

SERVICE INFORMATION LETTER NO. SI40NG-083

- 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

See Austro Engine MSB-E4-036, latest approved revision.

1.2 Subject

Austro Engine Mandatory Service Bulletin MSB-E4-036 - High Pressure Pump (HPP) Inspection and Replacement, and EASA AD 2021-0274-E.

ATA-Code: 72-00

1.3 Reason

Occurrences of HPP driving gear failure causing uncommanded engine shutdown have been reported. Investigation has revealed that improper use of an assembly tool was causing certain HPP driving gears to fail prematurely. During this investigation, it was discovered that certain combinations of engine components such as cylinder heads, camshafts, and HPP gears were contributing to premature HPP gear failure. Austro Engine has issued MSB-E4-036, which incorporates the requirements of MSB-E4-034 and MSB-E4-035, both of which were previously issued to address premature failures of the HPP driving gear.

EASA has issued AD 2021-0274-E mandating the execution of MSB-E4-036.

1.4 Information

For detailed technical information, refer to the latest approved revision of Austro Engine MSB-E4-036, and EASA AD 2021-0274-E, which are applicable without any further additions or restrictions.

Austro Engine MSB-E4-036 at revision 0, and EASA AD 2021-0274-E 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.

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Technical Publications Email: Techpubs@diamondaircraft.com



Emergency Airworthiness DirectiveAD No.:2021-0274-EIssued:09 December 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:	13 December 2021

TCDS Number(s): EASA.E.200

Foreign AD: Not applicable

Supersedure: This AD supersedes EASA AD 2021-0203R1 dated 24 September 2021.

ATA 72 – Engine – High Pressure Pump Driving Gear – Inspection / Replacement

Manufacturer(s):

Austro Engine GmbH

Applicability:

Model E4 and E4P engines, all serial numbers (s/n).

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 Service Bulletin (SB) MSB-E4-036.

Affected cylinder head/HPP driving gear combination: Cylinder heads, having Part Number (P/N) E4A-12-500-000, if installed in combination with a high pressure pump (HPP) driving gear P/N E4A-30-000-601 (any revision) or P/N E4A-30-000-201 rev. AB.1.

Affected HPP driving gear: HPP driving gears, having P/N E4A-30-000-201 and having a s/n as listed in Table 1 of the SB, as defined in this AD.



Serviceable part: Any HPP driving gear, eligible for installation, which is not an affected part, provided its installation does not introduce an affected cylinder head/HPP driving gear combination on the engine.

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 HPP driving gear failure. Subsequent investigation determined that a certain batch of HPP driving gears was produced with a worn out assembly tool P/N AE300T012-1. Those HPP driving gears may have been damaged during assembly. Concurrently, it was determined that, for engines equipped with a certain cylinder head, a stack up of tolerances exists between the cylinder head, cylinder head backside cover, camshaft gear and HPP driving gear. Both scenarios could result in premature HPP driving gear failure.

This condition, if not detected and 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 MSB-E4-035 to provide instructions for HPP driving gear inspection on engines equipped with a cylinder head P/N E4A-12-500-000, and MSB-E4-034/1 to provide instructions for replacement of affected HPP gears, as defined in this AD. Consequently, EASA issued Emergency AD 2021-0203-E (later revised) to require inspection and/or replacement of HPP gears.

Since that AD was issued, it has been determined that an affected cylinder head/HPP driving gear combination, as defined in this AD, may cause damage to the HPP driving gears. Austro Engine issued the SB, as defined in this AD, incorporating the requirements of MSB-E4-034/1 and MSB-E4-035, to provide instructions for HPP driving gear inspection and replacement. The SB also prohibits (re-)installation of a HPP driving gear E4A-30-000-601 or P/N E4A-30-000-201 rev. AB.1 on engines having a cylinder head P/N E4A-12-500-000 installed. The SB further removes from the list of affected HPP driving gears certain engines and HPPs, which were reworked by Austro Engine pending approval of MSB-E4-034.

For the reason described above, this AD partially retains the requirements of EASA AD 2021-0203R1, which is superseded, and requires replacement of the HPP driving gear on engines with an affected cylinder head/HPP driving gear combination installed. This AD also provides requirements for HPP driving gear installation.

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

Required as indicated, unless accomplished previously:

Inspection and Replacement:

(1) For engines equipped with an affected cylinder head/HPP driving gear combination: Before next flight after the effective date of this AD, inspect and replace the HPP driving gear in accordance with the instructions of the SB.



Corrective Action(s):

(2) If, during the inspection as required by paragraph (1) of this AD, the HPP driving gear does not meet the acceptable criteria, as defined in the SB, before next flight, inspect the HPP shaft, the cylinder head, the camshaft gear and the inlet/outlet camshaft bushing in accordance with the instructions of the SB and, depending on findings, replace the parts with serviceable parts in accordance with the instructions of Austro Engine E4/E4P Maintenance Manual, Doc. No. E4.08.04, chapter 85.

Replacement:

(3) For engines equipped with an affected HPP driving gear: Within the compliance time specified in Table 1 of this AD, as applicable, replace each affected HPP driving gear with a serviceable part in accordance with the instructions of the SB.

	ngine Group / Flight Hours I) accumulated (see Note 1)	Compliance Time
1	40 FH or more	Before next flight after 14 September 2021 [the effective date of EASA AD 2021-0203-E]
	less than 40 FH	Before exceeding 40 FH
2	80 FH or more	Before next flight after 14 September 2021 [the effective date of EASA AD 2021-0203-E]
	less than 80 FH	Before exceeding 80 FH

Note 1: Unless specified otherwise, the FH in Table 1 of this AD are those accumulated by the affected HPP driving gear since first installation on the HPP.

Credit:

(4) Inspection and replacement of the HPP driving gear on an engine, accomplished before the effective date of this AD in accordance with the instructions of MSB-E4-034 Revision 1 or MSB-E4-035, as applicable, are acceptable to comply with the requirements of paragraphs (1) to (3) of this AD for that engine, provided no affected cylinder head/HPP driving gear combination has been installed on that engine at any time after that inspection.

Ferry Flight:

(5) For a twin-engine aeroplane that has one or two Group 2 engine(s) installed, 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).

Part(s) Installation:

- (6) From the effective date of this AD, do not install an affected HPP gear on any engine.
- (7) From the effective date of this AD, do not install an affected cylinder head/HPP driving gear combination on any engine.



Ref. Publications:

Austro Engine SB MSB-E4-036 original issue dated 30 November 2021.

Austro Engine E4/E4P Maintenance Manual, Doc. No. E4.08.04 rev. 30 dated 01 July 2021.

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

Austro Engine SB MSB-E4-034 Revision 1 dated 10 September 2021.

Austro Engine SB MSB-E4-035 original issue dated 10 September 2021.

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.
- 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>support@austroengine.at</u>.





MANDATORY

SERVICE BULLETIN

No. MSB-E4-036

Supersedes MSB-E4-035 and MSB-E4-034

Distribution:	Portal
Date:	01.12.2021

1. Basic information

1.1. Subject

High Pressure Pump (HPP) Inspection and Replacement

1.2. Record of revisions

Rev.	Date	Reason
0	30.11.2021	Initial release

1.3. Definitions and Acronyms

For the purpose of this Service Bulletin, the following definitions and acronyms apply:

CH:	Cylinder Head
FH:	Flight Hours
HPP:	High Pressure Pump
n/a:	Not applicable
p/n or p/ns:	Part number or Part Numbers
SB:	Service Bulletin
s/n or s/ns:	Serial Number or Serial Numbers
Group 1 engines:	Model E4 engines in configuration "-A", installed on single engine aeroplanes
Group 2 engines:	Model E4 engines in configuration "-B" or "-C" and Model E4P engines, installed on twin-engine aeroplanes
Serviceable part:	Any HPP driving gear, eligible for installation, which is not an affected part

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1.4. Engines affected

Engine affected:	E4 Series
Serial numbers affected:	All E4/E4P engine s/ns having an affected CH installed All E4/E4P engine s/ns having an affected HPP gear installed
Affected HPP gear:	HPP driving gear p/n E4A-30-000-201 having s/n listed in the following Table 1
Affected cylinder head:	CH p/n E4A-12-500-000, installed in combination with a HPP gear p/n E4A-30-000-601 (any revision) or p/n E4A-30-000-201 rev. AB.1

Table 1 lists the s/ns of the affected driving gears installed on certain batches of
HPP p/n E4A-30-000-000 and E4A-30-000-BHY. To determine if an affected part is
installed, s/ns of the HPP on which an affected part is installed and the engine s/n
on which such HPP is installed are provided. Where the engine s/n is not
indicated, the HPP was provided as a spare part. Please note that only the gear
s/ns identify an affected part, engine and HPP s/ns are provided for reference only

Note: To identify the cylinder head installed, refer to the maintenance manual E4.08.04 chapter 85. Additional Cylinder Head identification methods are provided in the Service Instruction no. SI-E4-016

Note: In respect of the Service Bulletin no. MSB-E4-034, engines and parts were reworked by Austro Engine pending approval of the initial release. To ease the identification, removed s/ns are marked in grey and strikethrough (example)

Note: For these engines where the MSB-034 or/and MSB-035 were performed, refer to the paragraph 1.9 for compliance credits

Table 1 -	 Affected 	HPP driving	gear serial	numbers

	Linh Droceure	Com	Engine	115		Coor			1	Lligh Dress		Com	Engine	
	High Pressure		Engine		gh Pressure			ngine		High Press			Engine	
	Pump S/N	S/N	S/N		Pump S/N	S/N		S/N		Pump S/	N	S/N	S/N	
1	9-09-11-02-011	62 0246		20-0	6-18-02-00889	1049				20-10-26-02-0	00628	1950		
1	9-09-11-02-011	67 0414	E4-C-05107	20-0	6-18-02-00890	1051				20 10 26 02 ()0629	1968		
1	9-09-11-02-011	68 0270	E4P-C-05003	20-0	6-18-02-00891	1001				20-10-26-02-0	00630	1775		
1	9-09-11-02-011	69 0240		20-0	6-18-02-00893	1028	E4-A	-00198		20-10-26-02-0	00631	1773		
1	9-09-11-02-011	70 0410	E4P-C-05005	20-0	6-18-02-00894	0550				20-10-26-02-0	0632	1903		
1	9-09-11-02-011	71 0412	E4-A-00232	20-0	6-18-02-00895	1041	E4-C	-06042		20-10-26-02-0	0633	1211		
1	9-09-11-02-011	72 0415	E4-C-05109	20-0	6-18-02-00896	1048	E4-C	-06031		20-10-26-02-0	00634	1233		
1	9-09-11-02-011	89 0382		20-0	6-18-02-00897	1030				20-10-26-02-0	0635	1363	E4-A-06082	
1	9-09-11-02-011	90 0267		20-0	6-18-02-00898	1027				20-10-26-02-0	00637	1785		
1	9-09-11-02-011	91 0258		20-0	6-18-02-00899	1056	E4P-	C-06027		20-10-26-02-0	00638	1958		
1	9-09-11-02-011	92 0256		20-0	6-18-02-00900	0664	E4-A	-06021		20-10-26-02 ()0639	1887		
1	9-09-11-02-011	93 0261		20-0	6-18-02-00901	1114				20-10-26-02-0	00640	1982		
1	9-09-11-02-011	94 0257		20-0	6-18-02-00902	0979				20-10-26-02-0	00641	1953		
1	9-09-11-02-011	95 0264		20-0	6-18-02-00903	1061				20-10-26-02-0	00642	1811		
1	9-09-11-02-011	96 0255		20-0	6-18-02-00904	0762				20-10-26-02-0	00643	1818		
1	9-09-11-02-011	97 0274		20-0	6-18-02-00905	0756				20-10-26-02-0	00644	1890		
1	9-09-11-02-011	98 0408		20-0	6-18-02-00906	1060	E4-A	-00475		20-10-26-02-0	00645	1781		
1	9-09-11-02-011	99 0272		20-0	6-18-02-00907	1023	E4-A	-00408		20-12-14-02-0	00002	1955		
1	9-09-11-02-012	00 0333		20-0	0-06-18-02-00908 1073			20-12-14-02-0	00003	1449	E4-A-06088			
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High Pressure	Gear	Engine	
Pump S/N	S/N	S/N	_
19-09-11-02-01201 19-09-11-02-01202	0332 0244		
19-09-11-02-01202	0330		-
19-09-11-02-01204	0383		
19-09-11-02-01205	0254		
19-09-11-02-01206	0324		
19-09-11-02-01207	0262		
19-09-11-02-01208	0237		
19-09-11-02-01209	0329		
19-09-11-02-01210	0386		
19-09-11-02-01211	0265		
19-10-01-02-00755 19-10-01-02-00756	0233	E4-B-05006	-
19-10-01-02-00750	0224	E4-B-05000	
19-10-01-02-00763	0241	E4-B-05001	
19-10-01-02-00764	0416		
19-10-01-02-00768	0260		
19-10-01-02-00772	0268	E4-A-05086	
19-10-01-02-00775	0248		
19-10-01-02-00779	0370		Ļ
19-10-01-02-00784	0231		
19-10-01-02-00786	0242		+
19-10-01-02-00788 19-10-01-02-00790	0235		
19-10-01-02-00790	0266 0131	E4-C-05106	+
19-10-01-02-00804	0228	E4-B-05002	
19-10-01-02-00809	0227	E4-A-05085	
19-10-14-02-00404	0222		
19-10-14-02-00405	0247	E4-C-05110	
19-10-14-02-00409	0364	E4-A-05084	
19-10-14-02-00410	0253		
19-10-14-02-00415	0365	E4-C-05105	
19-10-14-02-00416	0232		
19-10-14-02-00420 19-10-14-02-00432	0236	E4 D 0E008	-
19-10-14-02-00432 19-10-14-02-00437	0229	E4-B-05008 E4-A-05075	
19-10-14-02-00437	0239	E4-B-05005	F
19-10-14-02-00446	0374	E4-A-05087	
19-10-14-02-00454	0193	E4P-B-05004	
19-10-14-02-00457	0251	E4-C-05108	
19-12-12-02-00002	0195	E4-A-05081	
19-12-12-02-00004	0366		
19-12-12-02-00005	0169		
19-12-12-02-00009	0363		-
19-12-12-02-00011	0358		
19-12-12-02-00015 19-12-12-02-00016	0190 0376		-
19-12-12-02-00018	03/6	E4-A-05079	
19-12-12-02-00017	0309	211103073	ł
19-12-12-02-00023	0225		
19-12-12-02-00029	0361	E4P-C-05001	ſ
19-12-12-02-00031	0372	E4P-C-05004	
19-12-12-02-00032	0127		
19-12-12-02-00033	0177		
19-12-12-02-00034	0179		
19-12-12-02-00035	0118		-
19-12-12-02-00039	0223	E4 C 05111	
10 12 12 02 00040		E4-C-05111 E4P-B-05003	H
19-12-12-02-00046 19-12-12-02-00047		L-0-00003	-
19-12-12-02-00047	0120		
19-12-12-02-00047 19-12-12-02-00048	0362		-
19-12-12-02-00047			
19-12-12-02-00047 19-12-12-02-00048 19-12-12-02-00049	0362 0197		
19-12-12-02-00047 19-12-12-02-00048 19-12-12-02-00049 19-12-12-02-00057	0362 0197 0122		

