



W 8025 M0

Maintenance Instruction

Exhaust gas turbocharger



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1 Scope

This Maintenance Instruction (W) applies to the following exhaust-gas turbochargers:

- PBST, types TCR 14, 16, and 18

2 Purpose

This Maintenance Instruction (W) describes the maintenance interval.

3 Maintenance interval

Maintenance work	Maintenance interval	Carried out by ¹⁾
⇒ Check that all the bolted joints/seals and covers sit properly.	2,000 Oh	INNIO
⇒ Overhauling the exhaust-gas turbocharger	20,000 Oh / 5,000 starts / 5 years ¹⁾	INNIO
⇒ Replacing O-rings	20,000 Oh / 5 years	INNIO
⇒ Replacing the exhaust-gas turbocharger	60,000 Oh	INNIO
⇒ Inspecting the compressor side of the exhaust-gas turbocharger	Condition-dependent ²⁾	INNIO

¹⁾ 5 years only if the engine has been shut down for longer than 1 year.

²⁾ When required

Valid for:

- Type 3: Maintenance schedule A
- Type 4: Maintenance schedule A
- Type 6: Maintenance schedule A
- Natural gas

Maintenance work	Maintenance interval	Carried out by ¹⁾
⇒ Check that all the bolted joints/seals and covers sit properly.	2,000 Oh	INNIO
⇒ Overhauling the exhaust-gas turbocharger	10,000 Oh	INNIO
⇒ Replacing O-rings	10,000 Oh / 5 years	INNIO
⇒ Replacing the impeller	30,000 Oh	INNIO
⇒ Replacing the exhaust-gas turbocharger	60,000 Oh	INNIO
⇒ Inspecting the compressor side of the exhaust-gas turbocharger	Condition-dependent ¹⁾	INNIO

¹⁾ When required

Valid for:

- Type 3: Maintenance schedule A
- Type 4: Maintenance schedule A
- Type 6: Maintenance schedule A
- Non-natural gas

Maintenance work	Maintenance interval	Carried out by ¹⁾
⇒ Check that all the bolted joints/seals and covers sit properly.	3,333 Oh	INNIO
⇒ Overhauling the exhaust-gas turbocharger	20,000 Oh / 5,000 starts / 5 years ¹⁾	INNIO
⇒ Replacing O-rings	20,000 Oh / 5 years	INNIO
⇒ Replacing the exhaust-gas turbocharger	60,000 Oh	INNIO
⇒ Inspecting the compressor side of the exhaust-gas turbocharger	Condition-dependent ²⁾	INNIO

¹⁾ 5 years only if the engine has been shut down for longer than 1 year.

²⁾ When required

Valid for:

- Type 4: Maintenance schedule E
- Natural gas

Maintenance work	Maintenance interval	Carried out by ¹⁾
⇒ Check that all the bolted joints/seals and covers sit properly.	3,333 Oh	INNIO
⇒ Overhauling the exhaust-gas turbocharger	10,000 Oh	INNIO
⇒ Replacing O-rings	10,000 Oh / 5 years	INNIO
⇒ Replacing the impeller	30,000 Oh	INNIO
⇒ Replacing the exhaust-gas turbocharger	60,000 Oh	INNIO
⇒ Inspecting the compressor side of the exhaust-gas turbocharger	Condition-dependent ¹⁾	INNIO

¹⁾ When required

Valid for:

- Type 4: Maintenance schedule E
- Non-natural gas

Maintenance work	Maintenance interval	Carried out by ¹⁾
⇒ Check that all the bolted joints/seals and covers sit properly.	2,000 Oh	INNIO
⇒ Overhauling the exhaust-gas turbocharger	10,000 Oh	INNIO
⇒ Replacing O-rings	10,000 Oh / 5 years	INNIO
⇒ Replacing the impeller	30,000 Oh	INNIO
⇒ Replacing the exhaust-gas turbocharger	60,000 Oh	INNIO
⇒ Inspecting the compressor side of the exhaust-gas turbocharger	Condition-dependent ¹⁾	INNIO

¹⁾ When required

Valid for:

- Type 3: Maintenance schedule B Maintenance schedule D
- Type 4: Maintenance schedule B Maintenance schedule D
- Type 6: Maintenance schedule B Maintenance schedule D

Maintenance work	Maintenance interval	Carried out by ¹⁾
⇒ Check that all the bolted joints/seals and covers sit properly.	3,333 Oh	INNIO
⇒ Overhauling the exhaust-gas turbocharger	20,000 Oh / 5,000 starts / 5 years ¹⁾	INNIO
⇒ Replacing O-rings	20,000 Oh / 5 years	INNIO
⇒ Replacing the exhaust-gas turbocharger	60,000 Oh	INNIO
⇒ Inspecting the compressor side of the exhaust-gas turbocharger	Condition-dependent ²⁾	INNIO

¹⁾ 5 years only if the engine is stopped for longer than 1 year.

²⁾ When required

Valid for:

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

Maintenance work	Maintenance interval	Carried out by ¹⁾
⇒ Check that all the bolted joints/seals and covers sit properly.	3,333 Oh	INNIO
⇒ Overhauling the exhaust-gas turbocharger	10,000 Oh	INNIO
⇒ Replacing O-rings	10,000 Oh / 5 years	INNIO
⇒ Replacing the impeller	30,000 Oh	INNIO
⇒ Replacing the exhaust-gas turbocharger	60,000 Oh	INNIO
⇒ Inspecting the compressor side of the exhaust-gas turbocharger	Condition-dependent ¹⁾	INNIO

¹⁾ When required

Valid for:




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

***) 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

⚠ 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 2300-0010 – Guidelines for using the LOTO kit

6 Work steps**6.1 Inspecting the compressor side of the exhaust-gas turbocharger**

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

If required, e.g. in the event of a low compressor by-pass reserve at the full-load point, inspect the casing and diffuser ring of the exhaust-gas turbocharger for deposits.

If deposits are present, clean the exhaust-gas turbocharger.

6.2 Check that all the bolted joints/seals and covers sit properly.

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

6.3 Overhauling the exhaust-gas turbocharger

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

Remove the turbocharger and prepare it for shipping.

6.4 Replacing the impeller

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

6.5 Replacing the exhaust-gas turbocharger

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

6.6 Replacing O-rings

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
6	04.07.2019	Metadaten angepasst / Metadata adapted	Kecht S. <i>Boewing R.</i>
		Standard Peaking Wartungsintervall ergänzt / Standard peaking maintenance interval added	Leroux C. <i>Boewing R.</i>
5	28.02.2019	Strukturelle Anpassungen / Structural adaptations Arbeitsschritt „O-Ringe tauschen“ ergänzt / Work step „Replace O rings“ added	Leroux C. <i>Boewing R.</i>
4	30.09.2015	Intervall für Verdichterradtausch bei Erdgasanwendung von 40 000 auf 60 000 Bh angehoben / Interval of compressor wheel exchange for natural gas applications from 40,000 to 60,000 Oh.	Ruess A. <i>Boewing R.</i>
3	19.01.2015	Aktualisierung in Abstimmung mit dem Hersteller / Updated in accordance with manufacturer	Bilek <i>Neges</i>
2	09.01.2014	Verlängertes Wartungsintervall ergänzt / Extended service interval supplemented	Bilek <i>Anderson</i>
1	29.12.2010	Erstausgabe / First release	Bilek <i>Haidn</i>

