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# Service Letter

Service Letter No. 073

## TA04 & TA36 Turbocharger Left-Hand Thread Turbine Wheel Assembly Change Notification

### 1. Planning Information

#### A. Effectivity

- (1) AeroForce Turbocharger models TA0401, TA0402, TA0411 and TA3601 manufactured by Hartzell Engine Technologies LLC (HET) with installed Turbine Wheel Assembly P/N 407276-0006 and -0019, P/N 410188-0019, P/N 410188-0025, P/N 410188-0028, and Compressor Wheel Nut P/N 400768-0011 are affected by this Service Letter. Refer to **Table 1** for affected turbocharger model and part number list.

**WARNING:** DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS SERVICE LETTER. INFORMATION CONTAINED IN THIS SERVICE LETTER MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THIS SERVICE LETTER OR THE USE OF OBSOLETE INFORMATION MAY CREATE AN UNSAFE CONDITION THAT MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE. REFER TO THE AEROFORCE WEBSITE ([WWW.AEROFORCE.AERO](http://WWW.AEROFORCE.AERO)) FOR THE MOST RECENT REVISION LEVEL OF THIS SERVICE LETTER.

#### B. Concurrent Requirements

- (1) None

#### C. Reason

- (1) HET Turbocharger Maintenance and Overhaul Manual P/N 400600-0000 Rev. B has been updated to Rev. C, which contains information from **Table 2** of this Service Letter along with additional maintenance instructions. Refer to the AeroForce website ([www.aeroforce.aero](http://www.aeroforce.aero)) for the most recent FAA approved revision of the Turbocharger Maintenance and Overhaul Manual.
- (2) As a product improvement and standardization of TA04 and TA36 series turbochargers, HET has superseded the Turbine-wheel Assembly and Compressor Wheel Nut to incorporate left-hand threads. The superseded part numbers and replacement parts may be found in **Table 2** of this Service Letter.

**NOTE:** Information from **Table 2** can be found in Rev. C or later FAA approved revision of the HET Turbocharger Maintenance and Overhaul Manual P/N 400600-0000.

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#### D. Description

- (1) This Service Letter addresses affected turbocharger part numbers that have a design modification which changes the affected Turbine Wheel right-hand thread assembly and Compressor Wheel Nut to a Turbine Wheel left-hand thread assembly and Compressor Wheel Nut. See **Figure 1.1** for Turbine Wheel Assembly and Compressor Wheel Nut illustration.
- (2) Turbine Wheel Assembly P/N 407276-0006 and -0019, P/N 410188-0019, P/N 410188-0025, P/N 410188-0028 and corresponding Compressor Wheel Nut, P/N 400768-0011 are superseded when current Turbine Wheel inventory is exhausted. Existing unused inventory remains suitable for sale and use.

**NOTE:** Turbine Wheel Assembly and Compressor Wheel Nut original part numbers are superseded when right-hand thread inventory is exhausted.

#### E. Approval

- (1) FAA acceptance has been obtained on the technical data in this publication that affects type design.

#### F. Manpower

- (1) No additional man-hours required when performed at overhaul.

#### H. References

- (1) HET 400600-0000 Rev. C or later FAA approved revision - Turbocharger Maintenance & Overhaul Manual

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Model Number	HET P/N	OEM P/N
TA0401	465292-0001	C295001-0301
	465292-0002	C295001-0304
	465292-0004	642518-4
	465292-9001	-
	465292-9002	-
	465292-9004	-
TA0402	465398-0002	LW-16264
	465398-9002	LW-16264-85
TA0411	466642-0001	649151-1
	466642-0002	649151-2
	466642-0005	46C19839
	466642-0006	46C22924
	466642-0007	656890
	466642-9001	-
	466642-9002	-
	466642-9005	46C19839-85
466642-9006	46C22924-85	
TA3601	466304-0003	646677
	466304-9003	-

**Affected Turbocharger Models and Part Numbers**  
**Table 1**

**NOTE:** Turbochargers with HET part numbers ending with -0xxx are New. Turbochargers ending with -9xxx are Factory Rebuilt.

