



# IW 8048 A0

Maintenance Instruction

## Surge suppressor



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**The target recipients of this document are:**

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 <sup>1)</sup>
⇒ 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

 <b>WARNING</b>	
	<p><b>Personal injury</b></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"><li>➤ Wear the relevant personal protective equipment (PPE).</li><li>➤ Observe the safety instructions as per TA 2300-0005.</li><li>➤ Observe the employee protection information as per TA 2300-0001.</li></ul>

#### 5 Additional information

**Relevant documents:**

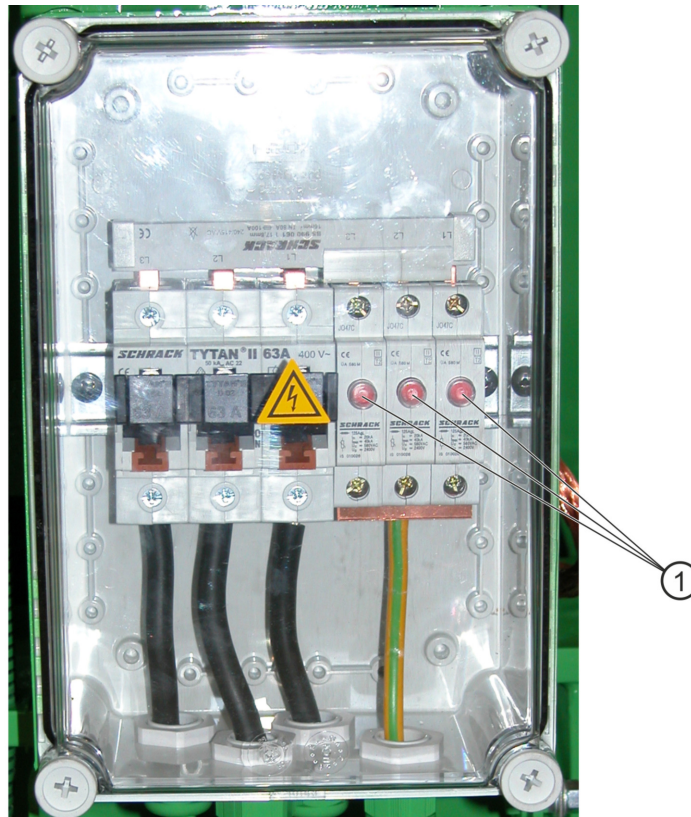
TA 2300-0001 – Employee protection

TA 2300-0005 – Safety instruction

#### 6 Checking the overvoltage deflector

**Fuses – red button "pushed in":** Overvoltage deflectors - **OK**.

**Fuses – red button "popped out":** Overvoltage deflectors - **defective**.



① Fuses



**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**

<b>Index</b>	<b>Date</b>	<b>Description / Revision summary</b>	<b>Expert Auditor</b>
2	30.04.2019	Strukturelle Anpassungen / Structural adaptations GE durch INNIO ersetzt / GE replaced by INNIO	<b>Fallzberger F.</b> <i>Pichler R.</i>
1	26.05.2010	Umstellung auf CMS / Change to <b>C</b> ontent <b>M</b> anagement <b>S</b> ystem ersetzt / replaced Index: -	<b>Provin</b> <i>Bilek</i>

