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# MANDATORY

# SERVICE BULLETIN

DATE: March 6, 2014 Service Bulletin No. 613  
Engineering Aspects are  
FAA Approved

SUBJECT: Compliance with Hartzell Engine Technologies (HET), LLC (Previously Kelly Aerospace) Alert Service Bulletin No. 057 dated 2/11/14, Turbocharger Back Plate Assembly P/N 406795-0058 Replacement

MODELS AFFECTED: New, rebuilt, or overhauled Lycoming engine models and spares identified in Tables 1 and 2  
Lycoming turbocharger P/N's LW-12463, LW-13987, and LW-18470 field-overhauled or repaired with back plate (HET) P/N 406795-0058 (Refer to the latest revision of (HET) Alert Service Bulletin No. 057.)

TIME OF COMPLIANCE: Refer to the "Compliance" section of HET Alert Service Bulletin No. 057

### NOTE

Incomplete review of all the information in this document can cause errors. Read the **entire** Service Bulletin to make sure you have a complete understanding of the requirements.

This Service Bulletin is notification for **mandatory compliance** with HET's Alert Service Bulletin No. 057 dated 2/11/2014, Turbocharger - Back Plate Assembly P/N 406795-0058 Replacement.

**Hartzell Engine Technologies Alert Service Bulletin No. 057 dated 2/11/2014 is reprinted in its entirety as follows and is current at the time Lycoming Service Bulletin No. 613 is issued. However, compliance with this Service Bulletin is to be in accordance with the latest revision of the Hartzell Engine Technologies Alert Service Bulletin No. 057.**

An undersized condition may exist in the oil feed passage at the thrust bearing in some (HET) P/N 406795-0058 back plate assemblies. (HET) Alert Service Bulletin 057 requires the removal from service new or rebuilt turbochargers using affected (HET) P/N 406795-0058 back plate assemblies and requires the removal from inventory or service any affected (HET) P/N 406795-0058 back plate assemblies.

This Service Bulletin applies to new or rebuilt turbochargers, Lycoming P/N LW-12463, LW-13987, and LW-18470 (Table 3 HET S.B. 057) using affected back plate assemblies (HET) P/N 406795-0058. Units installed and shipped on Lycoming engine models are identified in Table 1 and subject to (HET) Alert Service Bulletin No. 057. One unit shipped from Lycoming as a spare is identified in Table 2 and is subject to (HET) Alert Service Bulletin No. 057.

### NOTE

If your engine has an overhauled or rebuilt turbocharger, refer to the attached (HET) Alert Service Bulletin No. 057. Review HET Alert Service Bulletin 057 in its entirety for complete details.



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**Warranty Instructions for Lycoming-Supplied Turbochargers in Tables 1 and 2 of Lycoming Service Bulletin No. 613:**

- A. Contact an Authorized Lycoming Distributor to order a replacement turbocharger P/N LW-12463-85.
- B. Upon receipt, replace turbocharger P/N LW-12463 with turbocharger P/N LW-12463-85.
- C. Return turbocharger P/N LW-12463 to Lycoming through the same Authorized Lycoming Distributor that ordered the replacement turbocharger P/N LW-12463-85 and file a warranty claim for:
  - 1. Reimbursement of the replacement turbocharger P/N LW-12463-85.
  - 2. Associated Freight.
  - 3. Removal and Reinstallation Labor in accordance with the current applicable Lycoming Warranty Policy and latest revision of Lycoming's SSP-875 Removal and Installation Labor Allowance Guidebook.

If you have any questions, contact Lycoming Field Service by phone at 570-327-7222 or 877-839-7878.

**NOTE**

Warranty consideration is available for 12 months from the date of issue of this Service Bulletin.

**Table 1  
Turbocharger S/N's Shipped on Lycoming Engines  
and Subject to HET Alert Service Bulletin No. 057**

<b>Lycoming Turbocharger P/N</b>	<b>Turbocharger S/N</b>	<b>Engine Model</b>	<b>Engine S/N</b>
LW-12463	H-PFL00205	TIO-540-J2B	L-2708-61A
LW-12463	H-PHL00015	TIO-540-J2B	L-3525-61A
LW-12463	H-PHL00016	TIO-540-J2B	L-4166-61A
LW-12463	H-PGL00205	TIO-540-J2B	L-4283-61A
LW-12463	H-QAL00209	TIO-540-J2B	L-4752-61A
LW-12463	H-QDL00132	TIO-540-J2B	L-5975-61A
LW-12463	H-PJL00094	TIO-540-J2B	L-7161-61A
LW-12463	H-PGL00092	TIO-540-J2B	L-9379-61A
LW-12463	H-PFL00437	TIO-540-J2B	L-9433-61A
LW-12463	H-PGL00129	TIO-540-J2B	L-10066-61A
LW-12463	H-PKL00041	TIO-540-J2B	L-10671-61A
LW-12463	H-QAL00210	TIO-540-J2B	L-10677-61A
LW-12463	H-PKL00103	TIO-540-J2B	L-10916-61A
LW-12463	H-QBL00081	TIO-540-J2B	L-11839-61A
LW-12463	H-QBL00086	TIO-540-J2B	L-13266-61A
LW-12463	H-PJL00090	TIO-540-J2B	L-13925-61A
LW-12463	H-PJL00087	TIO-540-J2B	L-13941-61A
LW-12463	H-QDL00145	TIO-540-J2B	RL-2396-61A