High Pressure	Gear	Engine	High
Pump S/N	S/N	S/N	Pu
20-06-18-02-00909	1042		20-12-
20-06-18-02-00910	1066	E4-C-06043	20-12-
20-06-18-02-00911	0766		20-12-
20-06-18-02-00912	1046		20-12-
20-06-18-02-00913	1044		20-12-
20-06-18-02-00914	1103	E4-C-06032	20-12-
20-06-18-02-00915	1128	E4-B-00112	20-12-
20-06-18-02-00916	0699		20-12-
20-06-18-02-00917	1026	E4-A-00214	20-12-
20-06-18-02-00918	1100		20-12-
20-06-18-02-00919	1069	F4 4 00005	20-12-
20-06-18-02-00920	0723	E4-A-06025	20-12-
20-06-18-02-00921	1127	F4 A 002C7	20-12-
20-06-18-02-00922 20-06-18-02-00923	1034	E4-A-00367	20-12-20-12-
20-06-18-02-00923 20-06-18-02-00924	1032		20-12-
20-06-18-02-00925	1036 1094		20-12-
20-06-18-02-00925	1034	E4-A-06061	20-12-
20-06-18-02-00927	1011	L4-A-00001	20-12-
20-06-18-02-00928	1030	E4-C-00041	20-12-
20-06-18-02-00929	1031	2.00041	20-12-
20-06-18-02-00930	1015	E4-A-00604	20-12-
20-06-18-02-00931	0632	E4-A-06024	20-12-
20-06-18-02-00932	1082		20-12-
20-06-18-02-00933	1024	E4-A-06060	20-12-
20-06-18-02-00934	0833	E4-A-00456	20-12-
20-06-18-02-00935	1012		20-12-
20-06-18-02-00936	1006		20-12-
20-06-18-02-00937	1021		20-12-
20-06-18-02-00938	1004		20-12-
20-06-18-02-00939	0622		20-12-
20-06-18-02-00940	0729		20-12-
20-06-18-02-00941	0585		20-12-
20-06-18-02-00942	0769		20-12-
20-06-18-02-00943	0830		20-12-
20-06-18-02-00944	0849		20-12-
20-06-18-02-00945	0820		21-02-
20-06-18-02-00946	0571	EA A 00000	21-02-
20-06-18-02-00947	0825	E4-A-06030	21-02-
20-06-18-02-00948	0683	E4-A-06013	21-02-
20-06-18-02-00949 20-06-18-02-00950	0734		21-02-
20-06-18-02-00950	0738 1081		21-02-
20-06-18-02-00951 20-06-18-02-00952	0690		21-02-
20-06-18-02-00953	0827		21-02-
20-06-18-02-00953	0641		21-02-
20-06-18-02-00955	0805		21-02-
20-06-18-02-00956	0625		21-02-
20-06-18-02-00957	0792		21-02-
20-06-18-02-00958	0815		21-02-
20-06-18-02-00959	0840		21-02-
20-06-18-02-00960	0839		21-02-
20-06-18-02-00961	0644	E4P-C-06008	21-02-
20-06-18-02-00962	0802	E4-A-00323	21-02-
20-06-18-02-00963	0810	E4-C-00091	21-02-
20-06-18-02-00964	0793		21-02-
20-06-18-02-00965	0966		21-02-
20-06-18-02-00966	0783		21-02-
20-06-18-02-00967	0848		21-02-
20-06-18-02-00968	0974		21-02-
20-06-18-02-00970	0736		21-02-
20-06-18-02-00971	0856		21-02-
20-06-18-02-00972	1079	E4-A-00507	21-02-
20-06-18-02-00973	0732		21-02-
20-06-18-02-00974	0674		21-02-
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High Pressure	Gear	Engine
Pump S/N	S/N	S/N
20-12-14-02-00004	1976	
20-12-14-02-00005 20-12-14-02-00006	1938	
20-12-14-02-00006	1816 1947	
20-12-14-02-00007	1947	
20-12-14-02-00009	1929	
20-12-14-02-00010	1799	
20-12-14-02-00011	1986	
20-12-14-02-00012	1986	
20-12-14-02-00013	1368	
20-12-14-02-00014	1940	
20-12-14-02-00017	1422	E4-A-06080
20-12-14-02-00021	1941	L4 A 00000
20-12-14-02-00021	1779	
20-12-14-02-00024	1946	
20-12-14-02-00026	1974	
20-12-14-02-00028	1969	
20-12-14-02-00028	1921	
20-12-14-02-00035	1817	
20-12-14-02-00038	1817	
20-12-14-02-00038	1346	
20-12-14-02-00033	1830	
20-12-14-02-00048	1178	
20-12-14-02-00052	1350	E4-C-00604
20-12-14-02-00053	1437	24 2 00004
20-12-14-02-00059	1167	
20-12-14-02-00064	1405	
20-12-14-02-00065	1331	E4 A 06076
20-12-14-02-00069	1434	E4-A-06087
20-12-14-02-00073	1375	
20-12-14-02-00074	1389	E4-A-06092
20-12-14-02-00075	1403	E4-C-06057
20-12-14-02-00079	1342	
20-12-14-02-00080	1380	
20-12-14-02-00081	1343	E4-A-06068
20-12-14-02-00086	1400	E4P-C-06049
21-02-08-02-00002	1349	
21-02-08-02-00003	1446	
21-02-08-02-00004	1319	E4-A-00115
21-02-08-02-00005	1340	E4-B-00541
21-02-08-02-00006	1439	E4P-C-06056
21-02-08-02-00007	1402	
21-02-08-02-00008	1384	
21-02-08-02-00009	1412	
21-02-08-02-00010	1372	
21-02-08-02-00011	1355	E4-A-06095
21-02-08-02-00013	1163	E4-C-06055
21-02-08-02-00015	1479	
21-02-08-02-00016	1432	
21-02-08-02-00017	1360	
21-02-08-02-00018	1383	
21-02-08-02-00019	1329	
21-02-08-02-00020	1330	E4-A-06085
21-02-08-02-00021	1435	
21-02-08-02-00022	1410	
21-02-08-02-00023	1373	E4-C-00344
21-02-08-02-00024	1395	
	1367	E4-C-06068
21-02-08-02-00025	1320	
21-02-08-02-00025 21-02-08-02-00026	1520	
21-02-08-02-00026 21-02-08-02-00027	1414	
21-02-08-02-00026 21-02-08-02-00027 21-02-08-02-00028		
21-02-08-02-00026 21-02-08-02-00027 21-02-08-02-00028 21-02-08-02-00029	1414 1392 1431	
21-02-08-02-00026 21-02-08-02-00027 21-02-08-02-00028 21-02-08-02-00029 21-02-08-02-00030	1414 1392 1431 1333	E4-A-00504
21-02-08-02-00026 21-02-08-02-00027 21-02-08-02-00028 21-02-08-02-00029	1414 1392 1431	E4-A-00504

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Nov.

Rev. No.

Revision Date



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

High Pressure	Gear	Engine	
Pump S/N	S/N	S/N	
19-12-12-02-00066	0407	E4-C-05112	20
19-12-12-02-00068	0263	E4-B-05012	20
19-12-12-02-00070 19-12-12-02-00071	0371	E4-A-05083	20
19-12-12-02-00071 19-12-12-02-00072	0238	E4-C-05117 E4-B-05007	20
19-12-12-02-00072	0413 0117	E4-D-05007	20 20
19-12-12-02-00078 19-12-12-02-00077	0249		20
19-12-12-02-00077	0249	E4-C-05116	20
19-12-12-02-00079	0409	E4-B-05010	20
20-01-15-02-00861	0405	E4P-C-05008	20
20-01-15-02-00864	0348	L41 -C-05008	20
20-01-15-02-00888	0425		20
20-01-15-02-00912	0288	E4-C-00001	20
20-01-15-02-00926	0315	E4P-C-005011	20
20-01-15-02-00929	0385		20
20-01-15-02-00933	0375		20
20-01-15-02-00934	0180	E4-C-05093	20
20-01-15-02-00938	0360		20
20-01-15-02-00939	0143		20
20-01-15-02-00940	0250	E4-B-05003	20
20-01-15-02-00941	0147		20
20-01-15-02-00942	0230	E4-A-05082	20
20-01-15-02-00943	0368		20
20-01-15-02-00944	0252		20
20-01-15-02-00945	0359	E4-C-05094	20
20-02-13-02-01378	0338		20
20-02-13-02-01379	0399	E4P-C-05007	20
20-02-13-02-01380	0297	E4-C-05119	20
20-02-13-02-01381	0351	E4-A-05089	20
20-02-13-02-01382	0350		20
20-02-13-02-01383	0393		20
20-02-13-02-01384	0378		20
20-02-13-02-01385	0380		20
20-02-13-02-01386	0278		20
20-02-13-02-01387	0286	E4-C-00263	20
20-02-13-02-01388	0273		20
20-02-13-02-01389	0443		20
20-02-13-02-01390	0284	E4-B-05009	20
20-02-13-02-01391	0296	E4-C-05115	20
20-02-13-02-01392	0419	E4-A-05088	20
20-02-13-02-01393 20-02-13-02-01394	0334 0402		20
20-02-13-02-01394	0402		20
20-02-13-02-01395	0280		20
20-02-13-02-01390	0280		20
20-02-13-02-01397	0381		20
20-02-13-02-01399	0319	E4-A-00487	20
20-02-13-02-01400	0259		20
20-02-13-02-01401	0384		20
20-02-13-02-01402	0377		20
20-02-13-02-01403	0331		20
20-02-13-02-01404	0345		20
20-02-13-02-01405	0276		20
20-02-13-02-01406	0275		20
20-02-13-02-01407	0304		20
20-02-13-02-01408	0355	E4-C-05113	20
20-02-13-02-01409	0279	E4-B-05011	20
20-02-13-02-01410	0341		20
20-02-13-02-01411	0282		20
20-02-13-02-01412	0404		20
20-02-13-02-01413	0306	E4-C-05126	20
20-02-13-02-01414	0283		20
20-02-13-02-01415	0356		20
20-02-13-02-01416	0269	E4P-C-05009	20
20-02-13-02-01417	0298		20
- 1		••	
First Is	sue Da	ile 🛛	

