

SERVICE INFORMATION

NO. SI 42NG-138

I TECHNICAL DETAILS

I.1 Airplanes affected

Type: DA 42 NG, DA 42 M-NG

I.2 Subject

Austro Engine Mandatory Service Bulletin No. MSB-E4-042
ATA-Code: 72-30

I.3 Reason

Austro Engine GmbH issued Mandatory Service Bulletin No. MSB-E4-042 mandating crankshaft-bearing cap screws replacement on engine serial numbers listed in the MSB-E4-042.

I.4 Information

For detailed technical information refer to Austro Engine Mandatory Service Bulletin No. MSB-E4-042, which is applicable without any further additions or restrictions.

II REMARKS

1. Austro Engine Mandatory Service Bulletin No. MSB-E4-042 is attached to this Service Information.
2. In case of doubt contact Austro Engine GmbH.
3. For detailed information of the Service Information System refer to SI 42NG-001/3.



MANDATORY SERVICE BULLETIN

No. MSB-E4-042

Distribution:	Portal
Date:	31.01.2024

1. Basic information

1.1. Subject

Crankshaft-bearing cap screws replacement

1.2. Record of revisions

Rev.	Date	Reason
0	31.01.2024	Initial approval

Revised portions of this Mandatory Service Bulletin are marked **highlighting the revised text in yellow**.
Removed text is highlighted in grey and strikethrough ~~example~~.

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1.3. Definitions and Acronyms

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

AD:	Airworthiness Directive.
Diamond partners portal:	partners.diamondaircraft.com
EAD:	Emergency Airworthiness Directive.
FH:	Flight Hours.
Flight Hours:	Means the cumulative number of airborne hours in operation of each Engine computed from the time an aircraft leaves the ground until it touches the ground at the end of a flight.
GTC:	General Terms of Commerce.
MSB:	Mandatory Service Bulletin.
n/a:	Not applicable.
no.:	Number.
p/n or p/ns:	Part number or Part numbers.
SB:	Service Bulletin.
s/n or s/ns:	Serial number or Serial numbers.
TBO:	Time Between Overhaul.
Time Between Overhaul:	Is the maximum number of Flight Hours that may be logged on an engine before the Maintenance Manual requires the product be removed for overhaul or replacement. For E4 and E4P engines the recommended Time Between Overhaul is 1800 FH.
TSN:	Time Since New.
Time Since New:	Is the amount of Flight Hours elapsed since new.
Time Since Overhaul:	Is the amount of Flight Hours elapsed since the last engine overhaul.
VFR:	Visual flight rules

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1.4. Reason

Occurrences of E4 series engines have been reported recently. Investigation of the occurrences has shown in some cases the failure of one inner main bearing cap screw. Subsequent investigations have determined that certain batches of inner main bearing cap screws were produced at the lower end of the material strength tolerance for Class 8.8 screws. Depending on the magnitude of the screw's strength properties, the potential for screw failure, leading to engine failure, exists in cases where abnormal operating conditions are experienced such as fuel quality issues or significant deviations from the fuel system requirements. To address this possible unsafe condition, this Service Bulletin requires the replacement of the inner main bearing cap screws, with screws having highest safety factor, to be completed within the timeframe specified in §1.6.

1.5. Engines affected

Engine affected: E4 Series
Serial numbers affected: All E4/E4P engines listed in Table 1 and Table 2