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**Table 1 (Cont.)**  
**Turbocharger S/N's Shipped on Lycoming Engines**  
**and Subject to HET Alert Service Bulletin No. 057**

<b>Lycoming Turbocharger P/N</b>	<b>Turbocharger S/N</b>	<b>Engine Model</b>	<b>Engine S/N</b>
LW-12463	H-PKL00038	TIO-540-J2B	RL-3723-61A
LW-12463	H-PHL00073	TIO-540-J2B	RL-4914-61A
LW-12463	H-PIL00083	TIO-540-J2B	RL-5119-61A
LW-12463	H-QBL00085	TIO-540-J2B	RL-543-61A
LW-12463	H-QJL00118	TIO-540-J2B	RL-5676-61A
LW-12463	H-PGL00206	TIO-540-J2B	RL-10196-61A
LW-12463	H-PKL00040	TIO-540-J2B	RL-10930-61A
LW-12463	H-QDL00133	TIO-540-J2BD	L-3230-61A
LW-12463	H-PKL00110	TIO-540-J2BD	L-6533-61A
LW-12463	H-PIL00086	TIO-540-J2BD	L-8225-61A
LW-12463	H-PHL00309	TIO-540-J2BD	L-8413-61A
LW-12463	H-PKL00043	TIO-540-J2BD	L-8543-61A
LW-12463	H-PFL00436	TIO-540-J2BD	L-9034-61A
LW-12463	H-PKL00046	TIO-540-J2BD	L-9255-61A
LW-12463	H-PHL00077	TIO-540-J2BD	L-10435-61A
LW-12463	H-PHL00014	TIO-540-J2BD	L-11001-61A
LW-12463	H-QAL00214	TIO-540-J2BD	L-11125-61A
LW-12463	H-PKL00106	TIO-540-J2BD	L-13489-61A
LW-12463	H-PJL00091	TIO-540-J2BD	L-13952-61A
LW-12463	H-QEL00134	TIO-540-J2BD	L-14048-61A
LW-12463	H-PJL00088	TIO-540-J2BD	RL-1629-61A
LW-12463	H-QDL00131	TIO-540-J2BD	RL-2711-61A
LW-12463	H-PKL00037	TIO-540-J2BD	RL-5300-61A
LW-12463	H-PKL00105	TIO-540-J2BD	RL-5548-61A
LW-12463	H-PGL00094	TIO-540-J2BD	RL-9391-61A
LW-12463	H-PFL00399	TIO-540-J2BD	RL-9510-61A
LW-12463	H-PKL00042	TIO-540-J2BD	RL-9521-61A
LW-12463	H-QBL00087	TIO-540-J2BD	RL-10388-61A
LW-12463	H-PHL00013	TIO-540-J2BD	RL-10641-61A
LW-12463	H-QAL00215	TIO-540-J2BD	RL-11043-61A
LW-12463	H-QBL00079	TIO-540-J2BD	RL-11050-61A
LW-12463	H-PJL00089	TIO-540-J2BD	RL-12649-61A
LW-12463	H-PKL00045	LTIO-540-J2B	L-105-68A
LW-12463	H-PHL00310	LTIO-540-J2B	L-574-68A
LW-12463	H-QAL00213	LTIO-540-J2B	L-1147-68A
LW-12463	H-QAL00211	LTIO-540-J2B	L-1287-68A
LW-12463	H-QBL00088	LTIO-540-J2B	L-1425-68A
LW-12463	H-QBL00080	LTIO-540-J2B	L-1584-68A

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**Table 1 (Cont.)  
Turbocharger S/N's Shipped on Lycoming Engines  
and Subject to HET Alert Service Bulletin No. 057**

