

# Fronius MTB 2x500i Testing System Instruction Manual

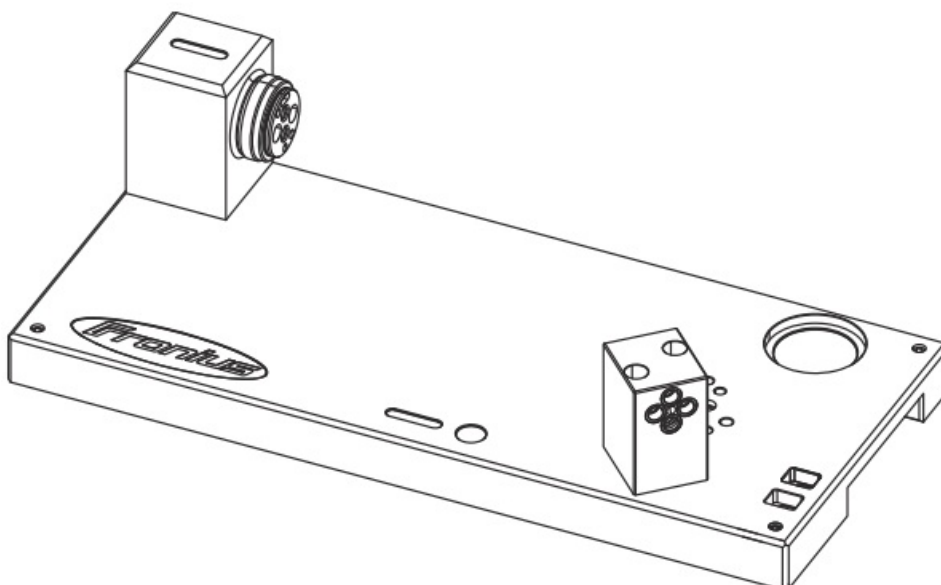
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## Fronius MTB 2x500i Testing System



## **Specifications:**

- Product: Testing system MTB 2x500i
- Series: MTB2x500i
- Function: Testing torch bodies for dimensional deviations

## **Product Usage Instructions**

### **The function of the testing system MTB 2x500i:**

Torch bodies of the MTB2x500i series can be tested for dimensional deviations using the testing system.

### **Calibrating the testing system:**

In order to achieve optimal test results with the testing system, it is recommended that the system is calibrated by Fronius on a yearly basis.

### **Scope of Delivery:**

- Testing system
- Wrench for union nut
- Union nut
- Locking ring
- Test adapter
- Register pins
- This document (not shown)

### **Safety:**

**WARNING!** Danger from incorrect operation and work that is not carried out properly. This can result in severe personal injury and damage to property. All the work and functions described in this document must only be carried out by a Fronius service technician. Read and understand this document. Read and understand all the Operating Instructions for the system components, especially the safety rules.

**WARNING!** Danger from electrical current. Serious injuries or death may result. Before starting work, switch off all devices and components involved, and disconnect them from the grid. Secure all devices and components involved so they cannot be switched back on. After opening the device, use a suitable measuring instrument to check that electrically charged components (such as capacitors) have been discharged.

**CAUTION!** Danger due to hot system components and hot coolant. Serious burns may result.

### **Testing the Torch Body:**

#### **Preparing the testing system for testing a torch body:**

1. If necessary, adjust the position of the testing unit to correspond to the torch body curvature.
2. Insert the register pins for the respective torch body into the testing unit:
  - Alignment PA

- Alignment PB

### Testing a Welding Torch with PA Alignment:

If the register pins glide into the test adapter without any resistance, the welding torch has a TCP accuracy of 1 mm (0.04 inch).

### Frequently Asked Questions

- **Q: How often should the testing system be calibrated?**

- A: It is recommended to calibrate the testing system by Fronius on a yearly basis for optimal test results.