Table 1 - Affected Engine Serial Numbers

E4-A				
E4-A-00228	E4-A-06322	E4-A-06383	E4-A-06448	E4-A-06491
E4-A-00425	E4-A-06323	E4-A-06384	E4-A-06452	E4-A-06492
E4-A-00441	E4-A-06324	E4-A-06385	E4-A-06458	E4-A-06493
E4-A-00485	E4-A-06325	E4-A-06386	E4-A-06459	E4-A-06494
E4-A-00549	E4-A-06326	E4-A-06387	E4-A-06460	E4-A-06499
E4-A-05077	E4-A-06327	E4-A-06388	E4-A-06461	E4-A-06500
E4-A-06276	E4-A-06328	E4-A-06389	E4-A-06462	E4-A-06502
E4-A-06277	E4-A-06329	E4-A-06390	E4-A-06463	E4-A-06504
E4-A-06279	E4-A-06332	E4-A-06391	E4-A-06464	E4-A-06506
E4-A-06280	E4-A-06333	E4-A-06392	E4-A-06468	E4-A-06507
E4-A-06281	E4-A-06340	E4-A-06393	E4-A-06469	E4-A-06508
E4-A-06282	E4-A-06341	E4-A-06394	E4-A-06470	E4-A-06509
E4-A-06283	E4-A-06343	E4-A-06397	E4-A-06471	E4-A-06510
E4-A-06285	E4-A-06349	E4-A-06398	E4-A-06472	E4-A-06511
E4-A-06286	E4-A-06353	E4-A-06400	E4-A-06473	E4-A-06512
E4-A-06287	E4-A-06354	E4-A-06401	E4-A-06474	E4-A-06513
E4-A-06289	E4-A-06359	E4-A-06402	E4-A-06475	E4-A-06515
E4-A-06290	E4-A-06360	E4-A-06403	E4-A-06476	E4-A-06516
E4-A-06292	E4-A-06361	E4-A-06404	E4-A-06477	E4-A-06517
E4-A-06306	E4-A-06362	E4-A-06405	E4-A-06478	E4-A-06519
E4-A-06310	E4-A-06366	E4-A-06406	E4-A-06479	E4-A-06521
E4-A-06311	E4-A-06367	E4-A-06407	E4-A-06480	E4-A-06522
E4-A-06312	E4-A-06368	E4-A-06408	E4-A-06481	E4-A-06523
E4-A-06313	E4-A-06370	E4-A-06409	E4-A-06482	E4-A-06525
E4-A-06314	E4-A-06371	E4-A-06410	E4-A-06483	E4-A-06526
E4-A-06315	E4-A-06372	E4-A-06413	E4-A-06484	E4-A-06527
E4-A-06316	E4-A-06373	E4-A-06414	E4-A-06485	E4-A-06528
E4-A-06317	E4-A-06374	E4-A-06424	E4-A-06486	E4-A-06531
E4-A-06318	E4-A-06375	E4-A-06425	E4-A-06487	E4-A-06533
E4-A-06319	E4-A-06376	E4-A-06435	E4-A-06488	E4-A-06534
E4-A-06320	E4-A-06378	E4-A-06441	E4-A-06489	E4-A-06535
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E4-A-06540	E4-A-06606	E4-A-06722	E4-A-06762	E4-A-06802			
E4-A-06541	E4-A-06607	E4-A-06723	E4-A-06763	E4-A-06803			
E4-A-06542	E4-A-06608	E4-A-06724	E4-A-06764	E4-A-06804			
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E4-A-06546	E4-A-06612	E4-A-06730	E4-A-06768				
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E4-A-06558	E4-A-06622	E4-A-06735	E4-A-06773				
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E4P-C-06330	E4P-C-06373	E4P-C-06394	
E4P-C-06331	E4P-C-06376	E4P-C-06395	
E4P-C-06342	E4P-C-06377	E4P-C-06396	
E4P-C-06344	E4P-C-06378	E4P-C-06397	
E4P-C-06353	E4P-C-06379	E4P-C-06398	
E4P-C-06354	E4P-C-06380	E4P-C-06399	
		E4P-C-06400	
		E4P-C-06401	

Engine Core s/n

00206	02229	02263	02933
01941	02230	02264	03179
02175	02231	02265	03183
02176	02232	02266	03188
02177	02233	02267	03192
02178	02234	02268	03271
02179	02235	02279	03294
02180	02236	02280	03313
02181	02237	02281	03343
02182	02238	02288	03367
02195	02239	02308	03411
02197	02240	02319	03413
02198	02241	02321	
02199	02242	02323	
02200	02243	02325	
02205	02244	02328	
02206	02245	02340	
02207	02246	02358	
02208	02247	02367	
02209	02248	02379	
02210	02249	02381	
02211	02250	02382	
02212	02251	02383	
02213	02252	02408	
02214	02253	02628	
02225	02259	02656	
02226	02260	02893	
02227	02261	02914	
02228	02262	02917	