### 2. Material Information

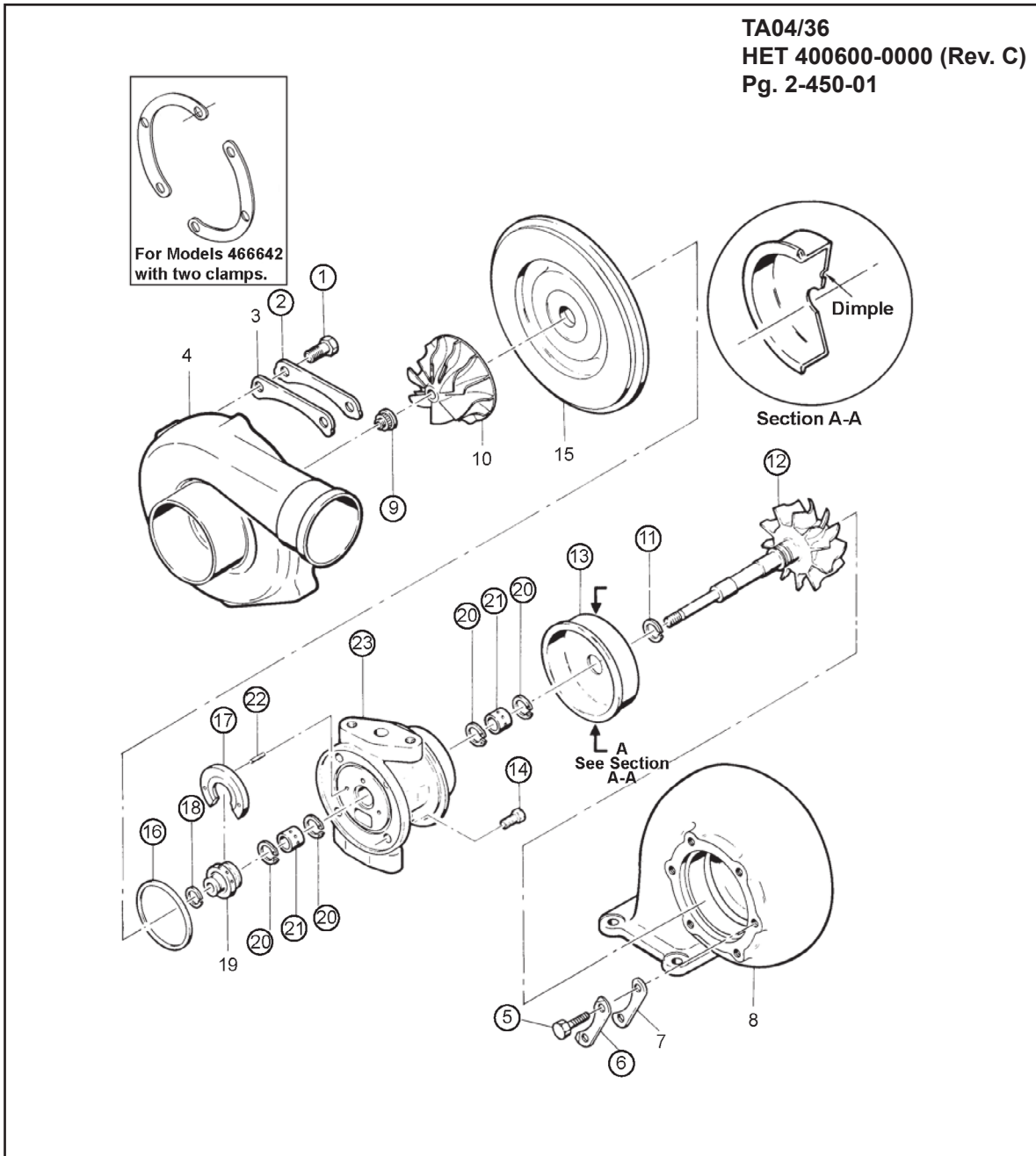
A. Refer to **Table 2** of this Service Letter for affected Turbine Wheel Assembly and Compressor Wheel Nut replacement parts.

**NOTE:** Existing unused inventory remains suitable for sale and use. Turbine Wheel Assembly and Compressor Wheel Nut original part numbers are superseded when right-hand thread inventory is exhausted.

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**Turbine Wheel Assembly (Itm# 12) and Compressor Wheel Nut (Itm# 9)  
Figure 1.1**

# Service Letter

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## TA04 & TA36 Turbocharger Left-Hand Thread Turbine Wheel Assembly Change Notification

Affected Turbocharger P/N	Turbine Wheel Assembly Original P/N (Right-Hand Thread)	New Turbine Wheel Assembly P/N (Left-Hand Thread)	New Compressor Wheel Nut P/N
465292-0001 465292-0002 465292-0004 465292-9001 465292-9002 465292-9004	407276-0006 or -0019	490034-0006 or -0019	444205-0001
466304-0003 466304-9003	410188-0025	490033-0025	444205-0001
465398-0002 465398-9002	407276-0006 or -0019	490034-0006 or -0019	444205-0001
466642-0001 466642-0002 466642-0006 466642-9001 466642-9002 466642-9006	410188-0019	490033-0019	444205-0001
466642-0005 466642-0007 466642-9005	410188-0028	490033-0028	444205-0001

**Cross-Reference - T-Wheel Assembly and Compressor Wheel Nut  
Table 2**

**NOTE:** Turbochargers with HET part numbers ending with -0xxx are New. Turbochargers ending with -9xxx are Factory Rebuilt.

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### 4. Contact Information

A. Contact HET Product Support for all communications regarding the technical content of this Service Letter.

(1) Phone +1.334.386.5400 (Option 2)

(2) Fax +1.334.386.5450

(3) E-mail at [techsupport@HartzellEngineTech.com](mailto:techsupport@HartzellEngineTech.com)

(4) Address

Hartzell Engine Technologies LLC

2900 Selma Highway

Montgomery, AL 36108

USA