### General

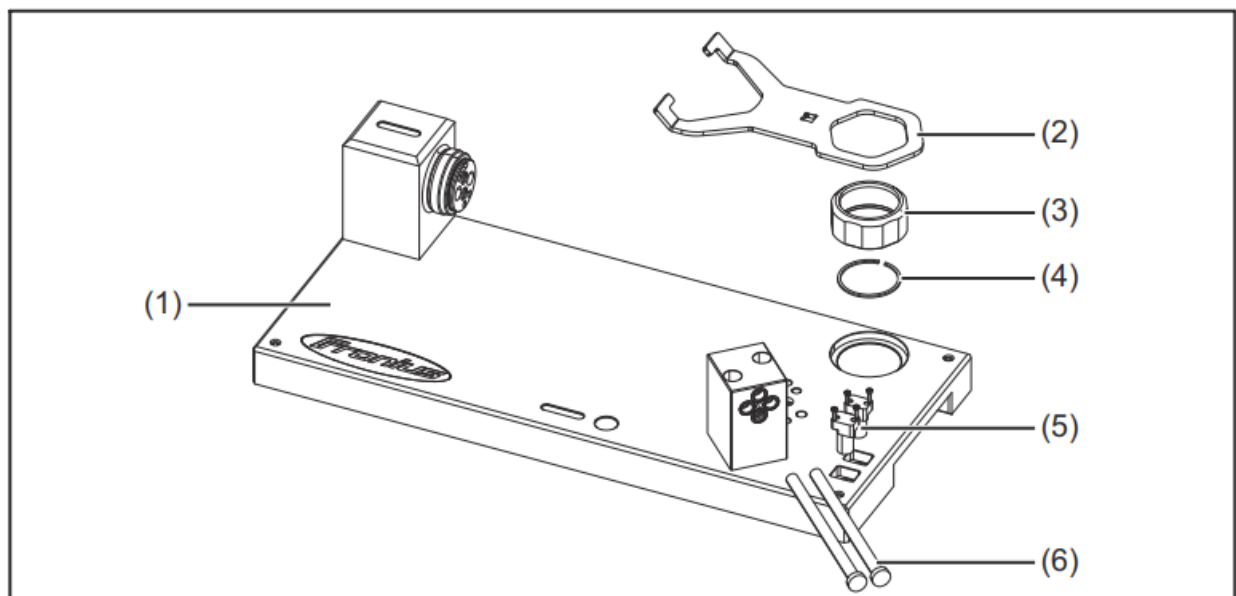
- **The function of the testing system MTB 2x500i**

- Torch bodies of the MTB2x500i series can be tested for dimensional deviations using the testing system.

- **Calibrating the testing system**

- In order to achieve optimal test results with the testing system, it is recommended that the system is calibrated by Fronius on a yearly basis.

### Scope of delivery



1. Testing system
2. Wrench for union nut
3. Union nut
4. Locking ring
5. Test adapter
6. Register pins
7. This document (not shown)

### Safety

## **WARNING!**

Danger from incorrect operation and work that is not carried out properly.

This can result in severe personal injury and damage to property.

- All the work and functions described in this document must only be carried out by a Fronius service technician.
- Read and understand this document.
- Read and understand all the Operating Instructions for the system components, especially the safety rules.

## **WARNING!**

Danger from electrical current.

Serious injuries or death may result.

- Before starting work, switch off all devices and components involved, and disconnect them from the grid.
- Secure all devices and components involved so they cannot be switched back on.
- After opening the device, use a suitable measuring instrument to check that electrically charged components (such as capacitors) have been discharged.

## **CAUTION!**

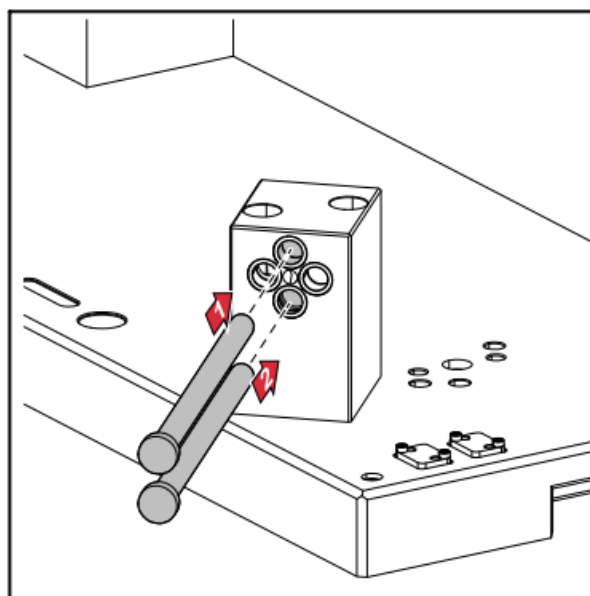
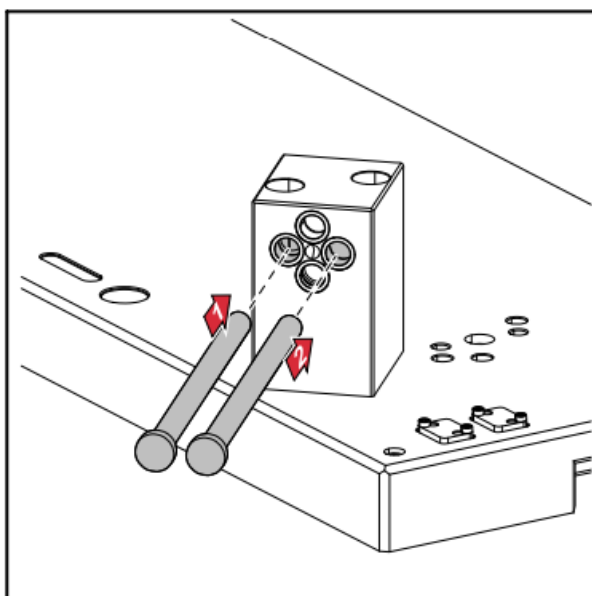
Danger due to hot system components and hot coolant. Serious burns may result.