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Table 2 - Affected Engine Serial Numbers

E4-A				
E4-A-06134	E4-A-06432	E4-A-06576	E4-A-06663	
E4-A-06138	E4-A-06433	E4-A-06578	E4-A-06664	
E4-A-06149	E4-A-06434	E4-A-06582	E4-A-06665	
E4-A-06180	E4-A-06438	E4-A-06585	E4-A-06666	
E4-A-06216	E4-A-06439	E4-A-06587	E4-A-06668	
E4-A-06218	E4-A-06440	E4-A-06588	E4-A-06669	
E4-A-06219	E4-A-06444	E4-A-06589	E4-A-06672	
E4-A-06222	E4-A-06446	E4-A-06590	E4-A-06673	
E4-A-06223	E4-A-06447	E4-A-06592	E4-A-06674	
E4-A-06225	E4-A-06450	E4-A-06593	E4-A-06675	
E4-A-06226	E4-A-06451	E4-A-06599	E4-A-06676	
E4-A-06227	E4-A-06453	E4-A-06615	E4-A-06677	
E4-A-06233	E4-A-06454	E4-A-06617	E4-A-06678	
E4-A-06239	E4-A-06455	E4-A-06618	E4-A-06679	
E4-A-06242	E4-A-06456	E4-A-06619	E4-A-06680	
E4-A-06246	E4-A-06457	E4-A-06620	E4-A-06681	
E4-A-06300	E4-A-06465	E4-A-06624	E4-A-06682	
E4-A-06302	E4-A-06466	E4-A-06625	E4-A-06683	
E4-A-06303	E4-A-06467	E4-A-06627	E4-A-06684	
E4-A-06304	E4-A-06495	E4-A-06629	E4-A-06685	
E4-A-06307	E4-A-06496	E4-A-06630	E4-A-06686	
E4-A-06308	E4-A-06497	E4-A-06631	E4-A-06687	
E4-A-06334	E4-A-06498	E4-A-06632	E4-A-06688	
E4-A-06338	E4-A-06501	E4-A-06633	E4-A-06689	
E4-A-06347	E4-A-06503	E4-A-06634	E4-A-06690	
E4-A-06350	E4-A-06505	E4-A-06635	E4-A-06691	
E4-A-06351	E4-A-06514	E4-A-06636	E4-A-06692	
E4-A-06352	E4-A-06518	E4-A-06638	E4-A-06695	
E4-A-06357	E4-A-06520	E4-A-06640	E4-A-06696	
E4-A-06369	E4-A-06524	E4-A-06641	E4-A-06698	
E4-A-06395	E4-A-06529	E4-A-06642	E4-A-06699	
E4-A-06399	E4-A-06530	E4-A-06643	E4-A-06702	
E4-A-06411	E4-A-06532	E4-A-06645	E4-A-06704	
E4-A-06412	E4-A-06538	E4-A-06646	E4-A-06705	
E4-A-06415	E4-A-06547	E4-A-06647	E4-A-06706	
E4-A-06416	E4-A-06548	E4-A-06649	E4-A-06707	
E4-A-06417	E4-A-06550	E4-A-06650	E4-A-06708	
E4-A-06418	E4-A-06551	E4-A-06651	E4-A-06709	
E4-A-06419	E4-A-06552	E4-A-06652		
E4-A-06420	E4-A-06553	E4-A-06653		
E4-A-06421	E4-A-06554	E4-A-06654		
E4-A-06422	E4-A-06559	E4-A-06655		
E4-A-06423	E4-A-06560	E4-A-06656		
E4-A-06426	E4-A-06563	E4-A-06657		
E4-A-06427	E4-A-06569	E4-A-06658		
E4-A-06428	E4-A-06571	E4-A-06659		
E4-A-06429	E4-A-06572	E4-A-06660		
E4-A-06430	E4-A-06573	E4-A-06661		
E4-A-06431	E4-A-06575	E4-A-06662		