High Pressure	Gear	Engine	
Pump S/N 20-06-18-02-00975	S/N 1050	S/N	2
20-06-18-02-00975	0671		2
20-06-18-02-00977	0647		2:
20-06-18-02-00978	1101	E4-B-00061	2
20-06-18-02-00979	1105	E4-C-06036	2
20-06-18-02-00980	0844		2
20-06-18-02-00981	0743		2
20-06-18-02-00982	0841		2
20-06-18-02-00983	1043	E4P-C-06019	2
20-06-18-02-00984	1116		2
20-06-18-02-00985	1047		2:
20-06-18-02-00986	0752		2:
20-06-18-02-00987	0789		2:
20-06-18-02-00988	0661	54 4 96947	2:
20-06-18-02-00989	1045	E4-A-06047	2:
20-06-18-02-00990 20-06-18-02-00991	1093	E4-C-06033	2:
20-06-18-02-00991	1059 1106		2:
20-06-18-02-00992	0895		2
20-06-18-02-00993	1065		2
20-06-18-02-00995	1005		2
20-06-18-02-00997	1039		2
20-06-18-02-00998	1013		2
20-06-18-02-01000	1089	E4-B-00050	2
20-06-18-02-01001	1064		2
20-06-18-02-01003	1067		2
20-06-18-02-01004	1070		2:
20-06-18-02-01005	1017	E4-A-06046	2
20-06-18-02-01006	1035		2
20-06-18-02-01007	1080	E4-A-00508	2:
20-06-18-02-01008	1075	54D 0 00000	2
20-06-18-02-01009	1052	E4P-C-06020	2:
20-06-18-02-01010 20-06-18-02-01011	1115 1074	E4-C-06029	2:
20-06-18-02-01011	1074	E4-C-06029	2
20-06-18-02-01012	1018	24-0-0024	2
20-06-18-02-01014	1033		2
20-06-18-02-01015	1062		2
20-06-18-02-01016	1020		2:
20-06-18-02-01017	1029		2
20-07-10-02-00002	0698		2
20-07-10-02-00003	1309	E4P-C-06038	2
20-07-10-02-00004	0861	E4P-C-06011	2:
20-07-10-02-00005	0898		2:
20-07-10-02-00006	0854		2
20-07-10-02-00007	0741		2:
20-07-10-02-00008	0889	E4 A 00207	2:
20-07-10-02-00009 20-07-10-02-00010	0867 0697	E4-A-00207	2:
20-07-10-02-00010	0748		2
20-07-10-02-00011	0748		2:
20-07-10-02-00013	0862		2
20-07-10-02-00015	0912	E4P-C-06010	2
20-07-10-02-00016	0864	E4-C-06018	2
20-07-10-02-00017	1154		2
20-07-10-02-00018	0946	E4-B-00039	2
20-07-10-02-00019	0750		2
20-07-10-02-00020	0704		2:
20-07-10-02-00021	0911		2:
20-07-10-02-00022	0803		2:
20-07-10-02-00023	0885	E4-A-06031	2
20-07-10-02-00024	0710	E4-A-05091	2:
20-07-10-02-00025	0910	E4P-Z-06002	2:
20-07-10-02-00026	0836	E4_A 05002	2:
20-07-10-02-00027	0852	E4-A-05092	2
Rev. No.		Revision	Date

High Pressure	Gear	Engine
Pump S/N 21-02-08-02-00033	S/N 1317	S/N
21-02-08-02-00033	1409	E4-A-06079
21-02-08-02-00034	1377	L4-A-00075
21-02-08-02-00036	1394	
21-02-08-02-00037	1345	E4-A-06093
21-02-08-02-00038	1454	
21-02-08-02-00040	1335	E4P-C-06048
21-02-08-02-00041	1406	
21-02-08-02-00042	1420	
21-02-08-02-00043	1404	
21-02-08-02-00044	1387	
21-02-08-02-00045	1452	E4P-C-06050
21-02-08-02-00047	1353	
21-02-08-02-00048	1322	E4-C-06067
21-02-08-02-00049	1430	E4-C-06058
21-02-08-02-00050	1397	
21-02-08-02-00051	1448	E4P-C-00067
21-02-08-02-00052	1168	E4-A-06084
21-02-08-02-00053	1464	
21-02-08-02-00054	1433	E4-C-06064
21-02-08-02-00055	1341	E4-A-00270
21-02-08-02-00056	1374	
21-02-08-02-00057	1423	
21-02-08-02-00059	1166	
21-02-08-02-00060	1407	E4-B-00382
21-02-08-02-00061	1323	E4-A-00492
21-02-08-02-00062	1445	E4-A-06090
21-02-08-02-00063	1165	E4-B-00143
21-02-08-02-00064	1413	
21-02-08-02-00065	1386	E4-A-00428
21-02-08-02-00066	1356	E4-C-06059
21-02-08-02-00067	1382	E4-C-06054
21-02-08-02-00068	1436	21000001
21-02-08-02-00069	1450	E4-B-00540
21-02-08-02-00070	1344	
21-02-08-02-00071	1324	
21-02-08-02-00072	1357	
21-02-08-02-00073	1460	E4-C-00008
21-02-08-02-00074	1461	
21-02-08-02-00075	1408	E4-A-06081
21-02-08-02-00076	1339	
21-02-08-02-00077	1326	
21-02-08-02-00078	1337	
21-02-08-02-00079	1371	
21-02-08-02-00080	1458	E4-C-06079
21-02-08-02-00081	1532	
21-02-08-02-00082	1421	E4-C-06056
21-02-08-02-00083	1459	
21-02-08-02-00084	1318	
21-02-08-02-00085	1327	E4-B-06002
21-02-08-02-00086	1393	E4-A-06094
21-02-08-02-00087	1418	E4P-C-06047
21-02-08-02-00088	1416	
21-02-08-02-00089	1495	
21-02-08-02-00091	1453	
21-02-08-02-00092	1455	E4-C-06072
21-02-08-02-00093	1465	
21-02-08-02-00095	1425	
21-02-08-02-00096	1472	
21-02-08-02-00098	1359	E4 A 06078
21-02-08-02-00099	1332	
21-02-08-02-00100	1415	
	1378	
21-02-08-02-00101		
21-02-08-02-00101 21-02-08-02-00102	1370	
21-02-08-02-00101		Page

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High Pressure Pump S/N	Gear S/N	Engine S/N
20-02-13-02-01418	0426	E4-C-05125
20-02-13-02-01419	0405	
20-02-13-02-01420	0310	
20-02-13-02-01421	0318	E4-A-05077
20-02-13-02-01422	0292	
20-02-13-02-01423	0325	
20-02-13-02-01424	0511	
20-02-13-02-01425	0307	E4-A-00397
20-02-13-02-01426	0527	
20-02-13-02-01427	0302	E4-C-05122
20-02-13-02-01428	0316	
20-02-13-02-01429	0401	E4-C-06001
20-02-13-02-01430	0347	E4-C-00218
20-02-13-02-01431	0394	
20-02-13-02-01432	0352	E4-A-00037
20-02-13-02-01433	0285	
20-02-13-02-01434	0289	
20-02-13-02-01435	0301	E4P-C-05010
20-02-13-02-01436	0388	
20-02-13-02-01437	0295	
20-02-13-02-01438	0397	E4-C-05114
20-02-13-02-01439	0234	
20-02-13-02-01440	0303	E4P-C-05006
20-02-13-02-01441	0343	
20-02-13-02-01442	0373	
20-02-13-02-01443	0353	E4-A-05090
20-02-13-02-01444	0320	E4-C-05120
20-02-13-02-01445	0354	
20-02-13-02-01446	0502	
20-02-13-02-01447	0321	
20-02-13-02-01448	0300	E4-A-00266
20-02-13-02-01449	0337	
20-02-13-02-01450	0281	
20-02-13-02-01451	0396	E4-A-05076
20-02-13-02-01452	0392	E4-C-05121
20-02-13-02-01453	0507	
20-02-13-02-01454	0328	
20-02-13-02-01455	0290	
20-02-13-02-01456	0349	E4-A-00079
20-02-13-02-01457	0390	E4-C-00233
20-02-13-02-01458	0294	
20-02-13-02-01459	0339	
20-02-13-02-01460	0441	
20-02-13-02-01461	0291	
20-02-13-02-01462	0336	
20-02-13-02-01463	0277	E4-B-00110
20-02-13-02-01464	0406	E4P-C-05012
20-02-13-02-01465	0461	
20-02-13-02-01466	0293	E4-C-05118
20-02-13-02-01467	0503	
20-02-13-02-01468	0530	
20-02-13-02-01470	0379	
20-02-13-02-01471	0299	E4-C-05123
20-02-13-02-01472	0287	
20-02-13-02-01473	0453	
20-02-13-02-01474	0423	
20-02-13-02-01475	0540	
20-02-13-02-01476	0395	
20-02-13-02-01477	0440	
20-02-13-02-01478	0444	
	0476	
20-02-13-02-01479		
20-02-13-02-01479 20-02-13-02-01480	0460	
20-02-13-02-01480	0486 0439	
20-02-13-02-01480 20-02-13-02-01481	0439	E4-A-06008
20-02-13-02-01480		E4-A-06008

High Pressure			
Pump S/N	S/N	S/N	
20-07-10-02-00028	0724		21
20-07-10-02-00029	0733		21
20-07-10-02-00030	0873	E4P-C-00224	21
20-07-10-02-00031	1085		21
20-07-10-02-00032	0942		21
20-07-10-02-00033	1153		21
20-07-10-02-00034	0832		21
20-07-10-02-00035	0929		21
20-07-10-02-00036	0703		21
20-07-10-02-00037	0948	E4-A-06036	21
20-07-10-02-00038	0860	E4-C-00122	21
20-07-10-02-00039	0821		21
20-07-10-02-00040	1310		21
20-07-10-02-00041	1158	E4-A-00066	21
20-07-10-02-00042	0930		21
20-07-10-02-00043	0877		21
20-07-10-02-00044	1151		21
20-07-10-02-00045	0917	E4-A-00116	21
20-07-10-02-00046	0878	E4P-C-05013	21
20-07-10-02-00047	0788		21
20-07-10-02-00048	1132		21
20-07-10-02-00049	1141		21
20-07-10-02-00050	1170		21
20-07-10-02-00051	1184		21
20-07-10-02-00052	1122	E4-C-06044	21
20-07-10-02-00053	1109		21
20-07-10-02-00054	1155		21
20-07-10-02-00055	1058		21
20-07-10-02-00056	1147		21
20-07-10-02-00057 20-07-10-02-00058	1144 1121		21 21
20-07-10-02-00058	1121	E4-A-00485	21
20-07-10-02-00060	1120	L4-A-00405	21
20-07-10-02-00061	1095		21
20-07-10-02-00062	1098		21
20-07-10-02-00063	1148		21
20-07-10-02-00064	1161	E4-C-06035	21
20-07-10-02-00065	1136		21
20-07-10-02-00066	1130		21
20-07-10-02-00067	1125	E4P-C-06026	21
20-07-10-02-00068	1152		21
20-07-10-02-00069	1096	E4-A-06059	21
20-07-10-02-00070	1110		21
20-07-10-02-00071	1294		21
20-07-10-02-00072	1143		21
20-07-10-02-00073	1140	E4-A-06065	21
20-07-10-02-00074	1173		21
20-07-10-02-00075	1138		21
20-07-10-02-00076	1171		21
20-07-10-02-00077	1040		21
20-07-10-02-00079	1119	E4-A-06058	21
20-07-10-02-00080	1280	E4-A-06057	21
20-07-10-02-00081	1118		21
20-07-10-02-00082	1088		21
20-07-10-02-00083	1188		21
20-07-10-02-00084	1305		21
20-07-10-02-00085 20-07-10-02-00086	1102	E4 C 06046	21
20-07-10-02-00086	1181 1180	E4-C-06046	21
20-07-10-02-00088 20-07-10-02-00090		F4-A-06052	21
20-07-10-02-00090	1183 1304	E4-A-06052 E4P-C-06031	21 21
20-07-10-02-00091 20-08-21-02-00582	1149	L-1 -C-00051	21
20-08-21-02-00583	1149		21
20-08-21-02-00583	1102		21
20-08-21-02-00585	1125		21
	0		
	1	Deviation	0-1-