<b>Lycoming Turbocharger P/N</b>	<b>Turbocharger S/N</b>	<b>Engine Model</b>	<b>Engine S/N</b>
LW-12463	H-PHL00311	LTIO-540-J2B	L-1703-68A
LW-12463	H-PKL00107	LTIO-540-J2B	L-1894-68A
LW-12463	H-QBL00083	LTIO-540-J2B	L-2044-68A
LW-12463	H-QDL00129	LTIO-540-J2B	L-2389-68A
LW-12463	H-PGL00096	LTIO-540-J2B	L-2713-68A
LW-12463	H-PFL00206	LTIO-540-J2B	L-2785-68A
LW-12463	H-PHL00075	LTIO-540-J2B	L-3017-68A
LW-12463	H-PIL00084	LTIO-540-J2B	RL-1395-68A
LW-12463	H-PFL00438	LTIO-540-J2B	RL-2311-68A
LW-12463	H-PGL00093	LTIO-540-J2B	RL-2447-68A
LW-12463	H-PHL00074	LTIO-540-J2B	RL-2512-68A
LW-12463	H-PJL00093	LTIO-540-J2BD	L-1255-68A
LW-12463	H-PJL00092	LTIO-540-J2BD	L-1342-68A
LW-12463	H-PKL00044	LTIO-540-J2BD	L-1977-68A
LW-12463	H-PHL00308	LTIO-540-J2BD	L-2203-68A
LW-12463	H-PKL00108	LTIO-540-J2BD	L-2290-68A
LW-12463	H-PFL00434	LTIO-540-J2BD	L-2354-68A
LW-12463	H-QDL00134	LTIO-540-J2BD	L-2588-68A
LW-12463	H-PKL00039	LTIO-540-J2BD	L-3018-68A
LW-12463	H-PKL00102	LTIO-540-J2BD	L-3019-68A
LW-12463	H-QDL00146	LTIO-540-J2BD	L-3020-68A
LW-12463	H-PHL00017	LTIO-540-J2BD	RL-1108-68A
LW-12463	H-PHL00078	LTIO-540-J2BD	RL-1115-68A
LW-12463	H-QBL00082	LTIO-540-J2BD	RL-1323-68A
LW-12463	H-QBL00084	LTIO-540-J2BD	RL-1423-68A
LW-12463	H-QDL00130	LTIO-540-J2BD	RL-1464-68A
LW-12463	H-QDL00142	LTIO-540-J2BD	RL-1728-68A
LW-12463	H-PFL00435	LTIO-540-J2BD	RL-1940-68A
LW-12463	H-PGL00091	LTIO-540-J2BD	RL-2016-68A
LW-12463	H-PHL00018	LTIO-540-J2BD	RL-2312-68A
LW-12463	H-PGL00095	LTIO-540-J2BD	RL-2340-68A

The following affected Hartzell Turbocharger serial number has been shipped as a spare part.

**Table 2  
Turbocharger S/N Shipped from Lycoming and Subject to HET Alert Service Bulletin No.057**

<b>Lycoming Turbocharger P/N</b>	<b>Turbocharger S/N</b>
LW-12463	H-PHL00076

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# Alert Service Bulletin

## Alert Service Bulletin No. 057

### Turbocharger - Back Plate Assembly P/N 406795-0058 Replacement

1. Planning Information

A. Effectivity

- (1) Hartzell Engine Technologies LLC (HET) P/N 406795-0058 back plate assemblies received from HET between June 1, 2012 and September 30, 2013 are affected by this Alert Service Bulletin (ASB).
- (2) New and rebuilt turbocharger part numbers shown in Table 1 manufactured between June 1, 2012 and September 30, 2013 with serial numbers as shown in Table 2 are affected by this ASB.
- (3) All turbocharger part numbers which have been overhauled or repaired using an affected P/N 406795-0058 back plate assembly received from HET between June 1, 2012 and September 30, 2013 as shown in Table 1 are affected by this ASB.

**CAUTION:** DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS ALERT SERVICE BULLETIN (ASB). INFORMATION CONTAINED IN THIS ASB MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THIS ASB 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 HET WEBSITE FOR THE MOST RECENT REVISION LEVEL OF THIS ASB.

B. Concurrent Requirements

- (1) None.

C. Reason

- (1) Hartzell Engine Technologies has discovered that an undersize condition may exist in the oil feed passage at the thrust bearing in some P/N 406795-0058 back plate assemblies.
- (2) This condition may reduce thrust bearing lubrication to a degree sufficient to impair normal operation, with possible turbocharger seizure and reduction of engine power without warning.
- (3) Loss of lubrication may lead to component fragmentation which may introduce contaminating particles into the engine.
- (4) Regulatory action is unknown.

D. Description

- (1) This Alert Service Bulletin provides Instructions for Continued Airworthiness (ICA).
- (2) This Alert Service Bulletin requires the removal from service new or rebuilt turbochargers using affected HET P/N 406795-0058 back plate assemblies.
- (3) This Alert Service Bulletin requires the removal from inventory or service any affected HET P/N 406795-0058 back plate assemblies.

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## Turbocharger - Back Plate P/N 406795-0058 Replacement

- (4) This Alert Service Bulletin requires installation of P/N 406795-0058 back plate assembly not affected by this Alert Service Bulletin.

### E. Compliance

#### (1) Single Engine Aircraft:

- a. For turbochargers placed in service with affected back plate assemblies, compliance is required within ten (10) hours time in service from the date of issuance of this ASB or at the next regularly scheduled inspection, whichever occurs first.

#### (2) Multi Engine Aircraft:

- a. For turbochargers placed in service with affected back plate assemblies, compliance is required within twenty-five (25) hours time in service from the date of issuance of this ASB or at the next regularly scheduled inspection, whichever occurs first.

#### (3) Field Inventory:

- a. This Alert Service Bulletin requires the replacement of all existing inventory of affected back plate assemblies. Compliance is required before installation but no later than ninety (90) days from the original publication date of this Alert Service Bulletin.

- (4) Compliance with the Accomplishment Instructions is the terminating action for this Alert Service Bulletin.

### F. Approval

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

### G. Manpower

- (1) Refer to aircraft or engine labor time or service manuals for estimates regarding labor requirements for removal and installation of the turbocharger.
- (2) Three (3.0) man hours of labor are required for removal and replacement of an affected back plate from a turbocharger if needed.