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E4-B							
E4-B-06027	E4-B-06082	E4-B-06116					
E4-B-06028	E4-B-06087	E4-B-06117					
E4-B-06029	E4-B-06090	E4-B-06118					
E4-B-06044	E4-B-06093	E4-B-06119					
E4-B-06045	E4-B-06095	E4-B-06120					
E4-B-06067	E4-B-06102	E4-B-06122					
E4-B-06068	E4-B-06107	E4-B-06124					
E4-B-06071	E4-B-06110	E4-B-06126					
E4-B-06073	E4-B-06113						
E4-B-06074	E4-B-06114						
E4-B-06075	E4-B-06115						
E4-C							
E4-C-00267	E4-C-06326	E4-C-06448	E4-C-06532				
E4-C-00354	E4-C-06327	E4-C-06450	E4-C-06533				
E4-C-00406	E4-C-06328	E4-C-06451	E4-C-06540				
E4-C-00681	E4-C-06329	E4-C-06455	E4-C-06544				
E4-C-06191	E4-C-06330	E4-C-06456	E4-C-06546				
E4-C-06196	E4-C-06331	E4-C-06457	E4-C-06547				
E4-C-06201	E4-C-06334	E4-C-06462	E4-C-06549				
E4-C-06205	E4-C-06335	E4-C-06469	E4-C-06550				
E4-C-06239	E4-C-06338	E4-C-06470	E4-C-06552				
E4-C-06241	E4-C-06342	E4-C-06471	E4-C-06553				
E4-C-06254	E4-C-06344	E4-C-06480	E4-C-06554				
E4-C-06256	E4-C-06361	E4-C-06488	E4-C-06555				
E4-C-06257	E4-C-06378	E4-C-06489	E4-C-06556				
E4-C-06265	E4-C-06382	E4-C-06490	E4-C-06557				
E4-C-06266	E4-C-06385	E4-C-06491	E4-C-06558				
E4-C-06275	E4-C-06393	E4-C-06492	E4-C-06559				
E4-C-06276	E4-C-06394	E4-C-06493	E4-C-06560				
E4-C-06282	E4-C-06399	E4-C-06499	E4-C-06561				
E4-C-06294	E4-C-06401	E4-C-06502					
E4-C-06295	E4-C-06402	E4-C-06506					
E4-C-06301	E4-C-06412	E4-C-06511					
E4-C-06302	E4-C-06414	E4-C-06513					
E4-C-06303	E4-C-06416	E4-C-06514					
E4-C-06308	E4-C-06418	E4-C-06516					
E4-C-06309	E4-C-06422	E4-C-06517					
E4-C-06310	E4-C-06425	E4-C-06518					
E4-C-06312	E4-C-06426	E4-C-06520					
E4-C-06314	E4-C-06427	E4-C-06521					
E4-C-06315	E4-C-06428	E4-C-06522					
E4-C-06316	E4-C-06429	E4-C-06523					
E4-C-06317	E4-C-06430	E4-C-06524					
E4-C-06318	E4-C-06433	E4-C-06525					
