

E4 Engine



E4.00.10 List of applicable publications (LOAP)

updated: 03.Mai.2019

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)		27 23.Feb.2017		
E4.08.16	Repair Manual Gearbox		0 05.Mar.2014		
E4.12.01	Overhaul Manual E4 (OHM)		4 03.Mai.2018		
E4.12.02	Overhaul Manual Gearbox (OHMG)		0 31.Oct.2014		
Manuals - Valid temporary revisions					
OM-TR-MDC-E4-377a	Engine Oil		- 18.Jan.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
IM-TR-MDC-E4-376a	Fuel System Requirements		- 06.Jul.2016		
IM-TR-ODC-E4-011	Alternator noise filter		- 08.Nov.2016		
IM-TR-MDC-E4-487	Air Intake System		28.Mar.2019		
MM-TR-MDC-E4-390	Editorial changes - Alternator		- 27.Apr.2018		
MM-TR-MDC-E4-407	Alternator - Functional Check		- 05.Apr.2017		
MM-TR-MDC-E4-413a	Two-mass flywheel - Inspection procedure		- 20.Jun.2017		
MM-TR-MDC-E4-414	Two-mass flywheel and Hub		- 20.Jun.2017		
MM-TR-MDC-E4-422c	Waste Gate Conrod Fail-Safe Bridge		- 27.Feb.2019		
MM-TR-MDC-E4-439a	Electrical Harness		- 18.Jan.2019		
MM-TR-MDC-E4-441	Overspeed inspection		- 29.Jun.2018		
MM-TR-MDC-E4-454	Airworthiness Limitation		- 06.Nov.2018		
MM-TR-MDC-E4-457	Component Time Limit Circlip Turbo Charger		- 26.Nov.2018		
MM-TR-MDC-E4-467	Installation of Cylinder Head		- 12.Dez.2018		
MM-TR-MDC-E4-470	Inspection of Glow Plug Control		22.Jan.2019		
MM-TR-MDC-E4-480	Camshaft pairing		- 03.Apr.2019		
MM-TR-MDC-E4-484	Installation of the Injector		- 15.Feb.2019		
MM-TR-MDC-E4-485	Inspection of Two-mass-flywheel		- 21.Feb.2019		
MM-TR-MDC-E4-498	Fuel Return Line		- 17.Apr.2019		
RMG-TR-MDC-E4-369	General Amendments		- 15.Dec.2015		
OHM-TR-MDC-E4-399	Turbo charger torque seal		- 20.Sep.2017		
OHM-TR-MDC-E4-414	Two-mass-flywheel and Hub		- 20.Jun.2017		
OHM-TR-MDC-E4-419	Replace of oil pipe and oil cooler		- 21.Sep.2017		
OHM-TR-MDC-E4-444	Update OHM		- 20.Aug.2018		
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		

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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	
Service Bulletins - Mandatory					
MSB-E4-002/2	Configuration specification of the E4 engine	13.Feb.2009	2 01.Apr.2015	All	
MSB-E4-003/22	Software and hardware versions of the E4 engine series	18.Feb.2009	22 13.Mar.2017	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	
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.Jan.2019	All	
MSB-E4-026/1	Inspection of engine harness	01.Mrz.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	

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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	Fuel Pressure Sensor - Connector modification	23.Sep.2016	0 23.Sep.2016	All	
OSB-E4-019/3	Gearbox oil cooler	31.Mrz.2015	3 03.Mai.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.	
Other Documents					
E4.08.09	AE300-Wizard User Guide		7 09.Nov.2012		
E4.08.09	AE300-Wizard User Guide		12 11.Dez.2017		
E4.08.09	AE300-Wizard User Guide		8 10.Mai.2016		