This includes all bills of material hardware, components, and accessories present and properly installed and/or attached to the engine in accordance with the published Honeywell engine manual or Airframe Manufacturer's Maintenance Manual (AMM).
8. Whenever operationally possible, use flexible thrust take-off procedures.

**NOTE**

Operator must incorporate or allow access for incorporation of any airworthiness directive, mandatory Service Bulletin or any recommended Service Bulletin that Honeywell requests be incorporated in these engines.

This Policy Letter is binding to the operator and may be updated without notice at any time by Honeywell. Any escalation of task frequencies may be allowed only with local regulatory agency approval and prior written permission by Honeywell.

9. Complete and return Post Lease/Consignment guidelines (attached) at the termination of engine usage, prior to the engines' return to Honeywell.

**NOTE**

To obtain satisfactory results, procedures in this publication must be accomplished in accordance with accept industry maintenance practices and prevailing government regulations. Honeywell is not responsible for the quality of work performed in complying with this publication unless Honeywell performs such work. Such responsibility rests with the entity performing the work and the operator.

**POST-LEASE/CONSIGNMENT GUIDELINES  
PART I – RECORDS CHECK  
ENGINE/MODULE RECORDS ASSESSMENT**

1. All maintenance actions performed by the operator on the engine shall be indicated in the following assessments:

ENGINE/MODULE S/N \_\_\_\_\_ PREPARER'S NAME \_\_\_\_\_

MODEL \_\_\_\_\_ OPERATOR \_\_\_\_\_

ENGINE TTSN/TCSN \_\_\_\_\_ DATE OF ASSESSMENT \_\_\_\_\_

PART 1 – RECORDS CHECK

ITEM INSPECTION/WORK TO BE PERFORMED	RESULTS/REMARKS
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1. Review engine logbook and confirm all modules and accessories reflect the correct part and serial number.
2. Ensure that all maintenance actions performed during the lease/consignment period have been entered into the logbook and are properly documented.
3. Identify any airworthiness directives or mandatory Service Bulletins that require accomplishment.

**POST-LEASE/CONSIGNMENT GUIDELINES  
PART II – SPECIAL INSPECTION AND  
GROUND RUN INSTRUCTIONS**

ENGINE S/N \_\_\_\_\_ POSITION \_\_\_\_\_

MODEL \_\_\_\_\_

OPERATOR \_\_\_\_\_

DATE OF INSPECTION \_\_\_\_\_

PART II – A. STATIC INSPECTION

ITEM INSPECTION/WORK TO BE PRFORMED	RESULTS/REMARKS
1. Perform external inspection of engine pay particular attention to the following: fuel/oil leakage, missing hardware, loose bolts/fittings and broken or frayed wiring.	
2. Inspect all engine chip detectors and record condition	FFCD _____ AGB CD _____ NO. 2 CD _____ NO. 4/5 CD _____
3. Inspect oil filter cap for impending bypass indication	YES _____ NO _____
4. Inspect fan and 4 <sup>th</sup> turbine disc assembly for FOD	YES _____ NO _____
5. Rotate fan (N1) and note any binding or unusual noise	If YES, indicate damage _____

**POST-LEASE/CONSIGNMENT GUIDELINES  
PART II – SPECIAL INSPECTION AND  
GROUND RUN INSTRUCTIONS (CONT.)**

ENGINE S/N \_\_\_\_\_ POSITION \_\_\_\_\_  
 MODEL \_\_\_\_\_  
 OPERATOR \_\_\_\_\_  
 DATE OF INSPECTION \_\_\_\_\_

PART II – B. GROUND RUN INSPECTION

ITEM INSPECTION/WORK TO BE PERFORMED	RESULTS/REMARKS
1. Record start TGT: indicate engine position	GI: _____ degrees C
With engine stabilized at GI, record N1, N2	Oil Press.: _____ PSI
	N1 _____%
	N2 _____%
2. Vibration, oil pressure, TGT, and oil temp. Adjust parameters as required to meet acceptable limits.	Oil Temp _____ PSI Vibration _____ IPS TGT _____ degrees C
3. Perform leak check with zone 1 and 2 cowls open.	
4. Adjust bleed bank trim as necessary per Honeywell Engine Manual.	Bleed Bank Open: _____ % N2
5. Adjust T.O. trust trim as necessary per Honeywell Engine Manual.	T.O. Thrust Trim: _____ % N2