

SERVICE INFORMATION LETTER NO. SI62-028

- NOTE: Service information letters (SILs) are used only:
 - 1. To distribute information from Diamond Aircraft Industries Inc. to our customers.
 - 2. To distribute applicable information/documents from our suppliers to our customers with additional information.
- NOTE: Typically there is no revision service for SILs. Each new information or change will be sent along with a new SIL.

1. TECHNICAL DETAILS

1.1 Aircraft Affected

DA 62 aircraft with engines having the serial numbers indicated in Austro Engine MSB-E4-030/3.

1.2 Subject

EASA AD 2021-0055-E and Austro Engine Mandatory Service Bulletin MSB-E4-030/3 - Oil Pump Replacement with updated serial number effectivity.

ATA-Code: 72-00

1.3 Reason

Austro Engine GmbH has issued Mandatory Service Bulletin No. MSB-E4-030/3 mandating the replacement of the oil pump. MSB-E4-030/3 has been made mandatory with EASA Emergency Airworthiness Directive 2021-0055-E. Austro Engine has updated the serial number effectivity for MSB-E4-030/3, both adding and removing to the list of affected engines.

WARNING: IT IS IMPERATIVE THAT OPERATORS COMPLY WITH MSB-E4-030/3. FAILURE TO COMPLY MAY LEAD TO ENGINE FAILURE.

1.4 Information

For detailed technical information, refer to EASA AD 2021-0055-E and Austro Engine MSB-E4-030/3, which are applicable without any further additions or restrictions.

EASA AD 2021-0055-E and Austro Engine MSB-E4-030/3 are attached to this SIL. In case of doubt, contact Austro Engine GmbH.

Diamond Aircraft Industries SERVICE INFORMATION LETTER



2. OTHER DETAILS

To obtain satisfactory results, procedures specified in this service information letter must be accomplished in accordance with accepted methods and current government regulations. Diamond Aircraft Industries Inc. cannot be responsible for the quality of work performed in accomplishing the requirements of this service information letter. Diamond Aircraft reserves the right to void continued warranty coverage in the area affected by this service information letter if it is not incorporated. If you no longer own the aircraft to which this service information letter applies, please forward it to the current owner and send the name of the current owner to Diamond Aircraft Industries Inc. at the address below.

Diamond Aircraft Industries Inc. 1560 Crumlin Sideroad, London, Ontario, Canada N5V 1S2

Customer Support Phone: (519) 457-4041, Fax: (519) 457-4045 Email: support-canada@diamondaircraft.com

Technical Publications Email: Techpubs@diamondaircraft.com



Emergency Airworthiness DirectiveAD No.:2021-0055-EIssued:25 February 2021

Note: This Emergency Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:

AUSTRO ENGINE GmbH

Type/Model designation(s): E4 and E4P engines

Effective Date: 01 March 2021

TCDS Number(s): EASA.E.200

Foreign AD: Not applicable

Supersedure: None

ATA 72– Engine – Oil Pump – Replacement

Manufacturer(s):

Austro Engine GmbH

Applicability:

Model E4 and E4P engines, all serial numbers (s/n) as listed in Austro Engine Service Bulletin (SB) MSB-E4-030.

These engines are known to be installed on, but not limited to, Diamond Aircraft Industries DA 40 NG, DA 42 NG, DA 42 M-NG and DA 62 aeroplanes.

Definitions:

For the purpose of this AD, the following definitions apply:

The SB: Austro Engine SB MSB-E4-030 Revision 1.

Affected part: Oil pumps having Part Number (P/N) E4A-50-000-BHY and having a s/n as listed in the SB.

Serviceable part: Any oil pump, eligible for installation, which is not an affected part.



Groups: Group 1 are Model E4 engines in configuration "-A", installed on single engine aeroplanes. Group 2 are Model E4 engines in configuration "-B" or "-C" and Model E4P engines, installed on twin-engine aeroplanes.

Reason:

Occurrences were reported of oil pump blockage on E4-A and E4-B engines. Subsequent investigation determined that the blockage was caused by oil contamination with casting sand from the production process of oil pump P/N E4A-50-000-BHY. A blocked oil pump causes failure of the engine lubrication system. Root cause investigation is still on-going.

This condition, if not corrected, could lead to engine in-flight shut-down with consequent forced landing, possibly resulting in damage to the aeroplane and injury to occupants.

To address this potential unsafe condition, Austro Engine published the SB (later revised to add affected part s/n) to provide instructions to replace the affected oil pumps.

For the reason described above, this AD requires replacement of the affected parts, and replacement of the oil and filter.

Required Action(s) and Compliance Time(s):

Required as indicated, unless accomplished previously:

Replacement:

(1) Within the compliance time as specified in Table 1 of this AD, as applicable, replace each affected part with a serviceable part, and replace the oil and the oil filter in accordance with the instructions of the SB.

Group / Flight Hours (FH)	Compliance Time
Group 1 and Group 2 / 10 FH or less	Before next flight after the effective date of this AD
Group 1 / more than 10 FH, but less than 50 FH	Within 3 months after the effective date of this AD, or before accumulating 70 FH, or during the next scheduled maintenance, whichever occurs first
Group 1 / 50 FH or more	Within 3 months or 20 FH, or during the next scheduled maintenance, whichever occurs first after the effective date of this AD
Group 2 / more than 10 FH	Within 3 months or 100 FH, or during the next scheduled maintenance, whichever occurs first after the effective date of this AD

Table 1 – Replacement of Oil Pu	Imp, Oil and Filter (see Note 1 of this AD)
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Note 1: Unless indicated otherwise, the FH specified in Table 1 of this AD are those accumulated by the engine since new (first installation on an aeroplane).



