



W 8050 M0

Maintenance Instruction

Crankshaft main bearing / Crankshaft thrust bearing



© INNIO Jenbacher GmbH & Co OG
Achenseestr. 1-3
A-6200 Jenbach, Austria
www.innio.com

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1 Scope

This Maintenance Instruction (W) applies to the following Jenbacher Gas Engines:

- Type 2 engines
- Type 3 engines
- Type 4 engines

2 Purpose

This Maintenance Instruction (W) describes the maintenance interval.

3 Maintenance interval

Maintenance work	Maintenance interval	Carried out by ¹⁾
⇒ Replace crankshaft main bearings	30,000 Oh / 6,000 starts	INNIO
⇒ Replace the lower crankshaft thrust bearing shell	30,000 Oh / 6,000 starts ¹⁾	INNIO
⇒ Inspect the upper crankshaft thrust bearing shell and check that it is firmly seated	30,000 Oh / 6,000 starts ²⁾	INNIO

¹⁾ or each time the crankshaft main bearings are replaced, whichever comes first

²⁾ but replace as per W 2100 M0 at the latest

Valid for:

- Type 2: Maintenance schedule A
 - Type 3: Maintenance schedule A Maintenance schedule D
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Maintenance work	Maintenance interval	Carried out by ¹⁾
⇒ Replace crankshaft main bearings	30,000 Oh / 4,000 starts	INNIO
⇒ Replace the lower crankshaft thrust bearing shell	30,000 Oh / 4,000 starts ¹⁾	INNIO
⇒ Inspect the upper crankshaft thrust bearing shell and check that it is firmly seated	30,000 Oh / 4,000 starts ²⁾	INNIO

¹⁾ or each time the crankshaft main bearings are replaced, whichever comes first

²⁾ but replace as per W 2100 M0 at the latest

Valid for:

- Type 4: Maintenance schedule A Maintenance schedule D Maintenance schedule E Maintenance plan P

Maintenance work	Maintenance interval	Carried out by ¹⁾
⇒ Replace crankshaft main bearings	40,000 Oh / 3,000 starts	INNIO
⇒ Replace the lower crankshaft thrust bearing shell	40,000 Oh / 3,000 starts ¹⁾	INNIO
⇒ Inspect the upper crankshaft thrust bearing shell and check that it is firmly seated	40,000 Oh / 3,000 starts ²⁾	INNIO

¹⁾ or each time the crankshaft main bearings are replaced, whichever comes first

²⁾ but replace as per W 2100 M0 at the latest

Valid for:

- Type 2: Maintenance schedule B
- Type 3: Maintenance schedule B
- Type 4: Maintenance schedule B

Maintenance work	Maintenance interval	Carried out by ¹⁾
⇒ Replace crankshaft main bearings	40,000 Oh / 4,000 starts	INNIO
⇒ Replace the lower crankshaft thrust bearing shell	40,000 Oh / 4,000 starts ¹⁾	INNIO
⇒ Inspect the upper crankshaft thrust bearing shell and check that it is firmly seated	40,000 Oh / 4,000 starts ²⁾	INNIO

¹⁾ or each time the crankshaft main bearings are replaced, whichever comes first

²⁾ but replace as per W 2100 M0 at the latest

Valid for:

- Type 2: Maintenance schedule C
- Type 3: Maintenance schedule C
- J416 with version C206, C209, C211 and C212

***) Carried out by This column defines who carries out the maintenance work.**

K	This activity is to be carried out by the customer, INNIO or a company selected and authorised by INNIO to carry out this work.
INNIO	This activity is to be carried out by INNIO or a company selected by INNIO authorised to carry out this work.

4 Safety information

NOTE



Engine damage

There is a danger of engine damage if cleanliness is inadequate in the clean oil zone.

- Pay particular attention to cleanliness.
- Proceed in accordance with TA 1100-0113 in clean oil areas.

⚠ WARNING



Danger from unauthorised restarting

Serious injuries such as cutting, crushing, severing or shearing of body parts due to unintentional contact with rotating or moving machine parts.

- Shut down the engine as described in TA 1100-0105.
- Secure the engine against unauthorised restarting in accordance with TA 2300-0010.



5 Additional information

Relevant documents:

TA 1100-0105 - Engine shut-down

TA 1100-0113 - Cleanliness During Service Work Involving Clean Oil Parts

TA 2300-0010 - Guidelines for using the LOTO kit

6 Work steps

6.1 Replace crankshaft main bearings

This activity is to be carried out by INNIO or a company selected by INNIO authorised to carry out this work.

6.2 Replace the lower crankshaft thrust bearing shell

This activity is to be carried out by INNIO or a company selected by INNIO authorised to carry out this work.

6.3 Inspect the upper crankshaft thrust bearing shell and check that it is firmly seated

This activity is to be carried out by INNIO or a company selected by INNIO authorised to carry out this work.

7 Revision code**Revision history**

Index	Date	Description / Revision summary	Expert Auditor
8	30.04.2019	Verlängertes Wartungsintervall für J416 mit Version C206, C209, C211 und C212 ergänzt / Extended maintenance interval for J416 with version C206, C209, C211 and C212 added	Rogers E. <i>Waldron P.</i>
7	30.05.2018	Strukturelle Anpassungen / Structural adaptiones Start-Intervall bei Baureihe 2 und 3 für Wartungsplan A und D geändert / Starts-interval at type 2 and 3 for maintenance schedule A and D changed	Rogers E. <i>Waldron P.</i>
6	31.05.2016	Axiallager hinzugefügt / Thrust bearing added	Waldron P., Khare A. <i>Wolf S.</i>
5	02.11.2015	Neues Wartungsintervall für J420 B305 – Peaking-Anwendung / New maintenance interval for J420 B305 – Peaking application	Waldron P. <i>Wolf S.</i>
		Verlängertes Wartungsintervall für Baureihe 2 mit Wartungsplan C / Extended service interval for type 2 with maintenance schedule C.	Rogers E. <i>Wolf S.</i>
4	28.01.2014	Verlängertes Wartungsintervall ergänzt / Extended service interval supplemented	Bilek <i>Anderson</i>
3	29.10.2013	Hinweis neu / Notice new	Bilek <i>Winterle</i>