- Only perform all work described below when the coolant has cooled down to room temperature (+25 °C, +77 °F).
- Only perform all work described below when the system components have cooled down to room temperature (+25 °C, +77 °F).

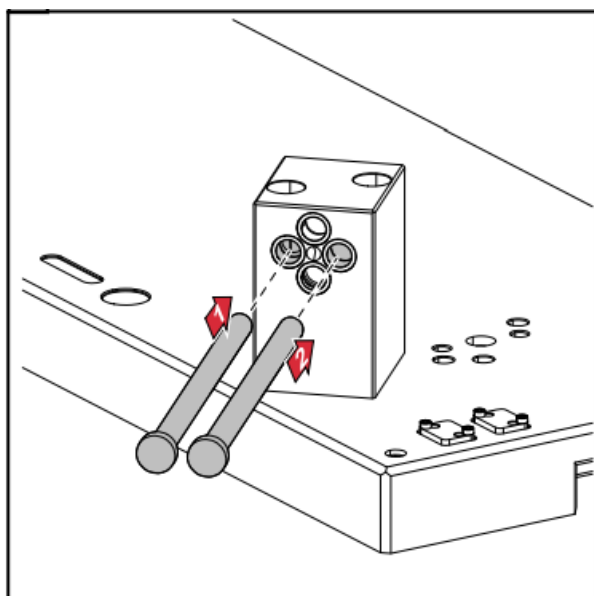
## **Testing the torch body**

### **Preparing the testing system for testing a torch body**

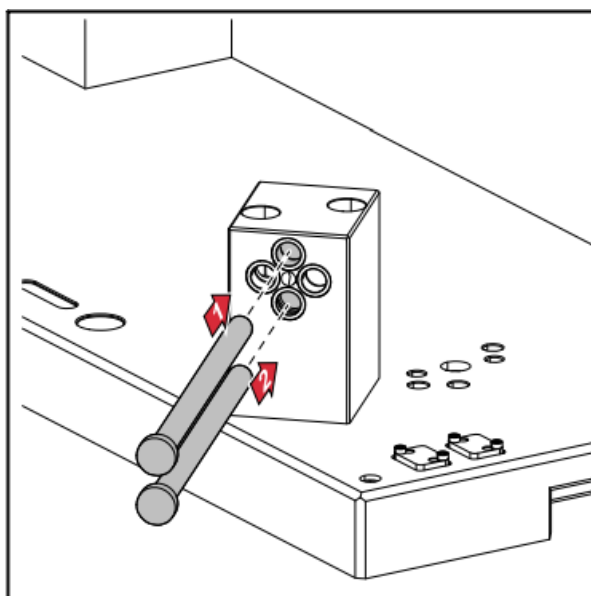
1. If necessary, adjust the position of the testing unit to correspond to the torch body curvature
  - The testing unit for testing a torch body with a 45° angle is pre-mounted when delivered