Engine S/N	High Pressure Pump S/N	Gear S/N	Engine S/N
3/1	21-02-08-02-00104	1338	E4-A-06086
	21-02-08-02-00105	1398	E4-A-06083
IP-C-00224	21-02-08-02-00106	1336	E4-C-06065
	21-02-08-02-00107	1419	E4-B-06001
	21-02-08-02-00108	1411	
	21-02-08-02-00109	1463	
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	21-02-08-02-00112	1328	
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	21-02-08-02-00124	1177	
	21-02-08-02-00125 21-02-08-02-00126	1364 1396	E4-A-00455
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	21-02-08-02-00128	1340	
	21-02-08-02-00130	1451	E4-A-00532
	21-02-08-02-01548	1179	LINCOSSE
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	21-03-03-02-02275	1533	
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	21-03-03-02-02277	1837	
	21-03-03-02-02278	1485	
-C-06035	21-03-03-02-02279	1517	
	21-03-03-02-02280	1487	
	21-03-03-02-02281	1547	
P-C-06026	21-03-03-02-02282	1503	
	21-03-03-02-02283	1499	
-A-06059	21-03-03-02-02284	1543	
	21-03-03-02-02285	1544	
	21-03-03-02-02286	1498	
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-A-06065	21-03-03-02-02288	1542	
	21-03-03-02-02289	1534	
	21-03-03-02-02290 21-03-03-02-02291	1483	
	21-03-03-02-02291	1536 1481	
-A-06058	21-03-03-02-02292	1491	E4-C-06071
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A 00057	21-03-03-02-02295	1504	
	21-03-03-02-02296	1525	
	21-03-03-02-02297	1490	
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	21-03-03-02-02302	1751	
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P-C-06031	21-03-03-02-02304	1527	E4-C-00018
	21-03-03-02-02305	1468	
	21-03-03-02-02306	1489	
	21-03-03-02-02307	1466	
	21-03-03-02-02308	1482	
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87 79 22 32 59 55 28 52 64 89 177	S/N -A-06010 -A-06006		20-08/2000/20-08/2000/20-08/20000000000
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High Pressure			
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20-08-21-02-00611	1157		21-03-0
20-08-21-02-00612	1086		21-03-0
20-08-21-02-00613	1146		21-03-0
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20-08-21-02-00615	1120		21-03-0
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	1087		
20-08-21-02-00619	1099		21-03-0
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20-08-21-02-00648	0834		21-03-0
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20-08-21-02-00649	1267	E4-A-06053	21-03-0
20-08-21-02-00650	1212		21-03-0
20-08-21-02-00651	1235		21-03-0

High Pressure	Gear	Engine
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21-03-03-02-02310	1522	
21 03 03 02 02311	1519	E4 A 06102
21-03-03-02-02312	1539	
21-03-03-02-02313	1725	
21-03-03-02-02314	1492	
21-03-03-02-02315	1546	
21-03-03-02-02316	1524	
21-03-03-02-02317	1502	
21-03-03-02-02318	1516	
21-03-03-02-02319	1510	
21-03-03-02-02320	1475	
21-03-03-02-02321	1701	
21-03-03-02-02322	1443	E4 C 00110
21-03-03-02-02323	1512	E4-C-00119
21-03-03-02-02325 21-03-03-02-02326	1538 1514	E4-A-00660
		E4 B 00062
21-03-03-02-02327 21-03-03-02-02328	1526 1700	E4-B-00063
21-03-03-02-02328	1545	
21-03-03-02-02329	1545	
21-03-03-02-02330	1530	
21-03-03-02-02331	1509	E4-A-00018
21-03-03-02-02332	1513	211100010
21-03-03-02-02334	1508	
21-03-03-02-02335	1697	
21-03-03-02-02336	1520	
21 03 03 02 02337	1537	
21-03-03-02-02339	1528	
21-03-03-02-02340	1578	
21-03-03-02-02341	1548	
21-03-03-02-02342	1565	
21-03-03-02-02343	1726	
21-03-03-02-02344	1569	
21-03-03-02-02345	1571	
21-03-03-02-02346	1511	E4-C-00088
21-03-03-02-02347	1665	
21-03-03-02-02349	1541	
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21-03-03-02-02356	1576	
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21-03-03-02-02360	1507	
21-03-03-02-02361	1567	
21-03-03-02-02362	1638	
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21-03-03-02-02365	1577	E4-C-06077
21-03-03-02-02366	1473	
21-03-03-02-02367	1558	
21-03-03-02-02369	1555	
21-03-03-02-02370	1823	
21-03-03-02-02371	1559	
21-03-03-02-02372	1579	
21-03-03-02-02373	1440	E4-A-06097
21-03-03-02-02374	1692	
21-03-03-02-02375	1573	
21-03-03-02-02376	1549	
21-03-03-02-02377	1647	

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High Pressure	Gear	Engine	
Pump S/N 20-03-04-02-00038	S/N 0400	S/N E4-C-05124	20
20-03-04-02-00039	0500	E4P-C-06012	20
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20-03-04-02-00041	0437		20
20-03-04-02-00042	0543		20
20-03-04-02-00043	0473		20
20-03-04-02-00044	0494	E4-C-06007	20
20-03-04-02-00045	0340		20
20-03-04-02-00046	0515		20
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20-03-04-02-00048	0588		20
20-03-04-02-00049	0478		20
20-03-04-02-00050 20-03-04-02-00051	0541	E4D C 06002	20
20-03-04-02-00051	0448 0519	E4P-C-06002 E4-A-06003	20 20
20-03-04-02-00052	0495	L4-A-00003	20
20-03-04-02-00054	0483		20
20-03-04-02-00055	0389		20
20-03-04-02-00057	0518		20
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20-03-31-02-00193	0663	241 0 00007	20
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20-03-31-02-00198	0636		20
20-03-31-02-00199	0695	E4-A-00498	20
20-03-31-02-00200	0551		20
20-03-31-02-00201	0552	E4-A-06015	20
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	h Pressure			н
	ump S/N	S/N	S/N	
	3-21-02-00652	1226	E4-A-00244	21-(
	3-21-02-00653	1369	54.0.00440	21-0
	3-21-02-00654	1351	E4-C-00118	21-0
	3-21-02-00655	1385	E4-C-00243	21-0
	3-21-02-00656	0747	F4 A 0000	21-0
	3-21-02-00657	1264	E4-A-06064	21-0
	3-21-02-00659 3-21-02-00660	1222	E4-C-06060	21 (
	3-21-02-00660	1208 1390	E4-C-06069	21-0
	3-21-02-00662	1255	E4-A-06072	21-0
	3-21-02-00062	1388	E4-A-00514	21-0
	3-21-02-00664	1290	E4-C-06051	21-0
	3-21-02-00665	1225	E4 A 06074	21-0
	3-21-02-00666	1391	E4-A-00192	21-0
	3-21-02-00667	1215		21-0
	3-21-02-00668	1299	E4P-C-06036	21-0
	3-21-02-00669	1193		21-0
	3-21-02-00670	1361		21-0
	3-21-02-00671	1300	E4P-C-06037	21-(
20-08	3-21-02-00672	1219		21-0
20-08	3-21-02-00673	1198		21-0
20-08	3-21-02-00674	1213	E4-C-06063	21-0
20-08	3-21-02-00675	1196		21-0
20-08	3-21-02-00676	1362	E4P-C-06045	21-0
20-08	3-21-02-00677	1354		21-0
20-08	3-21-02-00678	1291	E4-A-06056	21-0
20-08	3-21-02-00679	1249		21-0
20-08	3-21-02-00680	1263		21-0
20-08	3-21-02-00681	1313		21-0
20-08	3-21-02-00682	1216		21-0
20-08	3-21-02-00683	1347		21-0
20-08	3-21-02-00684	1381		21-0
20-08	3-21-02-00685	1259	E4-C-06040	21-0
20-08	3-21-02-00686	1311	E4-A-06066	21-0
20-08	3-21-02-00687	1227	E4P-C-06043	21-0
20-08	3-21-02-00688	1281		21-0
20-08	3-21-02-00689	1271		21-(
20-08	3-21-02-00690	0581		21-0
20-08	3-21-02-00691	1279	E4-A-06063	21-0
20-08	3-21-02-00692	1254	E4-C-06045	21-0
20-08	3-21-02-00693	1258		21-(
20-08	3-21-02-00694	1283		21-0
20-08	3-21-02-00695	1277	E4-A-06070	21-0
	3-21-02-00696	1238	E4-C-00138	21-0
	3-21-02-00697	1261		21-(
20-08	3-21-02-00698	0824		21-0
	3-21-02-00699	1302	E4P-C-06039	21-(
	3-21-02-00700	1307	E4-C-06039	21-(
20-08	3-21-02-00701	1284	E4P-C-06035	21-(
20-08	3-21-02-00702	1252	E4-B-00202	21-0
20-08	3-21-02-00703	1268		21-0
20-08	3-21-02-00704	1244	E4-A-06069	21-0
	3-21-02-00705	1296	E4-A-06071	21-0
20-08	3-21-02-00706	1276		21-0
	3-21-02-00707	1247		21-0
	3-21-02-00708	1240		21-0
	3-21-02-00709	1275		21-0
	3-21-02-00710	1251		21 (
	3-21-02-00711	1287	E4-A-06062	21-0
	3-21-02-00712	1272		21-(
	3-21-02-00713	1297		21-(
	3-21-02-00714	1242		21-0
	3-21-02-00715	1295	E4-C-06038	21-0
	3-21-02-00716	1289		21-0
20-08	3-21-02-00717	0691		21-0
	Day Ma		Povision	Data
	Rev. No.		Revision	Date

High Pressure	Gear	- (n)
Pump S/N 21-03-03-02-0237	S/N 1582	S/N E4P-C-06053
21-03-03-02-0237		_
21-03-03-02-0238		
21-03-03-02-0238		_
21-03-03-02-0238		
21-03-03-02-0238	5 1441	
21 03 03 02 0238	6 1358	E4 A 06098
21-03-03-02-0238	7 1506	
21-03-03-02-0238	8 1589	E4-C-06075
21-03-03-02-0238	9 1572	E4-C-06080
21-03-03-02-0239		
21-03-03-02-0239		
21-03-03-02-0239		
21-03-03-02-0239		
21-03-03-02-0239 21-03-03-02-0239		
21-03-03-02-0239		
21-03-03-02-0239		
21-03-03-02-0239		
21-03-03-02-0239		
21-03-03-02-0240		
21-03-03-02-0240		
21-03-03-02-0240		
21-03-03-02-0240	3 1840	
21-03-03-02-0240		
21-03-03-02-0240		
21-03-03-02-0240		
21-03-03-02-0240		
21-03-03-02-0240		
21-03-03-02-0240		
21-03-03-02-0241 21-03-03-02-0241		
21-03-03-02-0241		
21-03-03-02-0241		
21-03-03-02-0241		
21-03-03-02-0241		
21-03-03-02-0241		
21-03-03-02-0241	.8 1629	
21-03-03-02-0241	.9 1813	
21-04-08-02-0059	2 1722	
21-04-08-02-0059	3 1610	
21-04-08-02-0059		
21-04-08-02-0059		
21-04-08-02-0059		
21-04-08-02-0059		
21-04-08-02-0059		
21-04-08-02-0059 21-04-08-02-0060		
21-04-08-02-0060		
21-04-08-02-0060		
21-04-08-02-0060		
21-04-08-02-0060		
21-04-08-02-0060		
21-04-08-02-0060	6 1599	
21-04-08-02-0060	1694	
21-04-08-02-0060		
21-04-08-02-0060		
21 04 08 02 0061		
21-04-08-02-0061		
21-04-08-02-0061	3 4005	
21-04-08-02-0061 21-04-08-02-0061		
21-04-08-02-0061 21-04-08-02-0061 21-04-08-02-0061	.4 1757	
21-04-08-02-0061 21-04-08-02-0061 21-04-08-02-0061 21-04-08-02-0061	.4 1757 .5 1826	
21-04-08-02-0061 21-04-08-02-0061 21-04-08-02-0061 21-04-08-02-0061 21-04-08-02-0061	.4 1757 .5 1826 .6 1649	
21-04-08-02-0061 21-04-08-02-0061 21-04-08-02-0061 21-04-08-02-0061	.4 1757 .5 1826 .6 1649	

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S/N 0546 0672	S/N
0672	
0482	
0567	
0649	
0677	
0660	
0601	
0586	
0459	
0565	
0558	
0684	
0654	
0599	
0666	
0580	
0592	
0572	
0904	E4P-C-06018
0971	E4-A-06041
0549	
0594	
0569	
0593	E4-A-00219
0653	
0614	E4-C-00069
0619	E4-C-00172
0669	
0635	
0638	
0637	E4-A-06022
0608	
	F4 A 00500
	E4-A-00509
	E4-C-06014
	14-0-00014
	E4-A-06016
	1
0795	E4-A-05097
0658	
0611	
0602	E4-C-06013
0582	
	0512 0550 0562 0563 06001 0553 0553 0553 0553 0553 0553 0553 0553 0553 0553 0553 0553 0553 0553 0553 0553 0554 0553 0554 0553 0554 0553 0662 0593 06561 0593 06562 0593 06563 0593 0657 0594 0593 0657 0593 0593 0593 06583 0593 0653 0653 0633 06342 06353 06354 </td

