

# E4 Engine



## E4.00.10 List of applicable publications (LOAP)

updated: 21.06.2022

Doc. No.	Title	Initial Issue	Revision - Date	S/N affected (SB / SI)	Remarks
<b>Manuals</b>					
E4.01.01	Operation Manual E4 (OM)		21 20-Jun-2022		
E4.01.02	Operation Manual E4P (OM)		2 20-Jun-2022		
E4.02.01	Installation Manual E4 Series (IM)		22 5-May-2022		
E4.08.04	Maintenance Manual (MM)		30 23-Sep-2021		
E4.08.16	Repair Manual Gearbox		0 5-Mar-2014		
E4.12.01	Overhaul Manual E4 (OHM)		5 1-Aug-2021		
E4.12.02	Overhaul Manual Gearbox (OHMG)		0 31-Oct-2014		
<b>Manuals - Valid temporary revisions</b>					
MM-TR-MDC-E4-469	Turbocharger stud repair		- 4-Aug-2021		
MM-TR-MDC-E4-694a	Oil Pump Lifetime Extension		- 6-May-2022		
MM-TR-MDC-E4-701c	High pressure pump gear modification		- 2-Dec-2021		
MM-TR-MDC-E4-708	HP fuel supply line - torque adaptation		- 10-Sep-2021		
MM-TR-MDC-E4-718	Engine Harness		7-Apr-2022		
MM-TR-MDC-E4-727	Scheduled Maintenance Correction		4-Nov-2021		
MM-TR-MDC-E4-737a	Two-Mass-Flywheel and Hub		- 7-Apr-2022		
MM-TR-MDC-E4-747	GPC Holder Mounting Torque		- 31-May-2022		
MM-TR-MDC-E4-754	Camshaft - Crankshaft Angle Test (Ca-Cr Test)		. 25-May-2022		
MM-TR-MDC-E4-756	Wastegate Restrictor Cleaning		- 10-May-2022		
MM-TR-ODC-E4-015	Alternative Camshaft Sensor (CAS)		- 7-Feb-2022		
RMG-TR-MDC-E4-369	General Amendments		- 15-Dec-2015		
OHM-TR-MDC-E4-555	Engine Harness		- 15-Jun-2021		
OHM-TR-MDC-E4-652	Cover Sensor Housing/Flywheel Crack Detection		- 21-Jan-2021		
OHM-TR-MDC-E4-717	Closing Cover EGR bottom		12-Oct-2021		
OHM-TR-MDC-E4-747	GPC Holder Mounting Torque		- 31-May-2022		
OHM-TR-ODC-E4-015	Alternative Camshaft Sensor		- 7-Feb-2022		
OHMG-TR-MDC-E4-275c	Crack detection / Repainting of propeller shaft		- 5-May-2015		
OHMG-TR-MDC-E4-369	General Amendments		- 15-Dec-2015		
OHMG-TR-MDC-E4-385	Bonding of gearbox-inner bearing rings		- 7-Jul-2016		
OHMG-TR-MDC-E4-390	Gearbox test run and insertion of threaded inserts		- 9-Oct-2017		
OHMG-TR-MDC-E4-419	Replace of oil pipe and oil cooler		- 12-Sep-2017		
OHMG-TR-MDC-E4-503	Pre-assembly bearing carrier		- 10-Jun-2019		
OHMG-TR-MDC-E4-576	Coating for gearbox gears		- 14-Mar-2022		