E4-C-06319	E4-C-06434	E4-C-06526					
E4-C-06321	E4-C-06435	E4-C-06527					
E4-C-06322	E4-C-06436	E4-C-06528					
E4-C-06323	E4-C-06437	E4-C-06529					
E4-C-06324	E4-C-06442	E4-C-06530					
E4-C-06325	E4-C-06446	E4-C-06531					
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E4P				
E4P-C-06118	E4P-C-06211	E4P-C-06275	E4P-C-06317	E4P-C-06340
E4P-C-06119	E4P-C-06212	E4P-C-06276	E4P-C-06318	E4P-C-06341
E4P-C-06124	E4P-C-06213	E4P-C-06280	E4P-C-06320	E4P-C-06343
E4P-C-06127	E4P-C-06216	E4P-C-06285	E4P-C-06321	E4P-C-06345
E4P-C-06129	E4P-C-06217	E4P-C-06288	E4P-C-06322	E4P-C-06346
E4P-C-06132	E4P-C-06218	E4P-C-06289	E4P-C-06324	E4P-C-06347
E4P-C-06155	E4P-C-06219	E4P-C-06290	E4P-C-06325	E4P-C-06348
E4P-C-06159	E4P-C-06220	E4P-C-06291	E4P-C-06327	E4P-C-06349
E4P-C-06160	E4P-C-06224	E4P-C-06294	E4P-C-06329	E4P-C-06350
E4P-C-06161	E4P-C-06227	E4P-C-06295	E4P-C-06332	E4P-C-06351
E4P-C-06165	E4P-C-06229	E4P-C-06296	E4P-C-06333	E4P-C-06352
E4P-C-06166	E4P-C-06255	E4P-C-06297	E4P-C-06334	E4P-C-06355
E4P-C-06173	E4P-C-06258	E4P-C-06300	E4P-C-06335	E4P-C-06356
E4P-C-06178	E4P-C-06267	E4P-C-06309	E4P-C-06336	E4P-C-06357
E4P-C-06184	E4P-C-06271	E4P-C-06313	E4P-C-06337	E4P-C-06358
E4P-C-06209	E4P-C-06273	E4P-C-06314	E4P-C-06338	E4P-C-06372
E4P-C-06210	E4P-C-06274	E4P-C-06316	E4P-C-06339	
Engine core s/n				
02327	02343	02533		
02421	02341	02532		
02282	02361	02552		
02286	02347	02536		
02287	02385	02541		
02402	02360	02548		
02304	02362	02539		
02284	02364	02543		
02283	02346	02422		
02299	02366	02538		
02339	02400	02423		
02300	02405	02534		
02307	02380	02551		
02320	02365	02549		
02301	02542	02537		
02306	02407	02424		
02363	02406	02428		
02305	02399	02545		
02285	02420	02553		
02303	02535	02554		
02359	02540	02427		
02302	02404	02544		
02345	02386	02546		
02344	02384	02426		
02324	02368	02547		
02326	02388	02550		
02342	02403	02425		
02322	02401	02993		
02387	02419	02992		