2. Insert the register pins for the respective torch body into the testing unit:

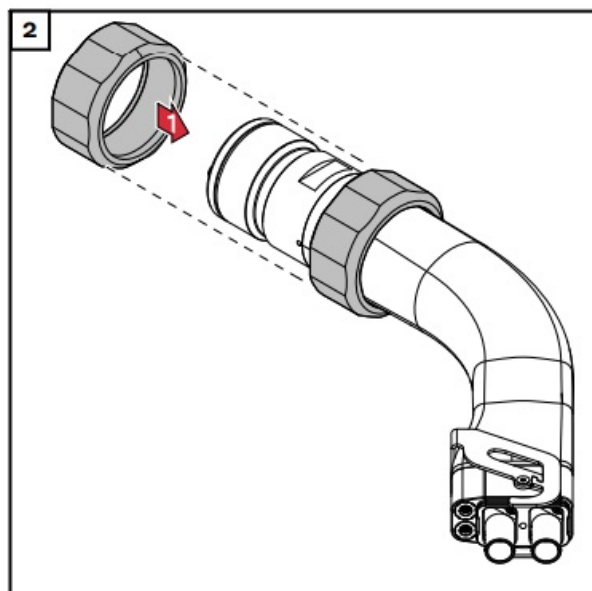
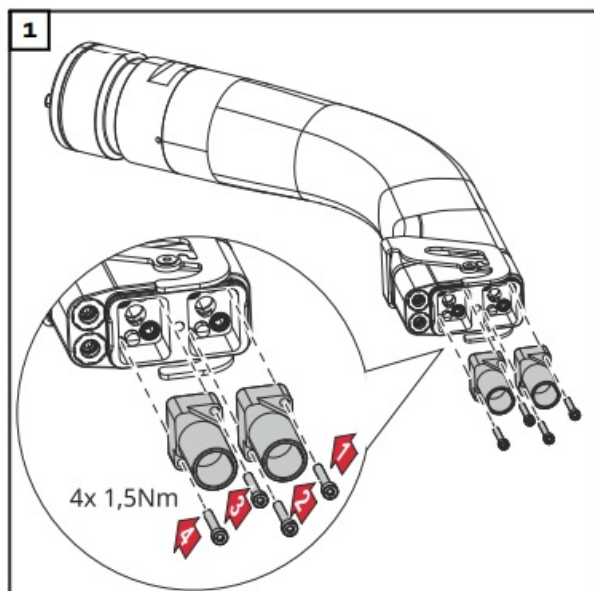