Ferry Flight:

(2) For an aeroplane that has a Group 1 or Group 2 engine installed that has accumulated 10 FH or less since new, a single ferry flight is allowed to position that aeroplane to a location where the actions required by this AD can be accomplished on the affected engine(s).

Credit:

(3) Replacement of an affected part on an engine, accomplished before the effective date of this AD in accordance with the instructions of the SB at original issue, is acceptable to comply with the requirements of paragraph (1) of this AD for that engine.

Ref. Publications:

Austro Engine SB MSB-E4-030 original issue dated 18 February 2021, or Revision 1 dated 23 February 2021.

The use of later approved revisions of the above-mentioned document is acceptable for compliance with the requirements of this AD.

Remarks:

- 1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
- 2. The results of the safety assessment have indicated the need for immediate publication and notification, without the full consultation process.
- 3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: <u>ADs@easa.europa.eu</u>.
- 4. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, can be reported to the <u>EU aviation safety</u> reporting system. This may include reporting on the same or similar components, other than those covered by the design to which this AD applies, if the same unsafe condition can exist or may develop on an aircraft with those components installed. Such components may be installed under an FAA Parts Manufacturer Approval (PMA), Supplemental Type Certificate (STC) or other modification.
- 5. For any question concerning the technical content of the requirements in this AD, please contact: Austro Engine GmbH, Rudolf-Diesel-Str. 11, 2700 Wiener Neustadt, Austria, Telephone +43-2622-23000-2525, E-mail <u>service@austroengine.at</u>.





No. MSB-E4-030/3

Austro Engine GmbH Rudolf-Diesel-Strasse 11 A-2700 Wiener Neustadt Tel: +43 2622 23000 FAX: +43 2622 23000-2711

MANDATORY SERVICE BULLETIN No. MSB-E4-030/3 Supersedes MSB-E4-030/2

1. **BASIC INFORMATION**

1.1. SUBJECT

Oil pump replacement

1.2. ENGINES AFFECTED

Engine affected:

E4 Series

Serial numbers affected:

E4-A-00020E4-A-00265E4-A-05034E4-A-05074E4-A-06008E4-A-06036E4-A-00026E4-A-00266E4-A-05046E4-A-05075E4-A-06009E4-A-06037E4-A-00028E4-A-00268E4-A-05046E4-A-05076E4-A-06010E4-A-06038E4-A-00037E4-A-00269E4-A-05047E4-A-05077E4-A-06011E4-A-06039E4-A-00038E4-A-00274E4-A-05048E4-A-05078E4-A-06012E4-A-06040E4-A-00042E4-A-00276E4-A-05049E4-A-05082E4-A-06013E4-A-06043E4-A-00076E4-A-00278E4-A-05050E4-A-05083E4-A-06014E4-A-06044E4-A-00076E4-A-00280E4-A-05051E4-A-05084E4-A-06015E4-A-06044E4-A-00079E4-A-00280E4-A-05051E4-A-05086E4-A-06016E4-A-00247E4-A-00100E4-A-00280E4-A-05055E4-A-05086E4-A-06016E4-A-00247E4-A-00107E4-A-00336E4-A-05057E4-A-05088E4-A-06018E4-A-00487E4-A-00107E4-A-00336E4-A-05057E4-A-05089E4-A-06020E4-A-00487E4-A-00111E4-A-00337E4-A-05059E4-A-05090E4-A-06021E4-A-06023E4-A-00133E4-A-00434E4-A-05061E4-A-05093E4-A-06023E4-A-00133E4-A-00442E4-A-05063E4-A-05093E4-A-06023E4-A-00163E4-A-00446E4-A-05063E4-A-05096E4-A-06025E4-A-00163E4-A-00446E4-A-05063E4-A-05096E4-A-06025E4-A-00163 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
E4-A-00026E4-A-00266E4-A-05046E4-A-05075E4-A-06009E4-A-06037E4-A-00028E4-A-00268E4-A-05046E4-A-05076E4-A-06010E4-A-06038E4-A-00037E4-A-00269E4-A-05047E4-A-05077E4-A-06011E4-A-06039E4-A-00038E4-A-00274E4-A-05048E4-A-05078E4-A-06012E4-A-06040E4-A-00042E4-A-00276E4-A-05049E4-A-05082E4-A-06013E4-A-06043E4-A-00076E4-A-00280E4-A-05050E4-A-05083E4-A-06014E4-A-06044E4-A-00100E4-A-00280E4-A-05055E4-A-05085E4-A-06017E4-A-00487E4-A-00106E4-A-00323E4-A-05055E4-A-05086E4-A-06017E4-A-00487E4-A-00111E4-A-00336E4-A-05057E4-A-05088E4-A-06019E4-A-00487E4-A-00131E4-A-00377E4-A-05059E4-A-05090E4-A-06020E4-A-06021E4-A-00133E4-A-00442E4-A-05059E4-A-05092E4-A-06023E4-A-06023E4-A-00133E4-A-00442E4-A-05061E4-A-05093E4-A-06024E4-A-00165E4-A-00474E4-A-05063E4-A-05095E4-A-06025E4-A-00168E4-A-00474E4-A-05065E4-A-05095E4-A-06025E4-A-00168E4-A-00484E4-A-05065E4-A-05095E4-A-06025E4-A-00168E4-A-00484E4-A-05065E4-A-05095E4-A-06026E4-A-00169E4-A-00509E4-A-05095E4-A-06025E4-A-00169E4-A-05066E4-A-05095E4-A-06028 <th>E4-A-00011</th> <th>E4-A-00263</th> <th>E4 A 05030</th> <th>E4-A-05073</th> <th>E4-A-06007</th> <th>E4-A-06035</th>	E4-A-00011	E4-A-00263	E4 A 05030	E4-A-05073	E4-A-06007	E4-A-06035
E4-A-00028E4-A-00268E4-A-05046E4-A-05076E4-A-06010E4-A-06039E4-A-00037E4-A-00269E4-A-05047E4-A-05077E4-A-06011E4-A-06039E4-A-00038E4-A-00274E4-A-05048E4-A-05077E4-A-06012E4-A-06040E4-A-00042E4-A-00276E4-A-05049E4-A-05082E4-A-06013E4-A-06043E4-A-00076E4-A-00278E4-A-05050E4-A-05083E4-A-06014E4-A-06044E4-A-00076E4-A-00280E4-A-05051E4-A-05085E4-A-06015E4-A-06044E4-A-00100E4-A-00286E4-A-05054E4-A-05085E4-A-06017E4-A-00487E4-A-00107E4-A-00336E4-A-05055E4-A-05088E4-A-06019E4-A-00487E4-A-00111E4-A-00336E4-A-05057E4-A-05089E4-A-06019E4-A-00487E4-A-00111E4-A-00397E4-A-05059E4-A-05091E4-A-06020E4-A-00221E4-A-00133E4-A-0429E4-A-05059E4-A-05091E4-A-06021E4-A-06023E4-A-00133E4-A-0442E4-A-05061E4-A-05092E4-A-06023E4-A-00133E4-A-0442E4-A-05063E4-A-05093E4-A-06024E4-A-00163E4-A-0444E4-A-05063E4-A-05095E4-A-06025E4-A-00168E4-A-00444E4-A-05064E4-A-05095E4-A-06026E4-A-00168E4-A-00484E4-A-05067E4-A-05097E4-A-06028E4-A-00168E4-A-05066E4-A-05097E4-A-06028E4-A-00169E4-A-05067E4-A-06001E4-A-06029 <th>E4-A-00020</th> <th>E4-A-00265</th> <th>E4 A 05034</th> <th>E4 A 05074</th> <th>E4-A-06008</th> <th>E4-A-06036</th>	E4-A-00020	E4-A-00265	E4 A 05034	E4 A 05074	E4-A-06008	E4-A-06036
E4-A-00037E4-A-00269E4-A-05047E4-A-05077E4-A-06011E4-A-06039E4-A-00038E4-A-00274E4-A-05048E4-A-05078E4-A-06012E4-A-06040E4-A-00042E4-A-00276E4-A-05049E4-A-05082E4-A-06013E4-A-06043E4-A-00076E4-A-00278E4-A-05050E4-A-05083E4-A-06014E4-A-06044E4-A-00076E4-A-00280E4-A-05051E4-A-05083E4-A-06014E4-A-06044E4-A-00100E4-A-00282E4-A-05054E4-A-05085E4-A-06016E4-A-00227E4-A-00106E4-A-00323E4-A-05055E4-A-05086E4-A-06017E4-A-00487E4-A-00111E4-A-00336E4-A-05057E4-A-05088E4-A-06019E4-A-00487E4-A-00111E4-A-00397E4-A-05059E4-A-05090E4-A-06020E4-A-00487E4-A-00111E4-A-00397E4-A-05059E4-A-05091E4-A-06021E4-A-06021E4-A-00133E4-A-00434E4-A-05060E4-A-05091E4-A-06023E4-A-06023E4-A-00133E4-A-0442E4-A-05062E4-A-05093E4-A-06023E4-A-00163E4-A-04442E4-A-05063E4-A-05094E4-A-06025E4-A-00165E4-A-00484E4-A-05065E4-A-05095E4-A-06026E4-A-00166E4-A-00498E4-A-05067E4-A-06001E4-A-06027E4-A-00169E4-A-05099E4-A-06002E4-A-06028E4-A-00207E4-A-05016E4-A-05067E4-A-06002E4-A-00219E4-A-05016E4-A-05069E4-A-06003E4-A-0	E4-A-00026	E4-A-00266	E4 A 05040	E4 A 05075	E4-A-06009	E4-A-06037
E4-A-00038E4-A-00274E4-A-05048E4-A-05078E4-A-06012E4-A-06040E4-A-00042E4-A-00276E4-A-05049E4-A-05082E4-A-06013E4-A-06043E4-A-00046E4-A-00278E4-A-05050E4-A-05083E4-A-06014E4-A-06044E4-A-00076E4-A-00280E4-A-05051E4-A-05083E4-A-06015E4-A-06044E4-A-00079E4-A-00280E4-A-05051E4-A-05084E4-A-06015E4-A-06044E4-A-00100E4-A-00286E4-A-05055E4-A-05086E4-A-06017E4-A-00227E4-A-00106E4-A-00233E4-A-05055E4-A-05086E4-A-06018E4-A-00487E4-A-00177E4-A-00336E4-A-05057E4-A-05088E4-A-06019E4-A-00487E4-A-00111E4-A-00341E4-A-05059E4-A-05089E4-A-06020E4-A-06020E4-A-00116E4-A-00397E4-A-05059E4-A-05090E4-A-06021E4-A-06022E4-A-00133E4-A-00442E4-A-05061E4-A-05091E4-A-06023E4-A-00133E4-A-00442E4-A-05062E4-A-05093E4-A-06024E4-A-00163E4-A-00442E4-A-05063E4-A-05095E4-A-06025E4-A-00165E4-A-00484E4-A-05065E4-A-05096E4-A-06026E4-A-00166E4-A-00498E4-A-05066E4-A-05097E4-A-06028E4-A-00169E4-A-05099E4-A-05067E4-A-06001E4-A-06029E4-A-00277E4-A-05066E4-A-06002E4-A-06030E4-A-00279E4-A-05067E4-A-06003E4-A-06031E4-A-	E4-A-00028	E4-A-00268	E4-A-05046	E4-A-05076	E4-A-06010	E4-A-06038
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E4-A-00232 E4 A 05028 E4-A-05071 E4-A-06005 E4-A-06033	E4-A-00219	E4-A-05017	E4-A-05069	E4-A-06003	E4-A-06031	
	E4-A-00221	E4 A 05019	E4 A 05070	E4-A-06004	E4-A-06032	
E4-A-00259 E4 A 05029 E4 A 05072 E4-A-06006 E4-A-06034	E4-A-00232	E4 A 05028	E4-A-05071	E4-A-06005	E4-A-06033	
	E4-A-00259	E4 A 05029	E4 A 05072	E4-A-06006	E4-A-06034	