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<b>Service Information</b>					
SI-E4-001/2	Life time and TBO extension		2 22-Apr-2015	All	Only engine model E4
SI-E4-002	Gearbox oil check procedure update		0 18-May-2011	All	
SI-E4-003	Technical publication and reporting system of Austro Engine GmbH (AE)		0 30-Jan-2013	All	
SI-E4-004	EECU Venting Element		0 27-Aug-2015	All	
SI-E4-006	New revision index for part numbers		0 27-Mar-2017	All	
SI-E4-007	Proper handling of turbo charger		0 27-Sep-2016	All	
SI-E4-009	Two-mass Flywheel and Hub		0 17-Jun-2017	All	
SI-E4-010	Caution of foreign object ingestion during maintenance		0 16-Oct-2017	All	
SI-E4-011	Global alternative means of compliance (AMOC) to FAA AD 2018-07-16 (g)		0 20-Mar-2019	All	
SI-E4-013/1	Oil sampling		1 10-May-2022	All	
SI-E4-014	EECU Data Log capability		0 26-Jan-2021	All	
SI-E4-015	Handling and storage condition of engine spare parts		0 20-Apr-2021	All	
SI-E4-016/1	Cylinder head (CH) Identification - Alternative methods	4-May-2021	1 6-Dec-2021	All	
SI-E4-018	High Pressure Pump (HPP) driving gear identification		0 15-Dec-2021	Affected engine serial numbers are listed in Service Information SI-E4-018	
<b>Service Bulletins - Mandatory</b>					
MSB-E4-002/3	Configuration specification of the E4 engine	13-Feb-2009	3 25-Aug-2020	All	
MSB-E4-003/26	Software and hardware versions of the E4 engine series	18-Feb-2009	26 3-Mar-2022	All	
MSB-E4-004/1	Long term conservation of E4 engine	15-Dec-2009	1 25-Aug-2016	All	
MSB-E4-006	Repair of sensor cable for camshaft sensor of ECU B	24-Nov-2009	0 24-Nov-2009	E4-A-00001 to E4-A-00009 E4-B-00001 to E4-B-00084	
MSB-E4-007/6	Replacement of waste gate controller	22-Mar-2010	6 18-Sep-2013	E4-A-00001 to E4-A-00070 E4-B-00001 to E4-B-00345	EASA AD No.: 2013-0213 R1 CAAC CAD2013-DA42-01R1 FAA AD No. 2014-08-10
MSB-E4-008/2	Exchange of oil separator hose between cylinder head cover and oil separator	2-Jun-2010	2 24-Jan-2014	E4-B-00001 to E4-B-00109 E4-B-00112 to E4-B-00122 unless MSB-E4-008 has already been conducted or injector cover with maintenance lid is installed.	
MSB-E4-009/2	High pressure pump exchange	7-Oct-2010	2 4-Mar-2011	All engines having the high pressure pump with the part no. E4A-30-100-000 installed.	EASA AD No.: 2011-0039 FAA AD No. 2011-18-19
MSB-E4-013/1	Gearbox oil inspection	18-Aug-2011	1 19-Aug-2011	All Gearbox S/N starting with P All Gearbox S/N below 398 with less than 100 operating hours except those where FC-E4-008 or FC-E4-009 has already been performed.	
MSB-E4-014/2	Replacement of the fuel return line and banjo fitting	3-Apr-2012	2 11-Jun-2012	E4-A-00001 to E4-A-00099 E4-B-00001 to E4-B-00379 E4-C-00001 to E4-C-00020	
MSB-E4-017/2	Check/Replacement of timing chain	30-Jun-2014	2 2-Dec-2016	Model E4; All	EASA AD No.: 2017-0103 CAAC AD No.: CAD2017-MULT-36 Amnd. No. 39-9090
MSB-E4-020	Inspection of gearbox housing	24-Feb-2016	0 24-Feb-2016	All engines having gearbox with the part no.: E4A-70-000-000 Rev. 070 up to and including Rev. 101 installed	