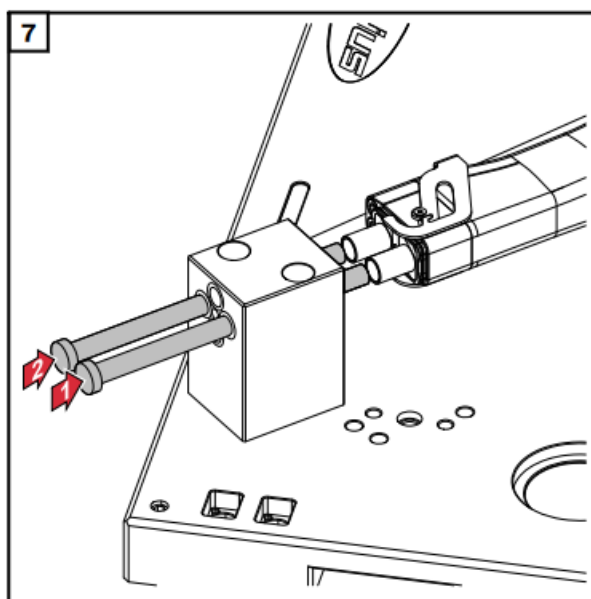
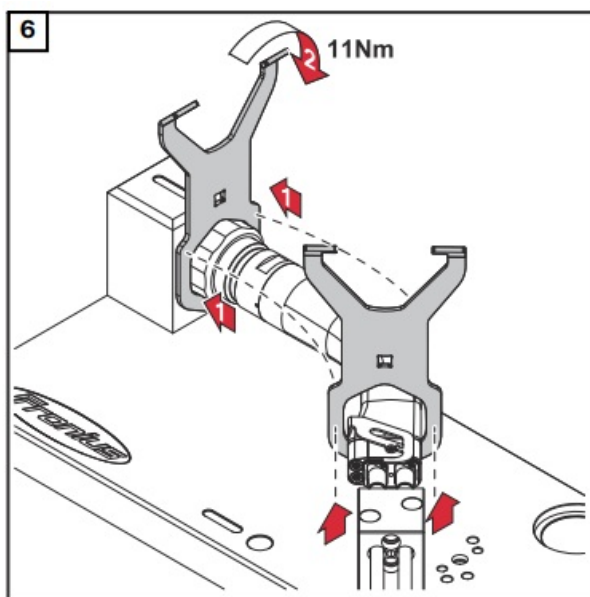
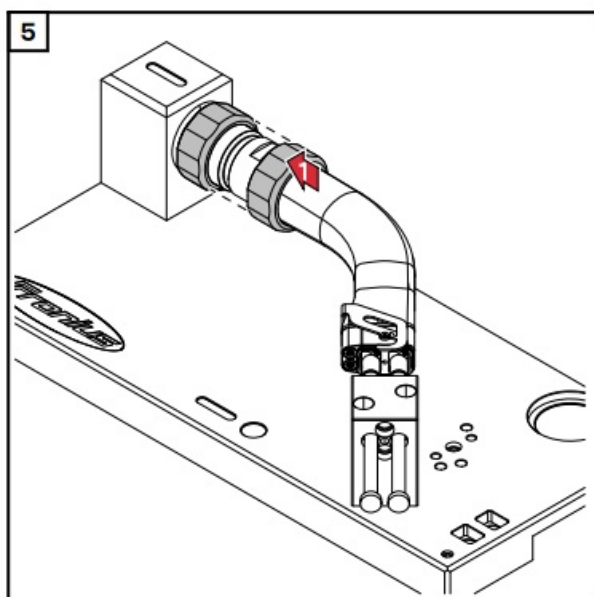
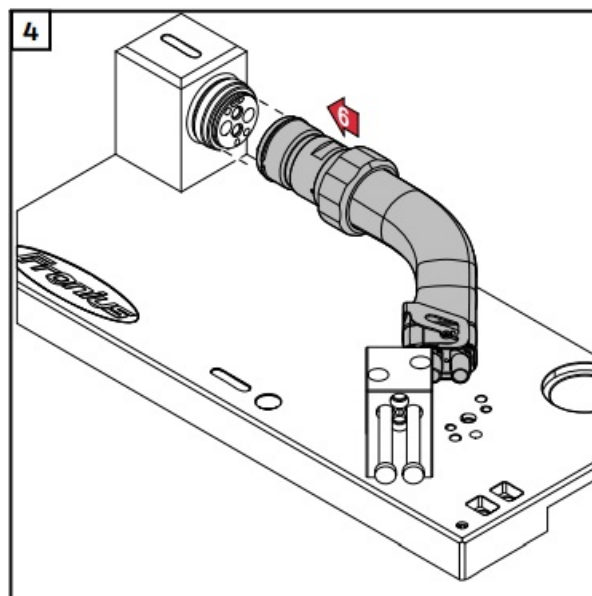
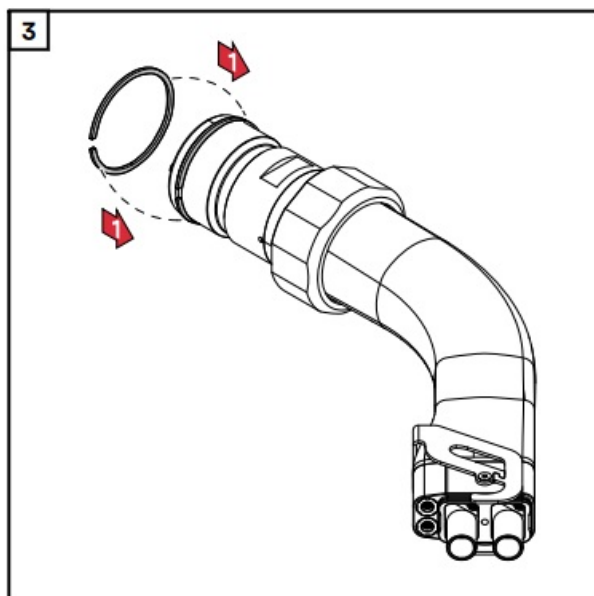
*Alignment PA*



*Alignment PB*

### Testing a welding torch with PA alignment





If the register pins glide into the test adapter without any resistance, the welding torch has a TCP accuracy of 1 mm (0.04 inch)



[spareparts.fronius.com](https://spareparts.fronius.com)


## SPARE PARTS

### ONLINE

- Fronius International GmbH
- Froniusstraße 1
- 4643 Pettenbach
- Austria
- [contact@fronius.com](mailto:contact@fronius.com)
- [www.fronius.com](https://www.fronius.com)

At [www.fronius.com/contact](https://www.fronius.com/contact) you will find the contact details of all Fronius subsidiaries and Sales & Service Partners.

## Documents / Resources

	<p><a href="#">Fronius MTB 2x500i Testing System</a> [pdf] Instruction Manual MTB 2x500i, MTB 2x500i Testing System, MTB 2x500i Testing, Testing System, Testing</p>
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## References

-  [Fronius Spare Parts](#)
- [User Manual](#)

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