### H. References

**CAUTION:** DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF A DOCUMENT.

- (1) Turbocharger overhaul manual, HET P/N 400600-0000 Rev. A or later.
- (2) Applicable Continental Motors or Lycoming Engines maintenance manuals
- (3) Applicable aircraft AFM or POH and maintenance manuals

### I. Other Publications Affected

- (1) None

### J. Weight and Balance

- (1) Not affected

## 2. Material Information

- A. One (1) each, back plate assembly, HET P/N 406795-0058 (not affected by this ASB).

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## Turbocharger - Back Plate P/N 406795-0058 Replacement

### 3. Accomplishment Instructions

**WARNING:** THIS PROCEDURE MUST BE PERFORMED BY COMPETENT AND QUALIFIED PERSONNEL WHO ARE FAMILIAR WITH ENGINE AND AIRFRAME MAINTENANCE THAT IS SPECIFIC TO THE TURBOCHARGING SYSTEM. FAILURE TO DO SO MAY RESULT IN ECONOMIC LOSS, EQUIPMENT DAMAGE, AND/OR PHYSICAL INJURY.

**CAUTION:** DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS ALERT SERVICE BULLETIN (ASB) AND THE APPLICABLE AIRCRAFT, ENGINE AND/OR HET 400600-0000 MAINTENANCE MANUAL. INFORMATION CONTAINED IN THESE MANUALS OR THIS ASB MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THIS ASB OR THE USE OF OBSOLETE INFORMATION MAY CREATE AN UNSAFE CONDITION THAT MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND SUBSTANTIAL PROPERTY DAMAGE. REFER TO THE APPLICABLE AIRCRAFT, ENGINE, MAINTENANCE MANUAL INDEX AND/OR THE APPLICABLE WEBSITE FOR THE MOST RECENT REVISION LEVEL OF THESE PUBLICATIONS.

#### A. Inspection

**NOTE:** Since some back plate assemblies were delivered as replacement parts, any repairs or field overhauls performed with back plates received from June 1, 2012 through September 30, 2013 on the turbocharger part numbers shown in Table 1 are affected. Positive identification of an affected back plate assembly replacement part must be made through the part delivery or field overhaul/repair documentation.

- (1) If a P/N 406795-0058 back plate assembly replacement part is in inventory, the only method to determine if it is affected is by referring to the delivery documentation (refer to date on FAA form 8130-3 ).
  - (a) If delivery dates of June 1, 2012 through September 30, 2013 are found for parts in inventory, the part is affected. Proceed to Corrective Action 3.B(1).
- (2) For turbocharger part numbers shown on Table 1 that were field overhauled between June 1, 2012 and issuance of this Alert Service Bulletin, review the overhaul documentation to determine whether an affected P/N 406795-0058 back plate assembly was installed. Consultation with the overhaul provider may be necessary to make this determination.
  - (a) If an affected P/N 406795-0058 back plate assembly was installed, proceed to Corrective Action 3.B.(2).
  - (b) If an affected P/N 406795-0058 back plate assembly was not installed, make a log book entry indicating the turbocharger is in compliance with this Alert Service Bulletin.
- (3) For new or rebuilt turbochargers in service or inventory, refer to Table 1 to determine the turbocharger part number and Table 2 for the serial number affected. Identification of part number and serial number may be made by visual inspection of the data plate or by aircraft/engine logbook entry.
  - (a) If an affected turbocharger is found, proceed to Corrective Action 3.B(2).

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## Turbocharger - Back Plate P/N 406795-0058 Replacement

### B. Corrective Action:

- (1) Return affected P/N 406795-0058 back plates found in inventory by sending directly to HET within ninety (90) days of the original publication date of this Alert Service Bulletin.

**NOTE 1:** Remove in accordance with the applicable aircraft and/or engine manufacturer's maintenance manuals or service instructions. ***If sending the turbocharger to any repair facility, do not send with fittings, oil reservoir or other engine/airframe parts as they may not be returned.***

**NOTE 2:** HET requires that turbocharger repair be accomplished by an FAA certificated repair station (or foreign equivalent) or certificated A & P mechanic experienced in servicing turbocharger systems utilizing the turbocharger overhaul manual, HET P/N 400600-0000 Rev. A or latest revision.

- (2) If it has been determined that an affected back plate is installed per 3.A(2) or 3.A(3):
  - (a) The turbocharger must be removed from the engine.
  - (b) For each step below, utilize the Turbocharger Overhaul & Maintenance manual HET P/N 400600-0000 Rev. A or later. Refer to the appropriate section of Chapter 2.
    - (i) Using the overhaul manual, follow the steps found in the applicable section and remove turbocharger components to separate the back plate assembly.
    - (ii) Remove the affected P/N 406795-0058 back plate assembly and return to HET.
    - (iii) Replace the affected back plate assembly with a P/N 406795-0058 back plate assembly not affected by this Alert Service Bulletin.
    - (iv) Inspect and reassemble the turbocharger.
    - (v) Perform the tests shown in the turbocharger overhaul manual to complete the repair.
- (3) Utilizing the applicable aircraft and/or engine manufacturer's maintenance manuals or service instructions, re-install the turbocharger assembly and proceed to 3.C "Return to Service".