High Pressure Pump S/N	Gear S/N	Engine S/N	H
20-08-21-02-00718	1303	E4P-C-06034	21
20-08-21-02-00719	0799	241 0 00034	21-
20-08-21-02-00720	0818		21-
20-08-21-02-00721	1314	E4-C-06052	21-
20-08-21-02-00722	0735		21-
20-08-21-02-00723	0808		21-
20-08-21-02-00724	0757		21-
20-08-21-02-00725	0574	E4P-C-00051	21-
20-08-21-02-00726	0709		21-
20-09-02-02-00424	0657		21-
20-09-02-02-00425	0774		21-
20-09-02-02-00426	0776		21-
20-09-02-02-00427	0787	E4-A-06029	21-
20-09-02-02-00428	0590		21-
20-09-02-02-00429	0620	E4-A-06023	21-
20-09-02-02-00430	0640	E4-B-00297	21-
20-09-02-02-00431	0578	E4-A-00046	21-
20-09-02-02-00433	0823		21-
20-09-02-02-00434 20-09-02-02-00435	0764		21-
20-09-02-02-00435	0817	E4 C 06011	21-
20-09-02-02-00436	0604 0665	E4-C-06011	21-
20-09-02-02-00437	0648	E4-A-06028	21-
20-09-02-02-00439	1980	L4 A 00020	21-
20-09-02-02-00440	0616		21-
20-09-02-02-00441	0786		21-
20-09-02-02-00442	0573		21-
20-09-02-02-00443	0838		21-
20-09-02-02-00444	0855		21-
20-09-02-02-00445	0545	E4-B-00433	21-
20-09-02-02-00446	0628		21-
20-09-02-02-00447	0615	E4-B-00417	21-
20-09-02-02-00448	0662	E4-A-06026	21-
20-09-02-02-00449	0591	E4-C-00092	21-
20-09-02-02-00450	0772		21-
20-09-02-02-00451	0804		21-
20-09-02-02-00452	0626	E4-A-06019	21-
20-09-02-02-00453	0740		21-
20-09-02-02-00454	0742	F4 A 06018	21-
20-09-02-02-00455 20-09-02-02-00456	0554 0694	E4-A-06018	21-
20-09-02-02-00457	0694	E4-A-00111	21-
20-09-02-02-00458	0763	L4-A-00111	21-
20-09-02-02-00459	0579	E4-C-06009	21-
20-09-02-02-00460	0791	21000000	21-
20-09-02-02-00461	0765		21-
20-09-02-02-00462	0606	E4-C-06012	21-
20-09-02-02-00463	0607	E4-A-06020	21-
20-09-02-02-00464	0627		21-
20-09-02-02-00465	0746		21-
20-09-02-02-00466	0775	E4-A-00484	21-
20-09-02-02-00467	0767		21-
20-09-02-02-00468	0623	E4-C-00171	21-
20-09-02-02-00469	0621	E4-A-06027	21-
20-09-02-02-00470	0597		21-
20-09-02-02-00471 20-09-02-02-00472	0603	E4-A-00106	21-
20-09-02-02-00472	0646 0633	24-A-00100	21-
20-09-02-02-00473	0613		21-
20-09-02-02-00475	0678	E4-A-00107	21-
20-09-02-02-00476	0745	2	21-
20-09-02-02-00477	0753		21-
20-09-02-02-00478	0800		21-
20-09-02-02-00479	0630		21-
20-09-02-02-00480	0847		21-

High Pressure	Gear	Engine
Pump S/N 21 04 08 02 00618	S/N 1607	S/N
21-04-08-02-00619	1807	
21-04-08-02-00620	1613	
21-04-08-02-00621	1612	
21-04-08-02-00622	1616	
21-04-08-02-00623	1767	
21-04-08-02-00624	1723	
21-04-08-02-00625	1721	
21-04-08-02-00626	1598	
21-04-08-02-00627	1625	
21-04-08-02-00628	1639	
21-04-08-02-00629	1729	
21-04-08-02-00630	1615	
21-04-08-02-00631	1667	
21-04-08-02-00632	1825	
21-04-08-02-00633	1583	
21-04-08-02-00634	1645	
21-04-08-02-00635	1594	
21-04-08-02-00636	1716	
21-04-08-02-00637	1628	
21-04-08-02-00638	1646	
21-04-08-02-00639	1584	
21-04-08-02-00640	1689	
21-04-08-02-00641	1596	
21-04-08-02-00644	1703	
21-04-08-02-00645	1630	
21-04-08-02-00646		
	1674	
21-04-08-02-00647	1680	
21-04-08-02-00648	1746	
21-04-08-02-00649	1623	
21-04-08-02-00650	1749	
21-04-08-02-00652	1727	
21-04-08-02-00653	1740	
21-04-08-02-00654	1609	
21-04-08-02-00655	1720	
21-04-08-02-00656	1624	
21-04-08-02-00657	1608	
21-04-08-02-00658	1675	
21-04-08-02-00659	1676	
21-04-08-02-00660	1604	
21-04-08-02-00661	1641	
21-04-08-02-00662	1759	
21-04-08-02-00663	1683	
21-04-08-02-00664	1670	
21-04-08-02-00665	1648	
21-04-08-02-00065	1606	
21-04-08-02-00667	1622	
21-04-08-02-00668	1696	
21-04-08-02-00668		
	1650	
21-04-08-02-00670	1621	
21-04-08-02-00671	1642	
21-04-08-02-00672	1636	
21-04-08-02-00673	1654	
21-04-08-02-00674	1669	
21-04-08-02-00675	1753	
21-04-08-02-00676	1686	
21-04-08-02-00677	1859	
21-04-08-02-00678	1634	
21-04-08-02-00679	1698	
21-04-08-02-00680	1718	
21-04-08-02-00681	1619	
21-04-08-02-00682	1652	
21-04-08-02-00683	1687	
21-04-00-02-00005		
21-04-08-02-00684	1708	

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Rev. No.

Revision Date



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High Pressure			High Pressure
Pump S/N	S/N	S/N	Pump S/N
20-03-31-02-00269	0675	E4-C-06015	20-09-02-02-00481
20-03-31-02-00270	0583		20-09-02-02-00482
20-03-31-02-00271	0773		20-09-02-02-00483
			-
20-03-31-02-00272	0819		20-09-02-02-00484
20-03-31-02-00273	0643		20-09-02-02-00485
20-03-31-02-00274	0777		20-09-02-02-00486
20-03-31-02-00275	0577		20-09-02-02-00487
20-03-31-02-00276	0816		20-09-02-02-00488
20-03-31-02-00277	0728		20-09-02-02-00489
20-03-31-02-00278	0685	E4-C-00480	20-09-02-02-00490
20-03-31-02-00279	0831	24 0 00400	20-09-02-02-00491
20-03-31-02-00280	0794		20-09-02-02-00492
20-03-31-02-00281	0811		20-09-02-02-00493
20-03-31-02-00282	0845		20-09-02-02-00494
20-03-31-02-00283	0731		20-09-02-02-00495
20-03-31-02-00284	0771		20-09-02-02-00496
20-03-31-02-00285	0707		20-09-02-02-00497
20-03-31-02-00286	0727		20-09-02-02-00498
20-03-31-02-00287	0790		20-09-02-02-00499
20-03-31-02-00288	0853		20-10-19-02-00442
20-03-31-02-00289	0696	E4-A-05094	20-10-19-02-00443
20-03-31-02-00290	0778		20-10-19-02-00444
20-03-31-02-00291	0760		20-10-19-02-00445
20-03-31-02-00292	0846		20-10-19-02-00446
20-03-31-02-00293	0770	E4-A-00028	20-10-19-02-00447
		L4-A-00028	-
20-03-31-02-00294	0751		20-10-19-02-00448
20-03-31-02-00295	0761		20-10-19-02-00449
20-03-31-02-00296	0759		20-10-19-02-00450
20-03-31-02-00297	0755		20-10-19-02-00452
20-03-31-02-00298	0725		20-10-19-02-00453
20-03-31-02-00299	0812		20-10-19-02-00454
20-03-31-02-00300	0797		20-10-19-02-00455
20-03-31-02-00301	0851		20-10-19-02-00456
20-03-31-02-00302	0737		20-10-19-02-00457
20-03-31-02-00303	0828		20-10-19-02-00458
20-03-31-02-00304	0705		20-10-19-02-00459
20-03-31-02-00305	0739		20-10-19-02-00460
20-03-31-02-00306	0842		20-10-19-02-00461
20-03-31-02-00307	0822	E4-B-00173	20-10-19-02-00462
20-03-31-02-00308	0780		20-10-19-02-00463
20-03-31-02-00309	0781		20-10-19-02-00464
20-03-31-02-00310	0796		20-10-19-02-00465
20-03-31-02-00311	0801		20-10-19-02-00466
20-03-31-02-00312	0708		20-10-19-02-00467
			-
20-03-31-02-00313	0826		20-10-19-02-00468
20-03-31-02-00314	0726		20-10-19-02-00469
20-03-31-02-00315	0700		20-10-19-02-00470
20-03-31-02-00316	0749		20-10-19-02-00471
20-05-14-02-00002	0922		20-10-19-02-00472
20-05-14-02-00003	0875		20-10-19-02-00473
20-05-14-02-00004	0935		20-10-19-02-00474
20-05-14-02-00005	0879	E4-A-06043	20-10-19-02-00475
20-05-14-02-00006		E4P-C-06016	20-10-19-02-00477
	0905	E4P-C-00010	
20-05-14-02-00007	0934		20-10-19-02-00478
20-05-14-02-00008	0933		20-10-19-02-00479
20-05-14-02-00009	0965		20-10-19-02-00480
20-05-14-02-00010	0884	E4-A-06045	20-10-19-02-00481
20-05-14-02-00011	0908	E4-A-00239	20-10-19-02-00482
20-05-14-02-00012	0949	E4-C-06022	20-10-19-02-00485
20-05-14-02-00013	0954	E4-A-06037	20-10-19-02-00486
20-05-14-02-00014	0928	E4P-C-06015	20-10-19-02-00487
20-05-14-02-00015	0962		20-10-19-02-00488
20-05-14-02-00016	0955		20-10-19-02-00489
20-05-14-02-00017	0959		20-10-19-02-00490
20-05-14-02-00018	0932		20-10-19-02-00491
Eirot la		to	Doy No
	sue Da		Rev. No.

High Pressure	Gear	Engine	High Pr
Pump S/N	S/N	S/N	Pump
20-09-02-02-00481	0809		21-04-08-
20-09-02-02-00482	0785		21-04-08-
20-09-02-02-00483	0835		21-04-08-
20-09-02-02-00484	0652	E4-C-06008	21-04-08-
20-09-02-02-00485	0667		21-04-08-
20-09-02-02-00486	0670		21-04-08-
20-09-02-02-00487	0706		21-04-08-
20-09-02-02-00488	0650		21-04-08-
20-09-02-02-00489	0768		21-04-08-
20-09-02-02-00490	0680		21-04-08-
20-09-02-02-00491	0673		21-04-08-
20-09-02-02-00492	0589	E4-C-06010	21-04-08-
20-09-02-02-00493	0829		21-04-08-
20-09-02-02-00494	0807		21-04-08-
20-09-02-02-00495	0784		21-04-08-
20-09-02-02-00496	0629		21-04-08-
20-09-02-02-00497	0754	E4 A 001CC	21-04-08-
20-09-02-02-00498	0682	E4-A-00166	21-04-08-
20-09-02-02-00499	0782		21-04-08- 21-04-08-
20-10-19-02-00442 20-10-19-02-00443	1853 1814		21-04-08-
20-10-19-02-00444	1814		21-04-08-
20-10-19-02-00444	1878		21-04-08-
20-10-19-02-00446	1872		21-04-08-
20-10-19-02-00447	1918		21-04-08-
20-10-19-02-00448	1780		21-04-08-
20-10-19-02-00449	1815		21-04-08-
20-10-19-02-00450	1787		21-04-08-
20-10-19-02-00452	1793		21-04-08-
20-10-19-02-00453	1889		21-04-08-
20-10-19-02-00454	1854		21-04-08-
20-10-19-02-00455	1792		21-04-08-
20-10-19-02-00456	1809		21-04-08-
20-10-19-02-00457	1796		21-04-08-
20-10-19-02-00458	1778		21-04-08-
20-10-19-02-00459	1827		21-04-08-
20-10-19-02-00460	1926		21-04-08-
20-10-19-02-00461	1979		21-04-08-
20-10-19-02-00462	1777		21-04-08-
20-10-19-02-00463	0919		21-04-08-
20-10-19-02-00464	0940	E4-A-00038	21-04-08-
20-10-19-02-00465	1805		21-04-08-
20-10-19-02-00466	1981		21-04-08-
20-10-19-02-00467	1975		21-04-08-
20-10-19-02-00468	1786		21-04-08-
20-10-19-02-00469	1819		21-04-08-
20-10-19-02-00470	1869		21-04-08-
20-10-19-02-00471	1866	E 4 D C 0 C 0 2 2	21-04-08-
20-10-19-02-00472	1293	E4P-C-06032	21-04-08-
20-10-19-02-00473 20-10-19-02-00474	1308	E4-A-06054	21-04-08-
20-10-19-02-00474 20-10-19-02-00475	1199 1800		21-04-08- 21-05-10-
20-10-19-02-00473	1915		21-05-10-
20-10-19-02-00477	1915		21-05-10-
20-10-19-02-00478	1863		21-05-10-
20-10-19-02-00479 20-10-19-02-00480	1782		21-05-10-
20-10-19-02-00480	1860		21-05-10-
20-10-19-02-00481	1939		21-05-10-
20-10-19-02-00485	1808		21-05-10-
20-10-19-02-00486	1798		21-05-10-
20-10-19-02-00487	0881		21-05-10-
20-10-19-02-00488	1774		21-05-10-
20-10-19-02-00489	1943		21-05-10-
20-10-19-02-00490	1995		21-05-10-
20-10-19-02-00491	1884		21-05-10-
1			

