



IW 8047 A0

Maintenance Instruction

Overvoltage deflector



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1	Scope	1
2	Purpose.....	1
3	Maintenance interval.....	1
4	Safety information.....	2
5	Additional information.....	2
6	Checking the overvoltage deflector	2
7	Revision code.....	3

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Customers, distribution partners, service partners, commissioning partners, subsidiaries/branches, Jenbach location

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1 Scope

This Inspection- and Maintenance Instruction (IW) applies to the following Jenbacher Engines:

- Type 2 engines
- Type 3 engines
- Type 4 engines
- Type 6 engines

2 Purpose

This Inspection and Maintenance Instruction (IW) lays down the maintenance interval and describes the following activities:

- ⇒ Checking the overvoltage deflector

3 Maintenance interval



Maintenance work	Maintenance interval	Carried out by ¹⁾
⇒ Checking the overvoltage deflector	Daily	K

Valid for:

- Type 2: Maintenance schedule A Maintenance schedule B Maintenance schedule C
- Type 3: Maintenance schedule A Maintenance schedule B Maintenance schedule C Maintenance schedule D
- Type 4: Maintenance schedule A Maintenance schedule B Maintenance schedule D Maintenance schedule E Maintenance plan P
- Type 6: Maintenance schedule A Maintenance schedule B Maintenance schedule D

*) 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	
	<p>Personal injury</p> <p>Failure to use personal protective equipment and comply with safety instructions or employee protection information may lead to personal injury.</p> <ul style="list-style-type: none">➤ Wear the relevant personal protective equipment (PPE).➤ Observe the safety instructions as per TA 2300-0005.➤ Observe the employee protection information as per TA 2300-0001.

5 Additional information

Relevant documents:

TA 2300-0001 – Employee protection

TA 2300-0005 – Safety instruction

6 Checking the overvoltage deflector

Green panel overvoltage deflector - **OK**.

Red panel overvoltage deflector – **faulty**.



① Overvoltage deflector



Before replacing the overvoltage deflector, the fuses, varistors (overvoltage protection at generator set) and the rotating diodes should be checked first!

Check the varistors in the generator for scorch marks and short-circuiting

The overvoltage protection in the generator set is composed of a metal-oxide varistor, installed at the rotating diodes near the rotor, to prevent the overvoltages in the field coil from damaging the rotating diodes. This equipment is not polarised and shows a high resistance in both directions on a normal ohmmeter.

If defective, this would be evident during an inspection, since scorch marks would be apparent.

Replace the defective piece of equipment.

7 Revision code

Revision history

Index	Date	Description / Revision summary	Expert Auditor
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Revision history

2	30.04.2019	Strukturelle Anpassungen / Structural adaption GE durch INNIO ersetzt / GE replaced by INNIO	Fallzberger F. <i>Pichler R.</i>
1	26.05.2010	Umstellung auf CMS / Change to Content Management System ersetzt / replaced Index: a	Provin <i>Bilek</i>