### C. Return to Service

- (1) After the turbocharger has been properly installed, the aircraft will be ready for "return to service".
- (2) Perform the recommended turbocharger operational tests in accordance with Hartzell Engine Technologies Service Bulletin 23 and the aircraft AFM or POH.
  - (a) The operational tests consist of turbocharger pre-lubrication, ground running and operational flight tests.
  - (b) Make sure air, exhaust, or oil leaks are not present. Remedy any anomaly found and secure the engine turbocharger installation.
- (3) Using the applicable aircraft and engine manufacturer's maintenance manuals of the latest revision, install any portion of the aircraft that was removed to gain access.

- D. Upon successful completion of this Alert Service Bulletin, make an appropriate log book entry noting compliance with this Alert Service Bulletin as terminating action.

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## **Turbocharger - Back Plate P/N 406795-0058 Replacement**

4. Contact Information:

- A. All communications regarding this Alert Service Bulletin must be placed through Hartzell Engine Technologies Product Support at +1.334.386-5441 or via Fax +1.334.386-5410.
- B. Written communications must be placed through Hartzell Engine Technologies Product Support, 2900 Selma Highway, Montgomery, AL 36108, USA.
- C. If E-mail communication is desired, go to our website:<http://www.HartzellEngineTech.com> and select "contact" and follow the instructions - or - [techsupport@hartzellenginetech.com](mailto:techsupport@hartzellenginetech.com).

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Turbocharger - Back Plate P/N 406795-0058 Replacement

Table 1 - Turbocharger Part Numbers Affected \*

Model	HET P/N	OEM P/N
TH08A60	409170-0001	LW-12463
	409170-9001	
TH08A67	407810-0001	635630
	407810-9001	
TH08A67	407810-0003	RAM 2060-1
	407810-9003	
TH08A68	409680-0011	640327-11
	409680-9011	
TH08A69	465680-0001	LW-13987
	465680-9001	
TH08A69	465680-0004	C295002-0202
	465680-9004	
TH08A69	465680-0005	LW-18470
	465680-9005	
TH08A69	465680-0007	658413 ^
TH08A70	465930-0002	641672-2
	465930-9002	
TH08A70	465930-0003	641672-3
	465930-9003	

\* For aid in identifying engine or aircraft model, see Table 3 Reference Guide.

^ Prototype unit part numbers only.

NOTE 1: Replacement back plate assemblies may have been installed in any P/N turbocharger listed in Table 1 during field overhaul or repair.

NOTE 2: Turbochargers with HET part numbers ending with -0xxx are New and ending with -9xxx are Factory Rebuilt.

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# Alert Service Bulletin

## Alert Service Bulletin No. 057

### Turbocharger - Back Plate P/N 406795-0058 Replacement

**CAUTION:** SERIAL NUMBERS IN TABLE 2 ARE NUMEROUS AND CARE MUST BE TAKEN TO IDENTIFY THE AFFECTED PART NUMBER AND SERIAL NUMBER. IF AN ERROR IS MADE IN IDENTIFICATION OF AN AFFECTED TURBOCHARGER, EQUIPMENT DAMAGE, ENGINE POWER LOSS AND EVEN DEATH MAY RESULT SHOULD TURBOCHARGER PERFORMANCE DEGRADE.