Revision Date

High Pressure	Gear	Engine
Pump S/N	S/N	S/N
21-04-08-02-00686	1803	
21-04-08-02-00687	1693	
21-04-08-02-00688	1704	
21-04-08-02-00689	1750	
21-04-08-02-00690	1651	
21-04-08-02-00691	1865	
21-04-08-02-00692	1802	
21-04-08-02-00693	1856	
21-04-08-02-00694	1643	
21-04-08-02-00695	1644	
21-04-08-02-00696	1710	
21-04-08-02-00697	1620	
21-04-08-02-00698	1715	
21-04-08-02-00699	1673	
21-04-08-02-00700	1601	
21-04-08-02-00701	1758	
21-04-08-02-00702	1679	
21-04-08-02-00703	1877	
21-04-08-02-00704	1668	
21-04-08-02-00705	1739	
21-04-08-02-00706	1886	
21-04-08-02-00707	1868	
21-04-08-02-00708	1632	
21-04-08-02-00709	1627	
21-04-08-02-00710	1754	
21-04-08-02-00711	1660	
21-04-08-02-00712	1705	
21-04-08-02-00712	1631	
21-04-08-02-00714	1857	
21-04-08-02-00715	1685	
21-04-08-02-00716	1653	
21-04-08-02-00717	1677	
21-04-08-02-00718	1760	
21-04-08-02-00719	1678	
21-04-08-02-00720	1862	
21-04-08-02-00721	1695	
21-04-08-02-00722	1908	
21-04-08-02-00723	1911	
21-04-08-02-00724	1794	
21-04-08-02-00725	1684	
21-04-08-02-00726	1633	
21-04-08-02-00727	1784	
21-04-08-02-00728	1883	
21-04-08-02-00728	1885	
21-04-08-02-00729	1871	
21-04-08-02-00731	1783	
21-04-08-02-00732	1768	
21-04-08-02-00733	1682	
21-04-08-02-00734	1776	
21-04-08-02-00735	1788	
21-04-08-02-00736	1655	
21-05-10-02-00002	1711	
21-05-10-02-00003	1876	
21-05-10-02-00004	1712	
21-05-10-02-00006	1719	
21-05-10-02-00008	1761	
21-05-10-02-00012	1663	
21-05-10-02-00013	1893	
21-05-10-02-00015	1833	
21-05-10-02-00018	1900	
21-05-10-02-00018		
	1662	
21-05-10-02-00020	1894	
21-05-10-02-00021	1842	
21-05-10-02-00023	1836	
21-05-10-02-00024	1896	

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Nov.



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

High Pressure Pump S/N	Gear S/N	Engine S/N	Hi
20-05-14-02-00019	0906	E4-C-06025	20-1
20-05-14-02-00020	0972		20-1
20-05-14-02-00021	0874	E4-B-00434	20-1
20-05-14-02-00022	0920	E4-A-06040	20-1
20-05-14-02-00023	0938	E4P-C-06021	20-1
20-05-14-02-00024	0899		20-1
20-05-14-02-00025 20-05-14-02-00026	0988 0903		20-1 20-1
20-05-14-02-00020	0957		20-1
20-05-14-02-00028	0876		20-1
20-05-14-02-00029	0978	E4-A-06042	20-1
20-05-14-02-00030	1005		20-1
20-05-14-02-00031	0951		20-1
20-05-14-02-00032	0969	E4-C-06023	20-1
20-05-14-02-00033	0961	E4-C-06028	20-1
20-05-14-02-00034 20-05-14-02-00035	0950	F4 C 00212	20-1
20-05-14-02-00033	0909 0921	E4-C-00312 E4-C-06021	20-1 20-1
20-05-14-02-00037	0897	24-6-00021	20-1
20-05-14-02-00038	0943	E4-A-00142	20-1
20-05-14-02-00039	0882	E4-C-06020	20-1
20-05-14-02-00040	0902	E4-A-06044	20-1
20-05-14-02-00041	0870	E4-C-06026	20-1
20-05-14-02-00042	0982		20-1
20-05-14-02-00043	0953	E4-A-06038	20-1
20-05-14-02-00044	0996		20-1
20-05-14-02-00045	0924	F4 A 002E0	20-1
20-05-14-02-00046 20-05-14-02-00047	0936 0923	E4-A-00350	20-1 20-1
20-05-14-02-00047	0923	E4P-C-06022	20-1
20-05-14-02-00049	0892	E4-A-00200	20-1
20-05-14-02-00050	0887	E4-A-06039	20-1
20-05-14-02-00051	0973		20-1
20-05-14-02-00052	1009		20-1
20-05-14-02-00053	0956	E4-B-00049	20-1
20-05-14-02-00054	0976	54.0.0007	20-1
20-05-14-02-00055	0964	E4-C-06027	20-1
20-05-14-02-00056 20-05-14-02-00057	1068 0992		20-1 20-1
20-05-14-02-00058	0900	E4-B-00196	20-1
20-05-14-02-00059	0991		20-1
20-05-14-02-00060	1025		20-1
20-05-14-02-00061	1063		20-1
20-05-14-02-00062	0987		20-1
20-05-14-02-00063	0994		20-1
20-05-14-02-00064	0947		20-1
20-05-14-02-00065	1054		20-1
20-05-14-02-00066 20-05-14-02-00067	1111 0997		20-1 20-1
20-05-14-02-00067	1057	E4-A-06048	20-1
20-05-14-02-00069	0984		20-1
20-05-14-02-00070	1055		20-1
20-05-14-02-00071	0981		20-1
20-05-14-02-00072	0980		20-1
20-05-14-02-00073	0977	E4-A-06049	20-1
20-05-14-02-00074	0993		20-1
20-05-14-02-00075	0986		20-1
20-05-14-02-00076	1007		20-1
20-05-14-02-00077 20-05-14-02-00078	0963		20-1 20-1
	0983 1003		20-1
2(1-(15-1)(1-(1)-(1)(1))/(1-(1)))	1003		20-1
20-05-14-02-00079 20-05-14-02-00080			
20-05-14-02-00079 20-05-14-02-00080 20-05-14-02-00081	0989		20-1
20-05-14-02-00080			20-1 20-1

High Pressure Pump S/N	Gear S/N	Engine S/N	
20-10-19-02-00492	0883	E4-A-00019	
20-10-19-02-00493	0886	E4-A-06032	
20-10-19-02-00494	0888		
20-10-19-02-00495	0865	E4-A-05096	
20-10-19-02-00496	0926		
20-10-19-02-00497	0702	E4-A-05095	
20-10-19-02-00498	1948		
20-10-19-02-00499	0916	E4-A-06034	
20-10-19-02-00500	0915	E4-A-00434	
20-10-19-02-00501	0880	E4P-C-06009	
20-10-19-02-00502	0701		
20-10-19-02-00503 20-10-19-02-00504	0872	E4 C 06017	
20-10-19-02-00505	0896 1789	E4-C-06017	
20-10-19-02-00505	0894	E4P-C-06014	
20-10-19-02-00507	0925	E4P-C-06013	
20-10-19-02-00508	0907	E4-C-06016	
20-10-19-02-00510	0939	E4-B-00109	
20-10-19-02-00511	1933		
20-10-19-02-00512	0868		
20-10-19-02-00513	0866	E4-A-06033	
20-10-19-02-00514	0945		
20-10-19-02-00515	0901	E4-A-06035	
20-10-19-02-00516	0857	E4-A-00429	
20-10-19-02-00517	0937	54.0.00007	
20-10-19-02-00518 20-10-19-02-00519	0871	E4-C-00087	
20-10-19-02-00519	0859 0944	E4P-C-05014	
20-10-19-02-00521 20-10-19-02-00522	0944	E4F-C-05014	
20-10-19-02-00522	0893		
20-10-19-02-00524	0869	E4-C-06019	
20-10-19-02-00525	0890		
20-10-19-02-00526	0806		
20-10-19-02-00527	0850		
20-10-19-02-00528	1315	E4-C-06053	
20-10-19-02-00529	0863		
20-10-19-02-00530	0914		
20-10-19-02-00531	1301	E4 A 06075	
20-10-19-02-00532	0931	E4-A-00215	
20-10-19-02-00533	0758 0858	E4P-Z-06001	
20-10-19-02-00534 20-10-19-02-00535	0730	E4-C-00125 E4-A-05093	
20-10-19-02-00535	0941	L4-A-03093	
20-10-19-02-00537	0843		
20-10-19-02-00538	0837		
20-10-19-02-00539	1274	E4-C-00199	
20-10-19-02-00540	1236	E4-A-00075	
20-10-19-02-00541	1278	E4P-C-06033	
20-10-19-02-00542	0798		
20-10-19-02-00544	1292	E4P-C-06040	
20-10-19-02-00545	1260	E4-A-00279	
20-10-19-02-00546	1269		
20-10-19-02-00547	1273		
20-10-19-02-00548	1214 1288	E4-A-06067	
20-10-19-02-00549 20-10-19-02-00550	1288	E4-A-06067 E4-A-06073	
20-10-19-02-00550 20-10-19-02-00551	1270	E4-C-06049	
20-10-19-02-00551	1245	2.00045	
20-10-19-02-00553	1229	E4-C-06062	
20-10-19-02-00554	1256		
20-10-19-02-00555	1282		
20-10-19-02-00556	1246		
20-10-19-02-00558	1220		
20-10-19-02-00559	1207	E4-A-00513	
20-10-19-02-00560	1286	E4-C-06050	

Rev. No.

Engine	High Pressure	Gear	Engine
S/N 4-A-00019	Pump S/N 21-05-10-02-00025	S/N 1905	S/N
4-A-00019 4-A-06032	21-05-10-02-00025	1905	
+	21-05-10-02-00026	1897	
4-A-05096	21-05-10-02-00031	1795	
	21-05-10-02-00034	1912	
1-A-05095	21-05-10-02-00043	1763	
	21-05-10-02-00047	1831	
I-A-06034	21-05-10-02-00048	1733	
I-A-00434	21-05-10-02-00050	1744	
P-C-06009	21-05-10-02-00052	1635	
	21-05-10-02-00053	1910	
	21-05-10-02-00054	1891	
-C-06017	21-05-10-02-00056	1709	
	21-05-10-02-00057	1824	
P-C-06014	21-05-10-02-00058	1770	
P-C-06013	21-05-10-02-00059	1755	
-C-06016	21-05-10-02-00060	1681	
-B-00109	21-05-10-02-00062	1747	
	21-05-10-02-00063	1843	
	21-05-10-02-00064	1731	
-A-06033	21-05-10-02-00065	1844	
	21-05-10-02-00067	1771	
-A-06035	21-05-10-02-00068	1812	
-A-00035	21-05-10-02-00069	1902	
	21-05-10-02-00072	1821	
-C-00087	21-05-10-02-00073	1839	
00007	21-05-10-02-00074	1870	
P-C-05014	21-05-10-02-00075	1895	
1 0 05014	21-05-10-02-00076	1882	
	21-05-10-02-00077	1879	
-C-06019	21-05-10-02-00078	1848	
00015	21-05-10-02-00079	1717	
	21-05-10-02-00080	1874	
	21-05-10-02-00081	1790	
-C-06053	21-05-10-02-00082	1835	
r C 00055	21-05-10-02-00083	1909	
	21-05-10-02-00084	1765	
A 06075	21-05-10-02-00085	1834	
-A-00215	21-05-10-02-00086	1847	
P-Z-06001	21-05-10-02-00087	1626	
-C-00125	21-05-10-02-00088	1913	
-A-05093	21-05-10-02-00090	1888	
A 05055	21-05-10-02-00091	1691	
	21-05-10-02-00091	1917	
	21-05-10-02-00092	1690	
-C-00199	21-05-10-02-00093	1849	
-A-00075	21-05-10-02-00094	1914	
P-C-06033	21-05-10-02-00095	1914	
P-C-06040	21-05-10-02-00097 21-05-10-02-00098	1820 1838	
-A-00279	21-05-10-02-00098	1838	
-A-002/9	21-05-10-02-00099		
	21-05-10-02-00100	1801	
	21-05-10-02-00101	1851	
-4-06067		1688	
-A-06067	21-05-10-02-00103	1735	
-A-06073	21-05-10-02-00104	1885	
-C-06049	21-05-10-02-00105	1899	
-C-06062	21-05-10-02-00106	1858	
	21-05-10-02-00107 21-05-10-02-00108	1736	
-C-06062	1 / 1-05-10-07-00108	1772	
-C-08082		1704	
	21-05-10-02-00109	1764	
	21-05-10-02-00109 21-05-10-02-00110	1867	
	21-05-10-02-00109 21-05-10-02-00110 21-05-10-02-00111	1867 1855	
I-A-00513	21-05-10-02-00109 21-05-10-02-00110 21-05-10-02-00111 21-05-10-02-00112	1867 1855 1734	
	21-05-10-02-00109 21-05-10-02-00110 21-05-10-02-00111	1867 1855	