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	E4-B-			00131		00173	E4-B-		E4-B-		E4-B-(
	E4-B-	00031		00136	E4-B-00208		E4-B-05001 E		E4-B-05003		E4-B-(05010	
	E4-B-	00039	E4-B-	00140	E4-B-00209		E4-B-00297 E4-B		E4-B-	05004 E4-B-		05011	
	E4-B-	00060	E4-B-	00145	E4-B-00216		E4-B-	00379	E4-B-	05005	E4-B-(05012	
	E4-B-	00099	E4-B-	00147	E4-B-	00231	E4-B-	00417	E4-B-				
	E4-B-	00109	E4-B-	00163	E4-B-	00273	E4-B-		E4-B-	05007			
	E4-B-	00110	E4-B-	00164	E4-B-	00282	E4 B (00487	E4-B-	05008			
E4-C-(00001	E4-C-(00480	E4-C-()5065	E4-C-	05086	E4-C- ()5107	E4-C-(06004	E4-C-	<mark>)0200</mark>
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E4-C-(00060	E4 C ()5037	E4-C-0)5067	E4-C-	05088	E4 C ()5109	E4-C-(06006	E4-C-	<mark>)0227</mark>
E4-C-(00061	E4 C ()5038	E4-C-0	05068	E4 C (05089	E4 C ()5110	E4-C-(06007	E4-C-	<mark>)0230</mark>
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E4-C-(00092	E4-C- ()5042	E4-C-(05071	E4-C- (0 5092	E4-C-	05113	E4-C-06011		E4-C-I	<mark>06009</mark>
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E4-C-0	00171	E4-C-()5053	E4-C-05074		E4-C-05095		E4-C-05118		E4-C-06014			
E4-C-(00172	E4-C-()5054	E4-C-()5075	E4-C- (05096	E4-C-	05119	E4-C-(06015		
E4-C-0	00210	E4-C-()5055	E4-C-(05076	E4-C-	05097	E4-C-	05120	E4-C-(06016		
E4-C-(00218	E4-C-()5056	E4-C-()5077	E4-C-	05098	E4-C-	05121	E4-C-(06017		
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E4-C-0	00279	E4-C-(05060	E4-C-(05081	E4-C-	05102	E4-C-	05125	E4-C-(06021		
E4-C-0	00282	E4-C-()5061	E4-C-(05082	E4-C-	05103	E4-C-	05126	E4-C-(06022		
E4 C (00301	E4-C-()5062	E4 C ()5083	E4-C-	05104	E4-C-	06001	E4-C-(06025		
E4-C-(00309	E4-C-()5063	E4-C-(05084	E4-C-		E4-C-	06002	E4-C-(06026		
E4-C-0	00349	E4-C-0)5064	E4-C-0	05085	E4-C-	05106	E4-C-	06003	E4-C-0	06027		

E4P-B-05001	E4P-C-00020	E4P-C-05004	E4P-C-05011	E4P-C-06004	E4P-C-06011
E4P-B-05002	E4P-C-00023	E4P-C-05005	E4P-C-05012	E4P-C-06005	E4P-C-06012
E4P-B-05003	E4P-C-00051	E4P-C-05006	E4P-C-05013	E4P-C-06006	E4P-C-06013
E4P-B-05004	E4P-C-00224	E4P-C-05007	E4P-C-05014	E4P-C-06007	E4P-C-06014
	E4P-C-05001	E4P-C-05008	E4P-C-06001	E4P-C-06008	E4P-C-06017
	E4P-C-05002	E4P-C-05009	E4P-C-06002	E4P-C-06009	
	E4P-C-05003	E4P-C-05010	E4P-C-06003	E4P-C-06010	

Note: with the issue 2 of the Service Bulletin, not affected engine s/ns are removed. Removed engine s/ns are marked in grey and strikethrough (example).