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1.6. Required Actions and Time of Compliance

GROUP "1" ENGINES		
ALL the s/n listed in Table 1	Replace the inner main bearing cap screws, position (3) (4) (5) (6) (7) (8) of figure 1	<p>Measures must be accomplished immediately.</p> <p>A single ferry flight to the next maintenance station to meet the requirements of this service bulletin is allowed. The maximum flight duration is 3 hours and is limited to VFR-Day condition.</p>

GROUP "2" ENGINES		
ALL the s/n listed in Table 2	Replace the inner main bearing cap screws, position (3) (4) (5) (6) (7) (8) of figure 1	<p>Before accumulating 300 Flight Hours or with the next scheduled maintenance action, whichever occurs first⁽¹⁾</p>

(1) Time of compliance for Engines where an Overhaul was accomplished:



The FH specified in §1.6 of this MSB are those accumulated by the engine since first installation on an aeroplane, or since last overhaul:

e.g., For an engine which was overhauled at 1800FH, the required replacement actions must be accomplished before accumulating 2100FH (300FH since overhaul)

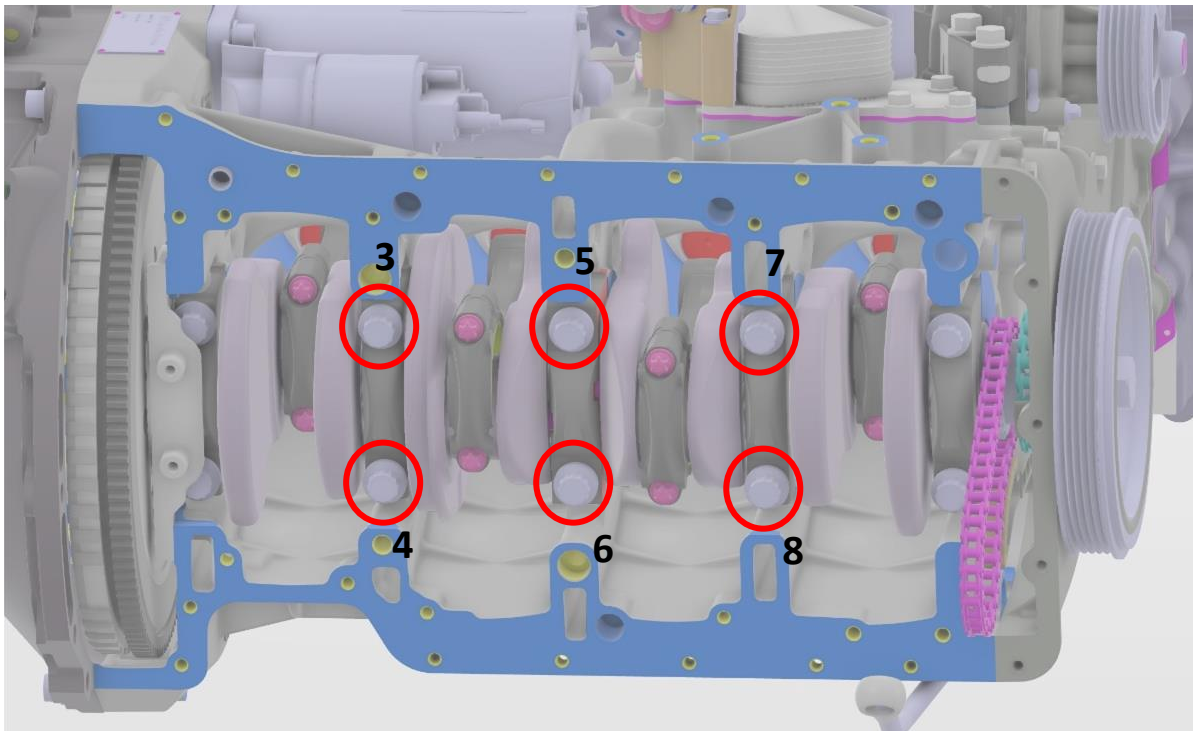


Figure 1 – Main bearing cap screws to be replaced.

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1.7. Concurrent documents / references

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

- Work instruction WI-MSB-E4-042

1.8. Other publications affected

None

1.9. Credits

None

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2. Technical Details

Main bearing cap screw replacement

- Perform the replacement of the main bearing cap screws in accordance with the instruction provided in the work instruction no. WI-MSB-E4-042 rev. 0 or latest approved revision.
- Mark the service bulletin as executed on the *Diamond partners portal*

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2.1. Illustrations

None

2.2. Mass (weight)

Not affected

2.3. Approval statement

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

3. Planning Information

3.1. Material & Special tools

The list of materials and special tools is provided in the WI-MSB-E4-042, latest applicable revision.

3.2. Labour effort

8 hours for main bearing cap screws replacement according to WI-MSB-E4-042

4. Warranty

Costs for labour and parts related to the applicability of this MSB will be covered by Austro Engine GmbH warranty under the limitations outlined in paragraph 3.2 and within the currently valid GTC. For engine units affected by this MSB and approaching end TBO/TBR deadline pro-rated solutions may be offered on a case-by-case basis.

Diamond and Austro Engine GmbH GTCs are available at <https://www.diamondaircraft.com/en/GTC>

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5. Remarks

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 logbook.
- The accomplishment of the instructions must be carried out within the time of compliance according to chapter 1.6
- In case of doubt, please contact Austro Engine GmbH via the Diamond Partner Portal
- If you are not a Diamond Partner / Service Centre, please contact a Diamond/Austro Engine Authorized Service Centre near you.

6. Explanatory notes

6.1. Symbol explanation



WARNING: Disregarding these safety rules can cause personal injury or even death



CAUTION: Disregarding these special instructions and safety measures can cause damage to the engine or other components



NOTE: Additional note or instruction for better understanding of an instruction

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7. Appendix I

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