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MSB-E4-022/5	Waste Gate Control Rod	2-Nov-2017	5 12-Dec-2018	All	
MSB-E4-024/1	Waste gate – Spring loaded circlip	21-Jun-2017	1 31-Aug-2017	All	
MSB-E4-025/3	Fuel Injectors	1-Oct-2018	3 8-Jan-2019	All	
MSB-E4-026/1	Inspection of engine harness	1-Mar-2019	1 16-Apr-2019	E4-A-00001 through E4-A-00539 E4-B-00001 through E4-B-00554 E4-C-00001 through E4-C-00539 E4P-C-00001 through E4P-C-00229	
MSB-E4-028/3	Oil return line pipe, part number E4A-55-100-000	8-Jul-2020	3 20-Jan-2021	Affected engine serial numbers are listed in the Service Bulletin MSB-E4-028/3	
MSB-E4-029/2	Modification of pressure valve hose for damping pressure oscillations	9-Dec-2020	2 26-Apr-2022	E4-A-00001 up to E4-A-05091 E4-A-06000 up to E4-A-06011 E4-B engines s/n up to E4-B-06001 E4-C engines s/n up to E4-C-06008 E4P engines s/n up to E4P-B-06001 E4P engines s/n up to E4P-C-06007	
MSB-E4-030/4	Oil pump replacement	18-Feb-2021	4 30-Mar-2021	Affected engine serial numbers are listed in the Service Bulletin MSB-E4-030/4	
MSB-E4-031/2	Oil pump replacement	14-Jun-2021	2 21-Jul-2021	Affected engine serial numbers are listed in the Service Bulletin MSB-E4-031/2	
MSB-E4-034/4	High pressure pump (HPP) driving gear replacement	11-Aug-2021	4 8-Nov-2021	Affected engine serial numbers are listed in the Service Bulletin MSB-E4-034/4	superseded by MSB-E4-036
MSB-E4-035/2	High pressure pump driving gear inspection	10-Sep-2021	2 9-Nov-2021	All E4/E4P engine s/ns having a cylinder head part number E4A-12-500-000 installed	superseded by MSB-E4-036
MSB-E4-036/1	High Pressure Pump (HPP) Inspection and Replacement	30-Nov-2021	1 15-Dec-2021	Affected engine serial numbers are listed in Service Bulletin MSB-E4-036/1	

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<b>Service Bulletins - Recommended / Optional</b>					
RSB-E4-016/1	Oil dip stick: renewal of thread lock of oil level rod	16-Jul-2013	1 25-Jul-2013	All	
RSB-E4-018	Inspection of engine harness	22-Sep-2014	0 22-Sep-2014	All	
RSB-E4-021/1	Fuel Pressure Sensor - Connector modification for sensor with p/n E4A-30-100-802	23-Sep-2016	1 17-Jun-2021	All	
RSB-E4-028/2	Installation of new sensors AEP-00284-901 for OPS (Oil Pressure Sensor) and FPS (Fuel Pressure Sensor)	3-Mar-2021	2 6-Oct-2021	All	
RSB-E4-032/1	Installation of new sensors AEP-00286-901 for BPS (Boost Pressure Sensor)	17-Jun-2021	1 12-Jul-2021	All	
RSB-E4-037/2	Loctite on flywheel hub mounting screws	15-Dec-2021	2 11-Jan-2022	Affected engine serial numbers are listed in the Service Bulletin RSB-E4-037/2	
RSB-E4-038/1	Flywheel Hub inspection for cracks	7-Feb-2022	1 24-Mar-2022	All engines having installed Hub with part no.: E4A-73-000-203	
OSB-E4-019/3	Gearbox oil cooler	31-Mar-2015	3 3-May-2018	All engines having gearbox with the part no.: E4A-70-000-000 Rev. 110 or higher installed and having engine harness E4A-95-000-000 Rev. 000 or higher installed.	
OSB-E4-033/3	Oil pump inspection to check serviceability	5-Jul-2021	3 6-May-2022	All	
<b>Other Documents</b>					
E4.08.09	AE300-Wizard User Guide		13 20-Feb-2020		
msi.file	AE300-Wizard Software		7.1 30-Sep-2021		Due to software issues with rev. 7 from 22.09.2021 the file is updated to rev. 7.1. Please uninstall rev. 7 and install rev. 7.1
.exe	AE300-Wizard Driver		3 22-Sep-2021		
E4.03.01	Illustrated Parts Catalogue		22-Mar-2021	All	
E1.03.01	Illustrated Parts Catalogue		1-Oct-2021	All	