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

High Pressure	Gear	Engine	High Pressure	Gear	Engine	High Pressure	Gear	Engine
Pump S/N	S/N	S/N	Pump S/N	S/N	S/N	Pump S/N	S/N	S/N
20-05-14-02-00084	0995		20-10-19-02-00561	1228		21-05-10-02-00114	1852	
20-05-14-02-00085	0960		20-10-19-02-00562	1401		21 05 10 02 00115	1832	
20-05-15-02-00420	0548		20-10-19-02-00563	1298	E4-A-06055	21-05-10-02-00116	1898	
20-05-15-02-00421	1010		20-10-19-02-00564	1334	E4P-C-06046	21-05-10-02-00117	1901	
20-05-15-02-00422	0975		20-10-19-02-00565	1201	E4-C-06061	21-05-10-02-00118	1659	
20-05-15-02-00423	0990		20-10-19-02-00566	1237	E4P-C-06030	21-05-10-02-00119	1864	
20-05-15-02-00424	0999		20-10-19-02-00567	1234		21-05-10-02-00120	1919	
20-05-15-02-00425	0970		20-10-19-02-00568	1190		21-05-10-02-00121	1730	
20-05-15-02-00426	1008		20-10-19-02-00569	1285	E4-A-06051	21-05-10-02-00122	1732	
20-05-15-02-00430	0967		20-10-19-02-00570	1230		21-05-10-02-00123	1741	
20-05-15-02-00432	0968		20-10-19-02-00571	1202		21-05-10-02-00124	1861	
20-06-18-02-00879	1076		20-10-19-02-00572	1205	E4P-C-06042	21-05-10-02-00125	1916	
20-06-18-02-00880	0813		20-10-19-02-00573	1204	E4-A-00441	21-05-10-02-00126	1845	
20-06-18-02-00881	1014	E4P-C-06023	20-10-19-02-00574	1194		21-05-10-02-00127	1766	
20-06-18-02-00882	1078	E4P-C-06024	20-10-19-02-00575	1206		21-05-10-02-00129	1738	
20-06-18-02-00883	1092	E4P-C-06025	20-10-26-02-00622	1791		21-05-10-02-00130	1714	
20-06-18-02-00884	1090		20-10-26-02-00623	1959		21-05-10-02-00131	1737	
20-06-18-02-00885	1019	E4-C-06034	20-10-26-02-00624	1806		21-05-10-02-00132	1904	
20-06-18-02-00886	1091	E4-B-00383	20-10-26-02-00625	1797		21-05-10-02-00133	1745	
20-06-18-02-00887	1077		20-10-26-02-00626	1934		21-05-10-02-00134	1920	
20-06-18-02-00888	0639		20-10-26-02-00627	1210		21-05-10-02-00135	1873	



A Cylinder Head p/n E4A-12-500-000 is an Affected Cylinder Head <u>only when</u> <u>installed in combination</u> with a HPP gear p/n E4A-30-000-601 (any revision) or p/n E4A-30-000-201 rev. AB.1. In case of doubt, contact Austro Engine.

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1.5. Reason

Occurrences were reported of HPP driving gear failure. Subsequent investigation determined that a certain batch of HPP driving gears was produced with a worn-out assembly tool P/N AE300T012-1. Those HPP driving gears may have been damaged during assembly.

Concurrently, it was determined that, for engines equipped with a certain cylinder head, a stack up of tolerances exists between the cylinder head, cylinder head cover, camshaft gear and HPP gear. Cases of coloured HPP gears p/n E4A-30-000-601 or E4A-30-000-201 rev. AB.1 appeared after limited flight time on engines having CH p/n E4A-12-500-000 installed, for that reason an insufficient tolerance can only be avoided by installing, on such engines, gears p/n E4A-30-000-201 rev. AE.1. To correct the possible unsafe condition, this Mandatory Service Bulletin supersedes the MSB-E4-034 and MSB-E4-035 incorporating their requirements and prohibit the installation of HPP gears p/n E4A-30-000-601 or E4A-30-000-201 rev. AB.1 on an engine equipped with the CH p/n E4A-12-500-000. These conditions, if not corrected, may cause premature failure of the high-pressure pump drive gear, resulting in rail pressure loss and engine shutdown.

1.6. Required Actions and Time of Compliance

E4A/B/C/P Engines	Inspect and Replace the gear	Before the next flight ⁽²⁾
having an affected CH installed	with p/n E4A-30-000-201 rev. AE.1	
E4A/B/C/P Engines	Inspect and Replace the gear	Before the next flight ⁽²⁾
having an affected CH and an	with p/n E4A-30-000-201 rev. AE.1	
affected HPP driving gear installed		

E4A Engines having an affected HPP driving gear installed	Replace the gear	Before the total time in service of the affected driving gear reaches 40 FH ⁽¹⁾ or during the next scheduled maintenance whichever occurs first
E4B/C/P Engines having an affected HPP driving gear installed	Replace the gear	Before the total time in service of the affected driving gear reaches 80 FH ⁽¹⁾ or during the next scheduled maintenance whichever occurs first



Note (1):

Note⁽²⁾:

Total time in service of the affected driving gear must be counted from the installation of such part on an engine. For example, if an affected part is installed on an E4A Engine having 480FH, the HPP driving gear must be replaced before reaching 520FH; if an affected part is installed on an E4B/C/P engine having 480FH, the HPP driving gear must be replaced before reaching 560FH.

For a twin-engine aeroplane that has one or two Group 2 engine(s) installed, a single ferry flight is allowed to position that aeroplane to a location where the actions required by this Service Bulletin can be accomplished on the affected engine(s).

Note:

Paragraph 1.9 provides Credits for these engines complying with MSB-E4-034 and MSB-E4-035

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1.7. Concurrent documents / references

Note: If not specified, the latest revision of the referenced documents applies.

- Maintenance Manual E4.08.04
- Service Instruction SI-E4-016
- Mandatory Service Bulletin MSB-E4-034 rev. 1 or subsequent approved revisions
- Mandatory Service Bulletin MSB-E4-035 rev. 0 or subsequent approved revisions

1.8. Other publications affected

None

1.9. Credits

For those engines having an affected HPP driving gear installed:

• Replacement of an affected HPP driving gear, accomplished before the effective date of this Mandatory Service Bulletin and in accordance with the instructions of Austro Engine MSB-E4-034 at Revision 1 or subsequent, is an acceptable method to comply with the requirements of the chapter 2 of this service bulletin.

For those engines having an affected CH installed, or an affected CH <u>and</u> an affected HPP driving gear installed:

• Inspection and replacement of an affected HPP driving gear, accomplished before the effective date of this Mandatory Service Bulletin and in accordance with the instructions of Austro Engine MSB-E4-034 at Revision 3 or subsequent, is an acceptable method to comply with the requirements of the chapter 2 of this service bulletin provided the installed HPP driving gear is the p/n E4A-30-000-201 rev. AE.1

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2. <u>Technical Details</u>

2.1. Removal and inspection of the HPP driving gear

- 1. Remove the HPP in accordance with the instructions in Maintenance Manual, Doc. No. E4.08.04, Section 73-10-03, Paragraph A.
- 2. Remove the drive gear from the HPP in accordance with the instructions in Maintenance Manual, Doc. No. E4.08.04, Section 73-10-03, Paragraph C.



Caution: Use only the tool p/n AE300T012-1 provided in the kit of this Service Bulletin to block the gear.

- 3. To remove the gear from the shaft, use a bearing extractor shown in Chapter 0
- 4. Clean the driving gear with non-chlorinated brake cleaner (recommended product Manufacturer: Förch, Product ID.: R510)
- 5. Visually inspect the driving gear against colour criteria of <u>Appendix II</u> Table 6; if the acceptable criteria are not met:
 - $\circ~$ remove the camshafts according to the Maintenance Manual, Doc. No. E4.08.04, Section 85-30-00 Subparagraph 4A (a) (h)
 - Inspect the HPP shaft, the cylinder head, camshaft gear, the inlet/outlet camshaft bushing in accordance with the <u>Appendix II</u> of this service bulletin and replace the parts as necessary.

2.2. Installation of the new HPP driving gear

2.2.1 Driving Gear p/n E4A-30-000-201 rev. AB1 or p/n E4A-30-000-601

CAUTION	Caution:	<u>DO NOT INSTALL</u> the gear p/n E4A-30-000-201 rev. AB1 or E4A-30-000-601 if a Cylinder Head p/n E4A-12-500-000 is installed on the engine	
---------	----------	---	--

1. Install the new drive gear in accordance with the instructions in Maintenance Manual, Doc. No. E4.08.04, Section 73-10-03, Paragraph D (replace the nut, if required).

	Note:	Lubricate the gear and the O-ring with engine oil before installing the HPP	
CAUTION	Caution:	Use only the tool p/n AE300T012-1 provided in the kit of this Service Bulletin to block the gear	

- 2. Install the HPP in accordance with the instructions in Maintenance Manual, Doc. No. E4.08.04, Section 73-10-03, Paragraph B. Refer also to chapter 6 Table 2 for the tightening sequence of the screws.
- 3. Mark a tool cycle on the Tool Cycle Recording Sheet and fill the execution report (both included in the chapter 6 of this Service Bulletin).
- 4. Perform an engine ground run according to the EMM

	Note:	One cyo gear	ne cycle equals the disassembly of the old gear and the installation of the new ear							
CAUTION	Caution: When the assembly tool p/n AE300T012-1 has reached 100 cycles, discard th tool					he				
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2.2.2 Driving gear p/n E4A-30-000-201 Rev. AE.1 or subsequent

1. Install the new drive gear in accordance with the instructions in Maintenance Manual, Doc. No. E4.08.04, Section 73-10-03, Paragraph D (replace the nut, if required).

16 -	Note:	Use a standard low-profile open-ended wrench (27 mm) instead of the special tool.
	Note:	Lubricate the gear and the O-ring with engine oil before installing the HPP

- 2. Install the HPP in accordance with the instructions in Maintenance Manual, Doc. No. E4.08.04, Section 73-10-03, Paragraph B. Refer also to chapter 6 Table 2 for the tightening sequence of the screws.
- 3. Perform an Engine Ground Run according to the Engine Maintenance Manual

2.3. Illustrations

Provided as appendix to this service bulletin

2.4. Mass (weight)

Not affected

2.5. Approval statement

The technical content of this document is approved under the authority of the DOA ref. EASA. 21J.399.

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3. <u>Planning Information</u>

3.1. Material & Availability

Quantity	Part Description	Part Number				
		E4A-30-000-601 ⁽¹⁾ <u>or</u>				
1	HPP Drive Gear	E4A-30-000-201 Rev. AB.1 ⁽¹⁾ <u>or</u>				
		E4A-30-000-201 Rev. AE.1				
1	Gasket	DIN7603-12x16x2.0				
1	Gasket	DIN7603-A12x16-AL				
1	Holder wrench HPP	AE300T012-1				

CAUTION	⁽¹⁾ Caution:	DO NOT INSTALL the gear p/n E4A-30-000-201 rev. AB1 or E4A-30-000-601 if a Cylinder Head p/n E4A-12-500-000 is installed on the engine
CAUTION	Caution:	The holder wrench HPP p/n AE300T012-1 can be used for only for 100 cycles, after that the tool is not serviceable and must be scraped.
	Note:	One cycle equals the disassembly of the old gear and the installation of the new gear



Figure 1 – Driving gear E4A-30-000-201 Rev. AE.1

3.2. Special tools

No.	Description	Note		
1	Holder wrench This special tool is provided as part of this SB and it is limite			
_	HPP	cycles		
2	Bearing extractor	Refer to Figure 2 (not part of the service bulletin kit)		



Figure 2 – Bearing extractor

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3.3. Labor effort

2 Hours for an acceptable gear up to 16 hours for a non-acceptable gear that requires additional inspections and/or parts replacement. The exact time depends on the components that might require replacement and do not include the waiting time between correspondence.

