

E4 Engine



E4.00.10

List of applicable publications (LOAP)

updated: 10.01.2022

Doc. No.	Title	Initial Issue	Revision - Date	S/N affected (SB / SI)	Remarks
Manuals					
E4.01.01	Operation Manual E4 (OM)		20 15.Nov.2016		
E4.01.02	Operation Manual E4P (OM)		1 15.Nov.2016		
E4.02.01	Installation Manual E4 Series (IM)		21 28.Apr.2016		
E4.08.04	Maintenance Manual (MM)		30 23.Sep.2021		
E4.08.16	Repair Manual Gearbox		0 05.Mar.2014		
E4.12.01	Overhaul Manual E4 (OHM)		5 20.Jän.2021		
E4.12.02	Overhaul Manual Gearbox (OHMG)		0 31.Oct.2014		
Manuals - Valid temporary revisions					
OM-TR-MDC-E4-377a	Engine Oil		- 18.Jän.2017		Model E4 and E4P
OM-TR-MDC-E4-436	Turbocharger operation		- 23.Apr.2018		Model E4 and E4P
OM-TR-MDC-E4-453	Caution Handling Tables		27.Feb.2019		Model E4 and E4P
OM-TR-MDC-E4-490	F34 Jet Fuel DEF(AUST)5240D		23.Aug.2019		Model E4 and E4P
OM-TR-MDC-E4-567a	Engine Storage		- 12.Nov.2020		Model E4 and E4P
OM-TR-MDC-E4-630	Kathon FP 1.5 Fuel Additive		- 08.Jul.2021		Model E4 and E4P
OM-TR-MDC-E4-635	Jet Fuel 3 GB 6537-2018		- 17.Nov.2020		Model E4 and E4P
OM-TR-MDC-E4-664	Manual corrections		- 22.Apr.2021		Model E4 and E4P
IM-TR-MDC-E4-376a	Fuel System Requirements		- 06.Jul.2016		
IM-TR-MDC-E4-487	Air Intake System		- 28.Mar.2019		
IM-TR-MDC-E4-552	Starter Installation Material		- 11.Dec.2019		
IM-TR-MDC-E4-567a	Engine Storage		- 12.Nov.2020		
IM-TR-MDC-E4-592	Hartzell Propeller		- 30.Okt.2020		
IM-TR-MDC-E4-618	New OPS and FPS Sensor		- 08.Jän.2021		
IM-TR-MDC-E4-675	Alternative Rear Shock Mount		- 15.Jun.2021		
IM-TR-ODC-E4-011	Alternator noise filter		- 08.Nov.2016		
MM-TR-MDC-E4-469	Turbocharger stud repair		- 04.Aug.2021		
MM-TR-MDC-E4-701c	High pressure pump gear modification		- 02.Dez.2021		
MM-TR-MDC-E4-708	HP fuel supply line - torque adaptation		- 16.Sep.2021		
MM-TR-MDC-E4-727	Scheduled Maintenance Correction		04.Nov.2021		
RMG-TR-MDC-E4-369	General Amendments		- 15.Dec.2015		
OHM-TR-MDC-E4-555	Engine Harness		- 02.Jul.2021		
OHM-TR-MDC-E4-652	Cover Sensor Housing		- 21.Jän.2021		
OHM-TR-MDC-E4-717	Closing Cover EGR bottom		12.Oct.2021		
OHMG-TR-MDC-E4-275c	Crack detection / Repainting of propeller shaft		- 05.Mai.2015		
OHMG-TR-MDC-E4-369	General Amendments		- 15.Dec.2015		
OHMG-TR-MDC-E4-385	Bonding of gearbox-inner bearing rings		- 07.Jul.2016		
OHMG-TR-MDC-E4-390	Gearbox test run and insertion of threaded inserts		- 27.Apr.2018		
OHMG-TR-MDC-E4-419	Replace of oil pipe and oil cooler		- 21.Sep.2017		
OHMG-TR-MDC-E4-503	Pre-assembly bearing carrier		- 10.Jul.2019		

E4 Engine



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Service Information					
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 18.05.2011	All	
SI-E4-003	Technical publication and reporting system of 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 14.Jun.2017	All	
SI-E4-010	Caution of foreign object ingestion during maintenance		0 16.Oct.2017	All	
SI-E4-011	AMOC Waste gate con-rod		0 20.Mar.2019	All	
SI-E4-013	Oil sampling		0 28.Oct.2020	All	
SI-E4-014	EECU Data Log		0 26.Jan.2021	All	
SI-E4-015	Handling and storage condition of spare parts		0 20.Apr.2021	All	
SI-E4-016/1	Cylinder head identification - Alternative methods	04.Mai.2021	1 06.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	
Service Bulletins - Mandatory					
MSB-E4-002/3	Configuration specification of the E4 engine	13.Feb.2009	2 25.Aug.2020	All	
MSB-E4-003/25	Software and hardware versions of the E4 engine series	18.Feb.2009	25 23.Jun.2020	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	02.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	07.Oct.2010	2 04.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	03.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 02.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	

E4 Engine



E4.00.10 List of applicable publications (LOAP)

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MSB-E4-022/5	Waste Gate Control Rod	02.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	Injectors	01.Oct.2018	3 08.Jän.2019	All	
MSB-E4-026/1	Inspection of engine harness	01.Mär.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	08.Jul.2020	3 20.Jän.2021	Affected engine serial numbers are listed in the Service Bulletin MSB-E4-028/3	
MSB-E4-029/1	Modification of pressure valve hose for famping pressure oscillatio	09.Dez.2020	1 18.Feb.2021	All	
MSB-E4-030/4	Oil pump replacement	18.Feb.2021	4 30.Mär.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 driving gear replacement	11.Aug.2021	4 08.Nov.2021	Affected enine 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 08.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 14.Dez.2021	Affected engine serial numbers are listed in Service Bulletin MSB-E4-036/1	

E4 Engine



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Service Bulletins - Recommended / Optional					
RSB-E4-016/1	Oil dip stick	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	23.Sep.2016	1 05.Jul.2021	All	
RSB-E4-028/2	New OPS / FPS AEP-00284-901	18.Mar.2021	2 06.Okt.2021	All	
RSB-E4-032/1	New BPS AEP-00286-901	05.Jul.2021	1 12.Jul.2021	All	
RSB-E4-037/1	Loctite on flywheel hub mounting screws	15.Dez.2021	1 23.Dez.2021	All	Affected engine serial numbers are listed in the Service Bulletin RSB-E4-037/1
OSB-E4-019/3	Gearbox oil cooler	31.Mär.2015	3 03.Mai.2018	All	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-E4-033/1	Oil pump inspection to check serviceability	05.Jul.2021	1 12.Jul.2021	All	
Other Documents					
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.Mär.2021	All	
E1.03.01	Illustrated Parts Catalogue		01.Okt.2021	All	