**Table 2 - Turbocharger Serial Numbers Affected**

H-PAR00122	H-PFL00150	H-PFL00151	H-PFL00205	H-PFL00206	H-PFL00207	H-PFL00208	H-PFL00209
H-PFL00210	H-PFL00211	H-PFL00212	H-PFL00213	H-PFL00214	H-PFL00215	H-PFL00217	H-PFL00218
H-PFL00399	H-PFL00434	H-PFL00435	H-PFL00436	H-PFL00437	H-PFL00438	H-PFL00488	H-PFL00489
H-PFL00495	H-PFL00496	H-PFL00497	H-PFR00439	H-PFR00440	H-PFR00441	H-PFR00442	H-PFR00443
H-PFR00444	H-PFR00445	H-PFR00446	H-PFR00447	H-PFR00448	H-PFR00449	H-PFR00450	H-PFR00451
H-PFR00452	H-PFR00453	H-PFR00454	H-PFR00455	H-PFR00456	H-PFR00457	H-PFR00458	H-PFR00459
H-PFR00460	H-PFR00461	H-PFR00462	H-PFR00463	H-PFR00464	H-PFR00465	H-PFR00466	H-PFR00467
H-PFR00468	H-PFR00490	H-PFR00491	H-PFR00492	H-PFR00498	H-PFR00499	H-PFR00500	H-PFR00504
H-PFR00505	H-PFR00506	H-PFR00507	H-PFR00508	H-PFR00509	H-PFR00510	H-PFR00511	H-PFR00512
H-PFR00513	H-PFR00514	H-PFR00515	H-PFR00516	H-PFR00517	H-PFR00518	H-PFR00519	H-PFR00520
H-PFR00521	H-PGL00091	H-PGL00092	H-PGL00093	H-PGL00094	H-PGL00095	H-PGL00096	H-PGL00097
H-PGL00098	H-PGL00099	H-PGL00100	H-PGL00129	H-PGL00144	H-PGL00145	H-PGL00146	H-PGL00147
H-PGL00164	H-PGL00165	H-PGL00166	H-PGL00167	H-PGL00168	H-PGL00169	H-PGL00170	H-PGL00204
H-PGL00205	H-PGL00206	H-PGR00101	H-PGR00102	H-PGR00103	H-PGR00113	H-PGR00114	H-PGR00115
H-PGR00116	H-PGR00117	H-PGR00118	H-PGR00119	H-PGR00120	H-PGR00121	H-PGR00122	H-PGR00123
H-PGR00124	H-PGR00125	H-PGR00126	H-PGR00127	H-PHL00013	H-PHL00014	H-PHL00015	H-PHL00016
H-PHL00017	H-PHL00018	H-PHL00073	H-PHL00074	H-PHL00075	H-PHL00076	H-PHL00077	H-PHL00078
H-PHL00202	H-PHL00203	H-PHL00274	H-PHL00308	H-PHL00309	H-PHL00310	H-PHL00311	H-PHL00312
H-PHL00313	H-PHL00314	H-PHL00315	H-PHL00316	H-PHL00317	H-PHR00053	H-PHR00054	H-PHR00055
H-PHR00056	H-PHR00057	H-PHR00204	H-PHR00205	H-PHR00318	H-PIL00079	H-PIL00080	H-PIL00081
H-PIL00082	H-PIL00083	H-PIL00084	H-PIL00085	H-PIL00086	H-PIR00143	H-PIR00144	H-PIR00145
H-PIR00146	H-PIR00163	H-PIR00164	H-PIR00201	H-PIR00211	H-PJL00016	H-PJL00017	H-PJL00018
H-PJL00045	H-PJL00046	H-PJL00047	H-PJL00048	H-PJL00049	H-PJL00050	H-PJL00051	H-PJL00087
H-PJL00088	H-PJL00089	H-PJL00090	H-PJL00091	H-PJL00092	H-PJL00093	H-PJL00094	H-PJL00095
H-PJL00123	H-PJL00124	H-PJL00125	H-PJR00041	H-PJR00042	H-PJR00043	H-PJR00044	H-PJR00096
H-PJR00097	H-PJR00098	H-PJR00099	H-PJR00100	H-PJR00101	H-PJR00102	H-PJR00103	H-PJR00104
H-PJR00105	H-PJR00106	H-PJR00107	H-PJR00108	H-PJR00109	H-PJR00110	H-PJR00111	H-PJR00112
H-PJR00113	H-PJR00114	H-PJR00115	H-PJR00116	H-PJR00117	H-PJR00119	H-PJR00120	H-PJR00126
H-PJR00199	H-PJR00200	H-PKL00037	H-PKL00038	H-PKL00039	H-PKL00040	H-PKL00041	H-PKL00042
H-PKL00043	H-PKL00044	H-PKL00045	H-PKL00046	H-PKL00102	H-PKL00103	H-PKL00105	H-PKL00106
H-PKL00107	H-PKL00108	H-PKL00109	H-PKL00110	H-PKR00047	H-PKR00048	H-PKR00049	H-PKR00050
H-PKR00051	H-PKR00052	H-PKR00053	H-PKR00054	H-PKR00055	H-PKR00113	H-PKR00114	H-PKR00115
H-PKR00116	H-PKR00117	H-PLL00011	H-PLR00012	H-PLR00013	H-PLR00014	H-PLR00015	H-PLR00016

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**Turbocharger - Back Plate P/N 406795-0058 Replacement**