4. <u>Remarks</u>

NOTE:

- All measures must be carried out by a certified engine station and certified engine mechanics
- The accomplishment of the instructions shown under chapter 2 must be confirmed in the respective engine log book
- The accomplishment of the instructions must be carried out within the time of compliance according chapter 1.6
- 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)

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5. Explanatory notes

5.1. Symbol explanation

	<u>WARNING</u> :	Disregarding these safety rules can cause personal injury or even death
CAUTION	<u>CAUTION:</u>	Disregarding these special instructions and safety measures can cause damage to the engine or other components
	<u>NOTE:</u>	Additional note or instruction for better understanding of an instruction

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6. <u>Appendix I</u>

Table 2 – HPP tightening sequence

	Install the HPP tightening the screws clockwise, according to the
	Figure 3 sequence with 12 Nm.:
	 Step 1 – 1 at 50%
Construction of the second sec	 Step 2 – 2 at 50%
	 Step 3 – 3 at 50%
	 Step 4 - 1 at 100%
O Contractor	 Step 5 - 2 at 100%
3	 Step 6 - 3 at 100%
PRO DO	
Figure 3	

CAUTION: DO NOT over torque

Table 3 – HPP Wrench Cycles recording sheet

	istro Eng	Tine		HPP Wrench Cycles recording sheet							
				Note:							
For ea	ach cycle	e, mark a	a cross o	n the co	rrespon	ding box	. When	100 cycl	es are		
			reach	ed, disca	rd the w	rench.					
	10	Gear rep	val & ins	tallation	n) = 1 cy	cle					
1	2	3	4	5	6	7	8	9	10		
11	12	13	14	15	16	17	18	19	20		
21	22	23	24	25	26	27	28	29	30		
31	32	33	34	35	36	37	38	39	40		
41	42	43	44	45	46	47	48	49	50		
51	52	53	54	55	56	57	58	59	60		
61	62	63	64	65	66	67	68	69	70		
71	72	73	74	75	76	77	78	79	80		
81	82	83	84	85	86	87	88	89	90		
91	92	93	94	95	96	97	98	99	100		
	·	HPP Drive	e gear wr	ench p/n		I	·	I	I		

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Table 4 – Service Bulletin Execution Report (SBER)

	Service Bulletin Execution	
Austro Engine	Report	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 HPP Gear s/n: Or Inspected HPP p/n and s/n:		Refer to the figure below to identify the serial number
NOTE: A scanned version <u>service@austroengine.at</u> copy to: <u>support-austria@diamondairc</u> <u>support-canada@diamondairc</u>		
support@wfjt.com NOTE: The original filled v provided to Austro Engine	ersion of this form, must be packed v	with the removed gear, and



Figure 4 – Gear s/n location



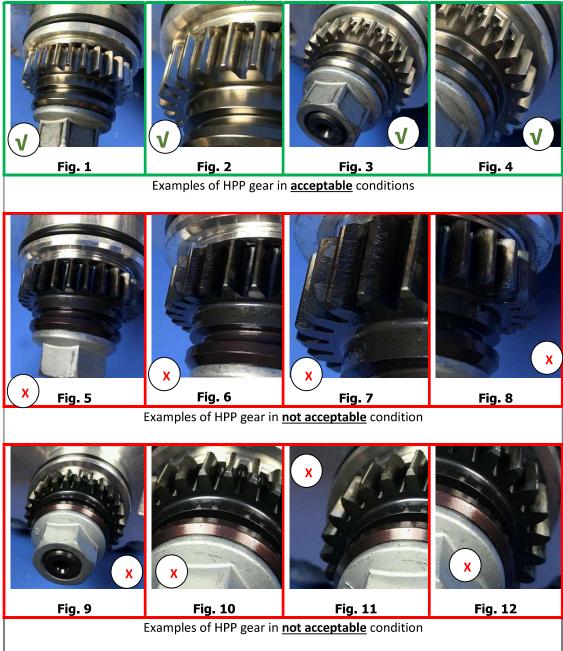
Figure 5 – HPP p/n and s/n location

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7. Appendix II

Table 5 - HPP Driving gear assembled - inspection chart



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x Fig. 13	Fig. 14	Fig. 15	Fig. 16
x i i i i i i i i i	Examples of HPP gear in	not acceptable condition	Fig. 20
	Examples of HPP gear in	not acceptable condition	
			Consultation with
	YES	NO	AE required
HPP Driving gear acceptable:	YES	NO	

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Fig. 23 Fig. 22 Fig. 24 Fig. 21 Examples of gear in acceptable conditions Fig. 25 Fig. 26 Fig. 27 Fig. 28 Examples of gear in not acceptable condition Fig. 29 Fig. 30 Fig. 31 Fig. 32 Examples of gear in not acceptable condition YES NO Consultation with AE required Part acceptable: The possible discoloration shown in the non-acceptable gears is due to high Note: • friction, which generates heat. When present, the typical discoloration is not homogeneous and presents different shades from black/blue to violet/bronze.

Х

Table 6 - HPP Driving Gear Disassembled - Inspection chart

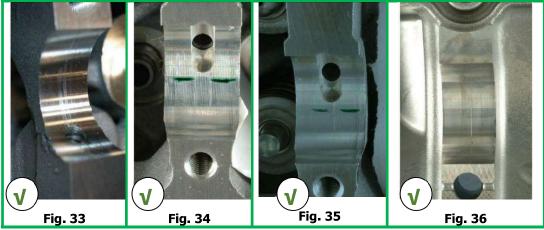
- Check the gear according to the discoloration criteria provided.
- Discoloration is clearly visible on the outer surface of the gear and in the marking zone of the gear.
- Check also for visible discoloration on the face of the teeth.
- Check for excessive wear of the gear.

In case of doubt, fill the Appendix III and contact Austro Engine

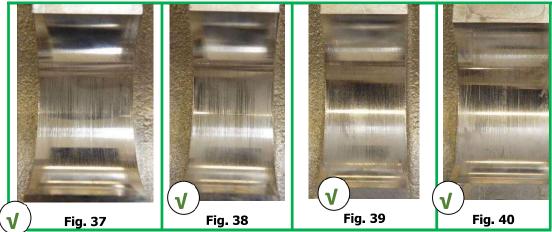
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Table 7 - Camshaft/camshaft gear - Camshaft inlet/outlet bearing - Cylinder head – HPP Shaft inspection chart



Examples of normal wear of the cylinder head at camshaft bearings



Examples of normal wear of the cylinder head at camshaft bearings

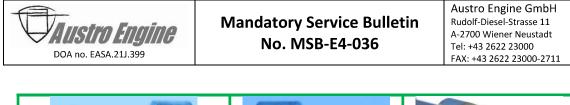
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* Fig. 41	nples of excess	Fig. 42	v Fig. 43 cylinder head at camsha	ft bearings
	YE	S NO		Consultation with AE required
Cylinder Head acceptable:	[
	cylinder he compared t valve spring Examine the for grooves	ad cover, and o the lower be s applied to th e bearing segm and/or scratch	d upper bearing bra aring surfaces. This is e camshafts.	

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x		X	
Fig. 45		Fig.	
Exam	ples of camshaft bearings <u>ir</u>	i not acceptable condit	ions
× Fig. 47	Fig. 48	Fig. 49	×
Exam	ples of camshaft bearings <u>ir</u>	i not acceptable condit	ions
	YES	NO	Consultation with AE required
Camshaft Bearings acceptable:			
Note:	Examine the inlet/outle wear, grooves detectab In case of doubt, fill the	le by finger.	nshafts for discoloration,

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Examples of camshaft in acceptable conditions

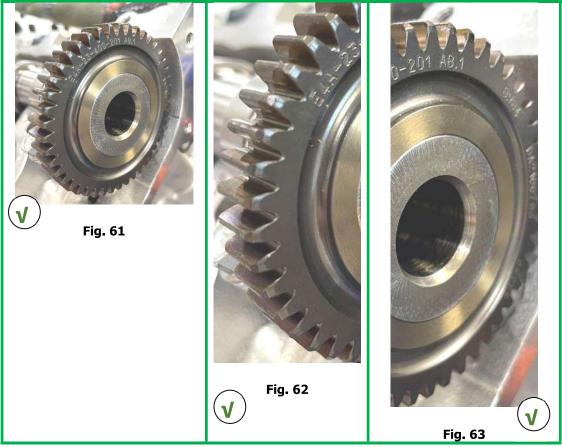
Fig. 54	Fig. 55 Examples of camshaft in <u>n</u>	× Fig. 56 ot acceptable conditions								
Image: Second										
	YES	NO	Consultation							
			with AE required							
Camshaft acceptable:										
Note:	Some bearing positions show a circular discoloration; this is a normal sign of the oil supply bore located inside the lower bearing segment. Bearing surfaces are acceptable when they have: - a homogenous, even surface									
	- no circular sensitive ru	nning mark detectable by finger	nail.							
	Camshafts with sensitive running marks detectable by fingernail are not permitted for re-use. Replace them by new ones. In case of doubt, fill the Appendix III and contact Austro Engine									
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Fig. 60



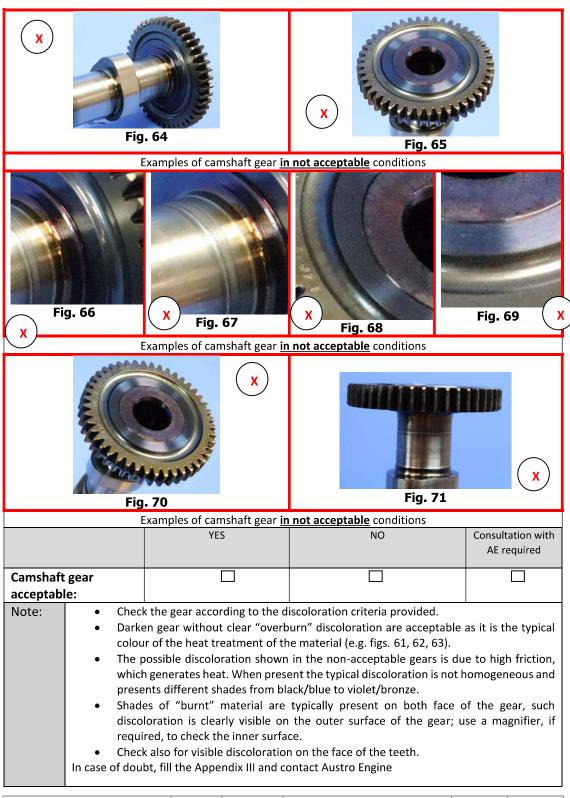
Examples of camshaft gear in acceptable conditions



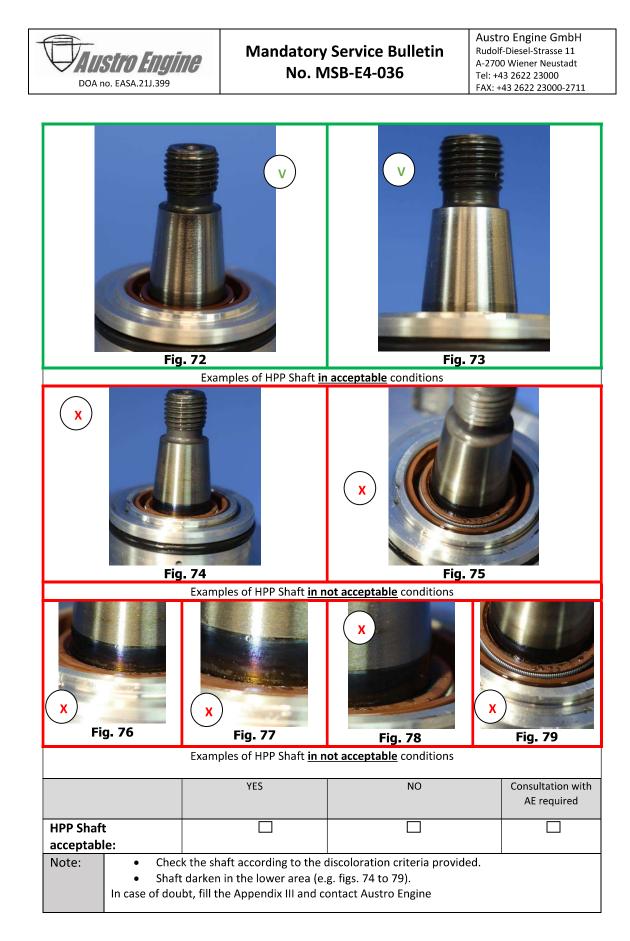
Examples of camshaft gear in acceptable conditions

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8. <u>Appendix III</u>

This form must be filled in case support for inspection is requested to Austro Engine. The form should be provided to Austro Engine service, within the photos of the inspected parts. Mark only the applicable parts.

Aircraft Serial Number			
Engine Serial Number			
Service Contacts			
Note: please mark only one	the applicable box. In case	of not applicable/not perfor	med, left the row blank
Inspected and found:	ОК	Not OK	Pictures attached
HPP Gear			
HPP Shaft			
Camshaft Gear			
Camshaft			
Cylinder Head			
Bearings			
NOTE:			
Filled by: (Name Surnar Date: (DD.MM.YYYY)	ne)		

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