Note: with the issue 3 of the Service Bulletin, not affected engine s/ns are removed, and affected engine s/ns are added. Removed engine s/ns are marked in light blue and strikethrough (example). Added engine s/ns are highlighted in yellow (example).

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Part Affected: E4A-50-000-BHY, Oil Pump

Serial numbers affected:

			1	i								
0011	00512	0056	00609	00675	0081	0131	0179	0231	0281	0337	0392	0457
0015	00513	00561	0061	00677	0082	0132	0181	0232	0282	0339	0393	0458
0016	00514	00562	00610	00678	0083	0133	0182	0233	0285	0340	0394	0459
0017	00515	00563	00611	00679	0087	0134	0183	0234	0287	0341	0395	0460
0019	00516	00564	00612	0068	0088	0135	0184	0236	0289	0342	0396	0461
0021	00517	00565	00613	00680	0089	0136	0185	0237	0290	0343	0397	0462
0022	00518	00566	00614	00681	0090	0137	0186	0238	0291	0344	0398	0463
0023	00519	00567	00617	00682	0091	0138	0187	0239	0292	0345	0399	0464
0024	0052	00569	00618	00684	0092	0139	0188	0240	0294	0346	0400	0465
0026	00520	0057	0062	00695	0093	0140	0190	0241	0295	0347	0401	0466
0027	00521	00570	00620	00697	0094	0141	0191	0242	0297	0349	0402	0467
0028	00522	00571	00621	00700	0095	0142	0192	0243	0298	0350	0403	0469
0030	00523	00572	00622	00701	0096	0143	0194	0244	0299	0351	0404	0470
0031	00525	00573	00623	00703	0097	0145	0195	0245	0300	0352	0405	0471
0032	00528	00574	00625	00705	0098	0146	0196	0246	0301	0353	0406	0472
0033	00529	00575	00628	00706	0099	0147	0199	0248	0302	0354	0417	0473
0034	00530	00576	00630	00707	0100	0148	0200	0250	0303	0355	0418	0474
0035	00531	00577	00631	00708	0101	0149	0201	0251	0304	0356	0419	0475
0036	00532	00578	00634	0071	0102	0150	0202	0252	0305	0357	0421	0476
0037	00534	00579	00639	00710	0103	0151	0203	0253	0306	0358	0428	0478
0039	00535	00580	0064	00711	0104	0152	0204	0254	0308	0359	0430	0479
0042	00536	00581	00646	00712	0105	0153	0205	0255	0310	0360	0431	0480
0043	00537	00584	00649	00713	0106	0154	0206	0256	0313	0361	0432	0481
0044	00538	00585	0065	00714	0107	0155	0207	0257	0314	0362	0433	0482
0045	00539	00586	00651	00715	0108	0156	0208	0258	0315	0363	0434	0483
0046	00540	00587	00654	00716	0109	0157	0209	0259	0316	0364	0437	0484
0047	00541	00588	00655	00718	0110	0159	0210	0260	0317	0365	0438	0485
0048	00542	00589	00656	00719	0111	0160	0211	0261	0318	0366	0439	0486
0049	00544	0059	00657	00720	0112	0161	0213	0262	0319	0368	0440	0487
00497	00545	00590	0066	00721	0113	0162	0214	0263	0321	0369	0441	0488
00498	00546	00591	00660	00724	0114	0163	0215	0264	0322	0370	0442	0489
0050	00547	00592	00661	00726	0115	0164	0216	0265	0323	0371	0443	0490
00500	00548	00593	00662	00727	0119	0165	0217	0266	0324	0373	0444	0491
00501	00549	00594	00664	00728	0120	0166	0218	0267	0325	0378	0445	0492
00502		00595	00665	0074	0121	0168	0219	0269	0326	0379	0446	0493
	00551			0075		0169		0270			0447	
00505			00667	0076	0123	0170		0272	0328	0383	0448	0495
00506	00553	00598	00668	00763	0124	0171	0222	0273	0330	0384	0450	
00507	00554	00599	00669	0077	0125	0172	0223	0274	0331	0386	0451	
00508	00555	0060	0067	00774	0126	0174	0226	0275	0332	0387	0452	
00509	00556	00603	00670	0078	0127	0175	0227	0276	0333	0388	0453	
0051	00557	00604	00671	00783	0128	0176	0228	0277	0334	0389	0454	
00510	00558	00605	00673	0079	0129	0177	0229	0279	0335	0390	0455	
00511	00559	00608	00674	0080	0130	0178	0230	0280	0336	0391	0456	

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1.3. REASON

Production casting deviation leading to a possible contamination of the oil system and thus blockage of the oil pump.