**Table 2 - Turbocharger Serial Numbers Affected (cont'd)**

H-QAL00074	H-QAL00075	H-QAL00093	H-QAL00094	H-QAL00095	H-QAL00096	H-QAL00106	H-QAL00107
H-QAL00204	H-QAL00209	H-QAL00210	H-QAL00211	H-QAL00213	H-QAL00214	H-QAL00215	H-QAR00070
H-QAR00071	H-QAR00072	H-QAR00073	H-QAR00081	H-QAR00082	H-QAR00083	H-QAR00084	H-QAR00085
H-QAR00086	H-QAR00087	H-QAR00088	H-QAR00089	H-QAR00090	H-QAR00091	H-QAR00092	H-QAR00097
H-QAR00098	H-QAR00099	H-QAR00100	H-QAR00101	H-QAR00102	H-QAR00103	H-QAR00104	H-QAR00105
H-QAR00167	H-QAR00268	H-QAR00269	H-QAR00270	H-QAR00271	H-QAR00272	H-QAR00273	H-QAR00274
H-QAR00275	H-QBL00067	H-QBL00068	H-QBL00069	H-QBL00079	H-QBL00080	H-QBL00081	H-QBL00082
H-QBL00083	H-QBL00084	H-QBL00085	H-QBL00086	H-QBL00087	H-QBL00088	H-QBL00096	H-QBL00210
H-QBR00090	H-QBR00091	H-QBR00092	H-QBR00093	H-QCL00072	H-QCL00073	H-QCL00074	H-QCR00042
H-QCR00043	H-QCR00044	H-QCR00045	H-QCR00046	H-QCR00047	H-QCR00048	H-QCR00049	H-QCR00050
H-QCR00051	H-QDL00007	H-QDL00008	H-QDL00009	H-QDL00051	H-QDL00077	H-QDL00081	H-QDL00082
H-QDL00129	H-QDL00130	H-QDL00131	H-QDL00132	H-QDL00133	H-QDL00134	H-QDL00142	H-QDL00143
H-QDL00144	H-QDL00145	H-QDL00146	H-QDL00147	H-QDL00148	H-QDL00149	H-QDL00156	H-QDL00157
H-QEL00009	H-QEL00042	H-QEL00043	H-QEL00134	H-QEL00135	H-QEL00136	H-QEL00137	H-QEL00138
H-QEL00139	H-QEL00140	H-QEL00141	H-QEL00142	H-QEL00143	H-QEL00216	H-QEL00234	H-QFL00102
H-QFL00103	H-QFL00104	H-QFR00002	H-QFR00003	H-QGR00171	H-QGR00172	H-QGR00173	H-QHL00034
H-QHL00035	H-QHL00037	H-QHL00067	H-QIL00084	H-QIL00085	H-QIL00088	H-QIL00089	H-QIL00090
H-QIL00091	H-QIL00188	H-QIL00189	H-QIL00190	H-QIR00156	H-QIR00157	H-QIR00158	H-QIR00159
H-QIR00160	H-QIR00161	H-QJL00112	H-QJL00113	H-QJL00114	H-QJL00115	H-QJL00116	H-QJL00117
H-QJL00118	H-QJL00119	H-QJL00120	H-QJL00121	H-QJL00122	H-QKL00032	H-QKR00022	H-QKR00090
H-QKR00091	H-QKR00092	H-QKR00093	H-QKR00094				

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## Turbocharger - Back Plate P/N 406795-0058 Replacement

Table 3 - Aircraft / Engine Reference Guide\*

Turbo Model	Part Number	Engine Model	OE Turbo P/N	Aircraft Models
TH08A60	409170-(0, 9)001	TIO-540-J2B L/TIO-540-J2BD L/TIO-540-J2B TIO-540-N2BD	LW-12463 (LYC)	Helio Courier H-700 PA31-350 Navajo Chieftain PA31-350 T1020 Riley 310 Conversion
TH08A67	407810-(0, 9)001	TSIO-520-K TSIO-520-N & -NB TSIO-520-J TSIO-520-N & -NB TSIO-520-N & -NB	635630 (CMI)	Cessna 340 Cessna 340A Cessna 414 ('70 to '75) Cessna 414 ('76 & '77) Cessna 414A
TH08A67	407810-(0, 9)003	TSIO-520-N & -NB	2060-1 (RAM)	Cessna 340A (RAM STC)
TH08A68	409680--(0, 9)011	TSIO-520-L TSIO-520-WB	640327-1 (CMI)	Beech 58P / 58TC ('76 to '78) Beech 58P / 58TC ('79 & up)
TH08A69	465680-(0, 9)001 465680-(0, 9)004 465680-(0, 9)005	TIO-540-R2AD TSIO-520-P TSIO-520-AF L/TIO-540-V2AD TIO-540-W2A	LW-13897 (LYC) G295001-0202 LW-18470 (LYC)	Twin Commander 700 Cessna P210N ('78 to '81) Cessna P210N ('82 & up) Piper PA31P-350 Mojave Aero Mercantil Galavan 358
TH08A70	465930-(0, 9)002 465930-(0, 9)003	GTSIO-520-M GTSIO-520-L GTSIO-520-N	641672-2 (CMI) 641672-3 (CMI)	Cessna 404 ('70 & up) Cessna 421C ('76 & up) Cessna 421C ('76 & up)

\* Use for reference purposes only. Aircraft/engines listed are inclusive of but not limited to these models.

Note: -(0, 9) represent New -0xxx and Rebuilt -9xxx. Either may be used in application.

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# Alert Service Bulletin Appendix

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## Turbocharger - Back Plate P/N 406795-0058 Replacement

### 1. ELIGIBILITY:

- A. All Hartzell Engine Technologies LLC (HET) P/N 406795-0058 back plate assemblies received from HET between June 1, 2012 and September 30, 2013.
- B. All new and rebuilt turbocharger P/N 's as shown in ASB 057 Table 1 with S/N's shown in Table 2.
- C. Any turbocharger P/N shown ASB 057 Table 1 which has been overhauled or repaired using an affected P/N 406795-0058 back plate assembly received from HET between June 1, 2012 and September 30, 2013.

### 2. COMMERCIAL ASSISTANCE PROGRAM:

The following will be provided with the submission of a completed ASB 057 Claim Form, copies of invoices showing breakdown of labor charges and log book entries. **Any commercial assistance or other consideration shall expire twelve (12) calendar months from the original published date of ASB 057.**

- A. If an affected back plate assembly is returned to HET, it will be replaced under HET's limited warranty on parts or credited at HET's option.
- B. If an affected unused turbocharger is returned to HET, it will be replaced under HET's limited warranty on components.
- C. Labor for removal & installation for affected turbochargers will be paid at a shop rate of \$75 an hour up to the amount specified below:
  - (1) Up to five (5.0) hours labor for CMI TSIO-520 series engines.
  - (2) Up to five & one half (5.5) hours labor for CMI GTSIO-520 series engines.
  - (3) Up to four & one half (4.5) hours labor for Lycoming TIO-540 series engines.
- D. Affected turbochargers in service may be returned to HET for replacement of an affected back plate at no charge. The back plate may also be replaced in the field, however, HET will provide reimbursement only with prior approval of certificated turbocharger repair stations acceptable to HET. Approved repair stations will receive up to three (3) hours @ \$75 per hour (up to \$225 maximum) for replacement of an affected back plate.

### 3. COMMERCIAL ASSISTANCE ADMINISTRATION:

- A. Complete the Alert Service Bulletin ASB 057 Claim Form attached to this appendix.
  - (1) Mail, e-mail, or fax the ASB 057 Claim Form to the attention of Product Support as indicated on the Alert Service Bulletin Claim Form.

**NOTE:** The completed Alert Service Bulletin ASB 057 Claim Form must be received before an order for a replacement back plate assembly will be allowed.

- B. Upon receipt of the Alert Service Bulletin Claim Form, Hartzell Engine Technologies LLC will ship a replacement P/N 406795-0058 back plate to the turbocharger service provider indicated.
- C. For labor charges:
  - (1) Aircraft service facility to submit an invoice up to the amount specified in section 2.D and copies of logbook entries for reimbursement.
  - (2) Approved turbocharger service facility to submit an invoice up to the amount specified in section 2.E and return of the affected back plate.

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## Turbocharger - Back Plate P/N 406795-0058 Replacement

### 4. WARRANTY STATEMENT:

- (a) The sole warranty for the actions of ASB 057 are contained in the HET Limited Warranty Policy issued with the purchase of each new/rebuilt turbocharger or piece part (see terms and conditions therein).
- (b) Commercial assistance may apply as stated in this Appendix.
- (c) Issuance of ASB 057 in no way constitutes an implied or expressed warranty of any kind.
- (d) This publication does not imply or state any responsibility for the workmanship of any person or entity performing work or maintenance on the engine or aircraft turbocharging system.

### 5. CONTACT INFORMATION:

All telephone communications regarding this Alert Service Bulletin, must be placed either through Hartzell Engine Technologies Product Support at +1.334.386.5441, or via Fax +1.334.386.5450. Written communications must be placed through Hartzell Engine Technologies Product Support, 2900 Selma Highway, Montgomery, AL 36108, USA.

If e-mail communication is desired, go to our website: <http://www.HartzellEngineTech.com> and select "contact" and follow the instructions - or - use [techsupport@hartzellenginetech.com](mailto:techsupport@hartzellenginetech.com).

### 6. SHIPPING INFORMATION:

If an unused back plate or turbocharger is being returned, the affected parts must be securely packaged so no damage will occur. A copy of the properly completed ASB 057 Claim Form for each affected part must be placed inside the shipping container. All parts must be received undamaged and assembled. Address package to Hartzell Engine Technologies LLC, Product Support Department, 2900 Selma Highway, Montgomery, AL 36108, USA. Also mark "PRODUCT SUPPORT DEPT / ASB 057 Rev. New" clearly on the outside of the shipping container.

**NOTE:** *If sending the turbocharger to HET, do not send with fittings, oil reservoir or other engine/airframe parts as they may not be returned.*

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# Alert Service Bulletin Appendix

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## Turbocharger - Back Plate P/N 406795-0058 Replacement

### ASB 057 CLAIM FORM

#### Owner information

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Tel: \_\_\_\_\_ Fax: \_\_\_\_\_  
Company Name: \_\_\_\_\_ E-mail: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Postal Code: \_\_\_\_\_  
Country: \_\_\_\_\_

#### Aircraft Service Facility information

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Tel: \_\_\_\_\_ Fax: \_\_\_\_\_  
Company Name: \_\_\_\_\_ E-mail: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Postal Code: \_\_\_\_\_  
Country: \_\_\_\_\_  
Aircraft Mfg: \_\_\_\_\_ Model: \_\_\_\_\_ Time in Service: \_\_\_\_\_ S/N: \_\_\_\_\_  
Engine: \_\_\_\_\_ Model: \_\_\_\_\_ Time in Service: \_\_\_\_\_ S/N: \_\_\_\_\_

#### Turbocharger Service Facility information

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Tel: \_\_\_\_\_ Fax: \_\_\_\_\_  
Company Name: \_\_\_\_\_ E-mail: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Postal Code: \_\_\_\_\_  
Country: \_\_\_\_\_

#### Product or Component Information

Nomenclature: Turbocharger or Back Plate (part) Part Number: \_\_\_\_\_  
(circle one) (Write in)  
Serial Number: \_\_\_\_\_ (Turbocharger) Date Code: \_\_\_\_\_ (back plate ass'y)  
Part Time in Service: \_\_\_\_\_ (Turbocharger)

Send this ASB 057 Claim Form to:

Hartzell Engine Technologies Product Support  
Fax: +1.334.386.5450  
E-mail: techsupport@hartzellenginetech.com

**Hartzell Use Only - do not write below this line.**

Warranty No: \_\_\_\_\_ Authorized by: \_\_\_\_\_

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