1.4. TIME OF COMPLIANCE

For all the Engines with less than 10 Flight Hours (FH), before the next flight (ferry fly to a maintenance service allowed). For the Engines having more than 10 FH:

Within 3 months from the effective date of the Service Bulletin Approval or

For E4A engines:		With more than 10FH and less than 50 FH, before exceeding 70 FH or during the next maintenance check, whichever comes first With more than 50 FH, within the next 20 FH or during the next maintenance check, whichever comes first
For E4B/C/P engines:	-	With more than 10FH, within the next 100 FH or during the next maintenance check, whichever comes first

1.5. CONCURRENT DOCUMENTS / REFERENCES

Maintenance Manual E4.08.04, latest revision

1.6. OTHER PUBLICATIONS AFFECTED

None

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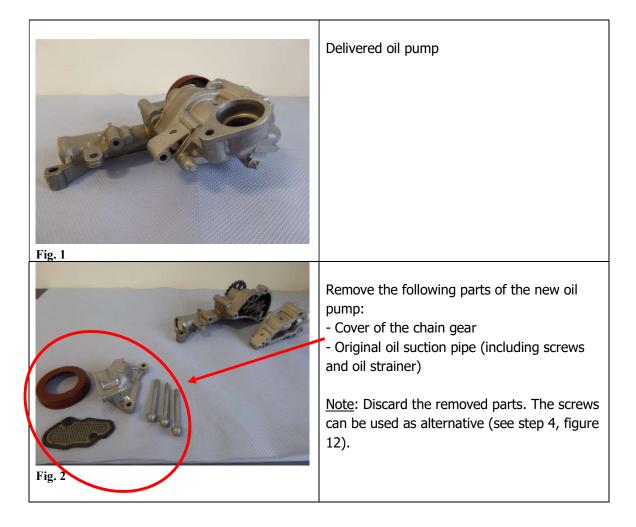


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2. TECHNICAL DETAILS

2.1. DELIVERY CONDITION

Delivery of the new oil pump



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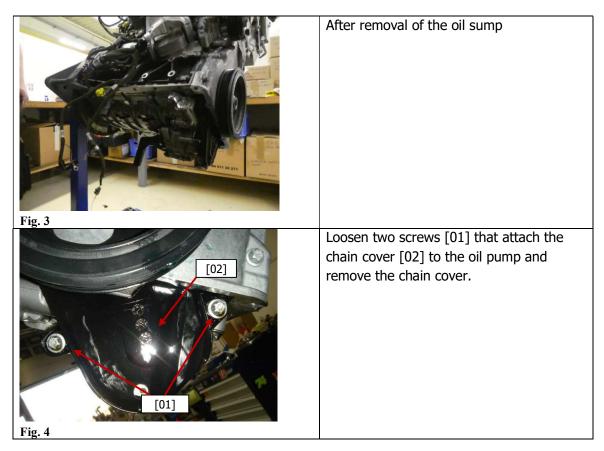
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2.2. ACCOMPLISHMENT / INSTRUCTIONS



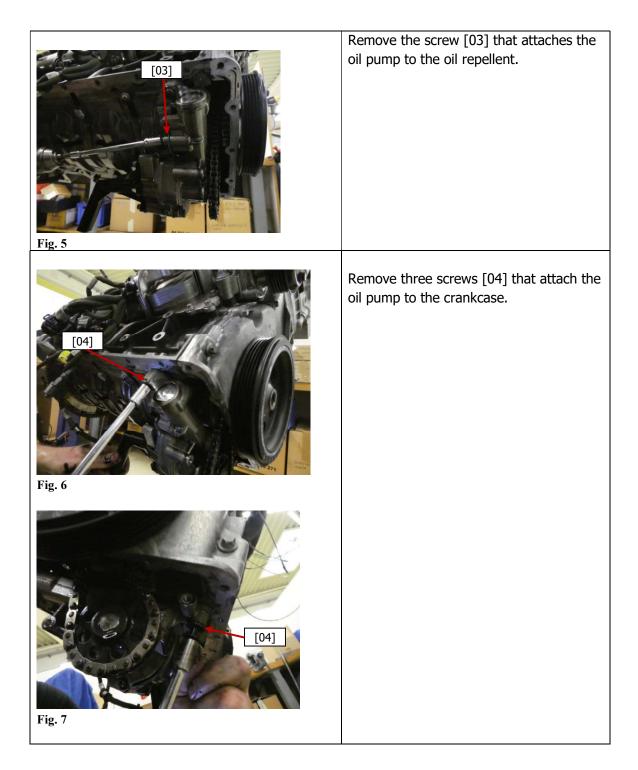
Make sure that the working area is clean. Use clean gloves. Make sure that no sand or dirt goes into the engine.

- 1. Replace the engine oil filter according to Maintenance Manual, Ch. 79. Visually examine the used Oil Filter for contamination and metal abrasion. If an abnormal condition is found (metal shavings exceeding 1.5 mm; concentration of particles; clogged filter), please contact Austro Engine for further instructions.
- 2. Remove the oil sump according to Maintenance Manual Ch.79, steps as required.
- 3. Remove the oil pump according to following steps:



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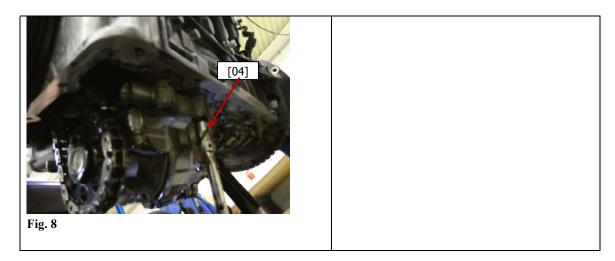
(The second seco	Mandatory Service Bulletin	Austro Engine GmbH Rudolf-Diesel-Strasse 11
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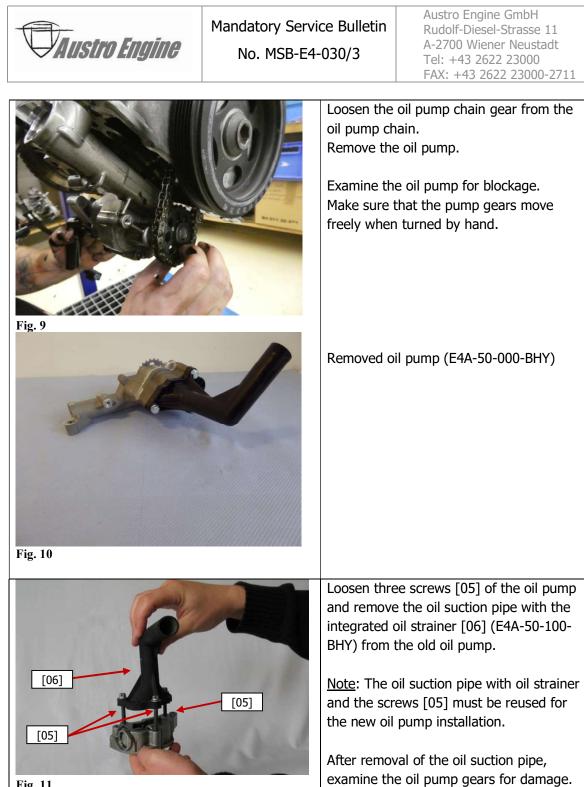


Fig. 11

AUTION

In case of a blocked, and/or partially blocked, and/or damaged oil pump, please contact Austro Engine for further instructions.

NOTE: Removed oil pump must be always returned to Austro Engine, including the engine flight hours recorded at the time of replacement.

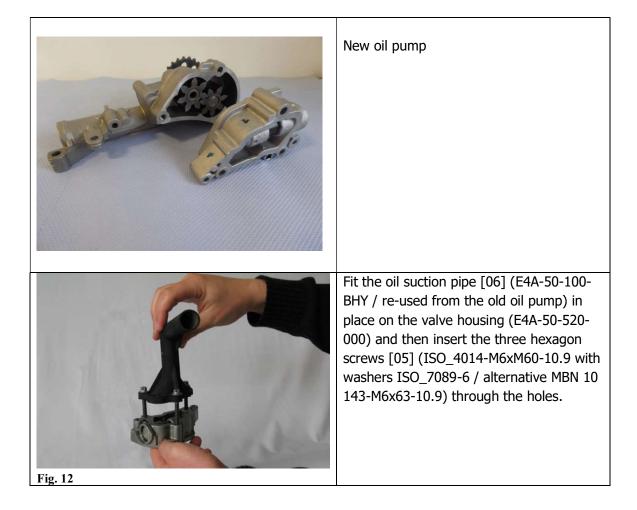
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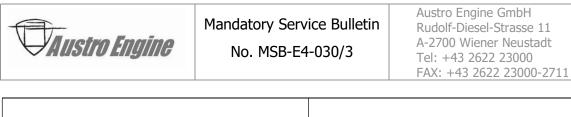
Re-used Parts:

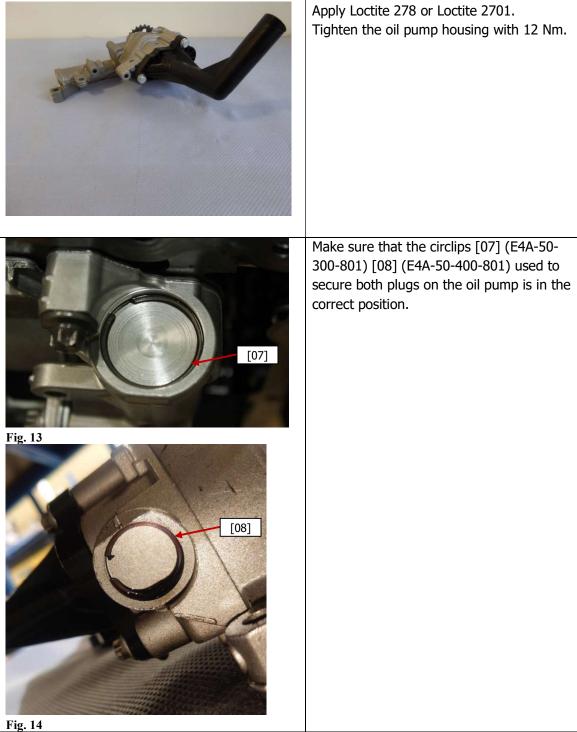
Oil suction pipe with oil strainer (E4A-50-100-BHY) All screws Chain cover (E4A-50-200-000)

- 4. Clean the parts before re-installation. The parts must be free of adhesive or sealing residues.
- 5. Install the Oil Pump according to following steps:



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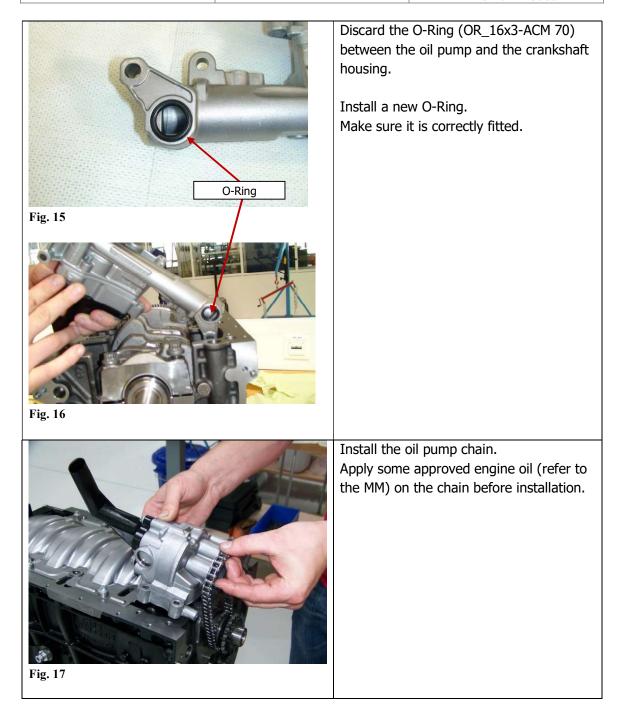
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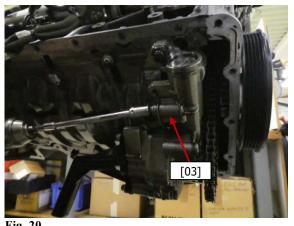


Fig. 18



Install the oil pump with O-Ring and three screws [04] (M7x27 - 8.8 - DBL 9400.40) on the crankcase. Apply Loctite 2701 or 278 on the thread and tighten with a torque of 14 Nm.

Fig. 19



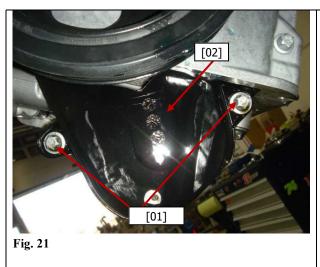
Install the screw [03] that attaches the oil pump to the oil repellent. Apply with Loctite 243 and torque it with 12 Nm.

Fig. 20

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Install the oil pump chain cover

Put the chain cover [02] in place on the oil pump and tighten the screws [01] (ISO8102-M6x20-10.9) (x2) with 12 Nm.

- 6. Install the Oil Sump according to the Maintenance Manual, Ch.79.
- 7. Replace the engine oil according to Maintenance Manual, Ch. 79.
- 8. Clean the working area.
- 9. Perform an Engine Ground Run. Refer to the Maintenance Manual, Ch.71.
- 10. Fill the completion form, §6 "Appendix" of the Service Bulletin

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2.3. ILLUSTRATIONS

None.

2.4. MASS (WEIGHT)

Not affected.

2.5. APPROVAL STATEMENT

The technical content of this document has been approved under the authority of DOA No. EASA.21J.399.

3. PLANNING INFORMATION

3.1. MATERIAL & AVAILABILITY

Quantity	Part Description p/n	Part Number				
1	oil pump	SB Kit				
1	oil filter	SB Kit				
7.5 l	engine oil	-				
1	O-Ring	(OR_16x3-ACM 70)				
1	oil sump gasket	(E4A-05-000-002 or E4A-05-000-003 as alternative)				

<u>Note</u>: Use only engine oil listed in the Operation Manual <u>Note</u>: For the Consumable list, refer to the Maintenance Manual, Ch. 01.

3.2. SPECIAL TOOLS

Number	Description	Dimensions		
1	Engine stand	-		
2	Wrench	-		
3	Oil Filter Wrench	-		
4	Oil Drain Pan	-		
5	Oil Funnel	-		
6	Socket tool set	-		
7	Latex gloves	-		
8	Container	min 8.5 l		

3.3. LABOR EFFORT

16 hours

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4. **REMARKS**

NOTE:

- $\circ\;$ All measures must be carried out by a certified engine station and certified engine mechanics.
- The accomplishment of the instructions shown under Section 2.2 must be confirmed in the respective engine log book.
- $\circ~$ The accomplishment of the instructions must be carried out within the time of compliance according chapter 1.
- In case of doubt please contact the Austro Engine GmbH After Sales Support (e-mail: <u>service@austroengine.at</u>; Tel: +43 2622 23000 2525).
- For credit information contact Austro Engine GmbH After Sales Support (e-mail: <u>service@austroengine.at</u>; Tel: +43 2622 23000 2525)

5. EXPLANATORY NOTES

5.1. SYMBOL EXPLANATION

- **<u>CAUTION:</u>** Disregarding these special instructions and safety measures can cause damage to the engine or other components.
 - **NOTE:** Additional note or instruction for better understanding of an instruction

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6. APPENDIX

Austro Engine	Service Bulletin Completion Notification	Note:
Aircraft owner:		
Aircraft Operator:		If different from the owner
Aircraft:		
Aircraft Serial Number:		
Aircraft Marks:		
Engine (RH) s/n:		For single engine a/c, fill only one row
Engine (LH) s/n:		
Flight Hours:		
Service center:		Company Name or reference of the person(s) performing the oil pump replacement
Removed Oil pump s/n:		Refer to the figure 1 to identify the correct seria number to be provided

NOTE: A scanned version of this form must be provided to <u>service@austroengine.at</u>

NOTE: The original filled version of this form, must be packed with the removed oil pump, and provided to Austro Engine





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