



Edition

08/2024

RECYCLER GUIDE

# SIMATIC

ET 200SP

Electronic modules

Reference product: 6ES7136-6DB00-OCA0

This document covers all variants in the range 6ES713.-6....-.... and 6AG.13.-6....-....

# SIEMENS

## SIMATIC

### ET 200SP Recycler Guide for SIMATIC ET200SP electronic modules

#### Product Information

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## Legal information

### Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

#### **DANGER**

indicates that death or severe personal injury **will** result if proper precautions are not taken.

#### **WARNING**

indicates that death or severe personal injury **may** result if proper precautions are not taken.

#### **CAUTION**

indicates that minor personal injury can result if proper precautions are not taken.

#### **NOTICE**

indicates that property damage can result if proper precautions are not taken.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

### Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

### Proper use of Siemens products

Note the following:

#### **WARNING**

Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

### Trademarks

All names identified by ® are registered trademarks of Siemens Aktiengesellschaft. The remaining trademarks in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owner.

### Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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## About this guide

In order to conserve important resources, we work on reducing the materials we use and supporting the recycling economy right from the product design stage. An important way to achieve this goal is the resource recovery of electronic products at the end of their service life.

The Siemens Recycler Guides provide recyclers of electronic products with instructions on how to disassemble products safely in order to maximize resource recycling. The Recycler Guides provide step-by-step disassembly instructions and material composition information to help recyclers direct specific materials to specialized recyclers.

Disassembly may only be carried out by specialists trained in the recycling of electronic devices. The recycler is responsible for independently evaluating and ensuring compliance with all applicable environmental, health and safety regulations. This includes, among other things, the legal requirements in the area of management, handling, shipping and disposal as well as applicable laws to ensure the health and safety of all employees involved.

If you have any questions or feedback regarding this Recycler Guide, please use this address: [recycling@siemens.com](mailto:recycling@siemens.com)

## Safety instructions

The recycler is responsible for independently evaluating all activities of its employees in performing or supporting the work and ensuring compliance with all applicable legal requirements. This includes, but is not limited to, laws regarding the health and safety of all employees performing or assisting in that work. The recycler is also responsible for assessing the workplace and ensuring that the area in which the work is carried out meets all ergonomic requirements to ensure the protection of its employees.

### Danger notice (DIN EN ISO 7010)



Warning against hand injuries



Warning against pointed/sharp objects

Wear personal protective equipment throughout the recycling process.



Wear hand protection



Wear a mask



Wear eye protection



Wear foot protection



Wear protective clothing

## Recommended tool

For the disassembly of the product, we recommend using the following tool:

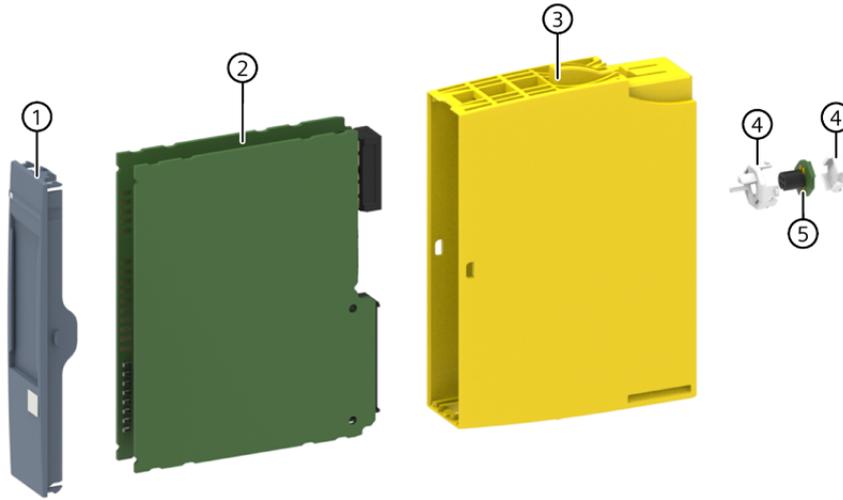


Slotted screwdriver

## Disassembly instructions

The following guide provides detailed information on how to disassemble the product at the end of its service life and on what materials you can collect and recycle. In doing so, you support the recycling economy.

### Components of the product

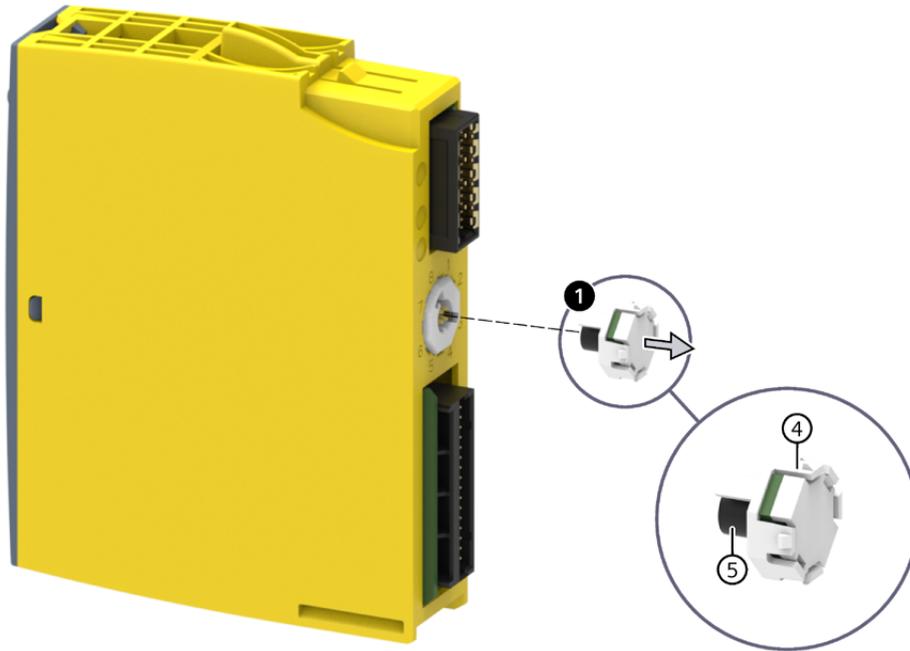


Position	Part	Material	Disassembly step
1	Front cover	Thermoplastic	Step 4
2	Assembled PCB	Electronics	Step 5
3	Housing	Thermoplastic	Step 5
4	Enclosure for electronic coding element	Thermoplastic	Steps 1 and 3
5	Printed circuit board	Electronics	Steps 1 and 3

## Dismantling the product

Follow these steps for disassembly:

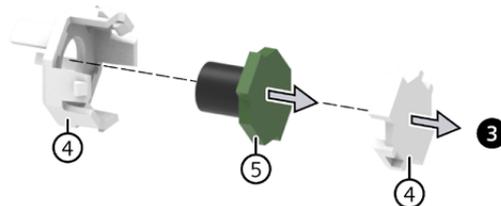
1. If present, remove the electronic coding element (4) and (5).  
In the case of mechanical coding, (5) is not included.



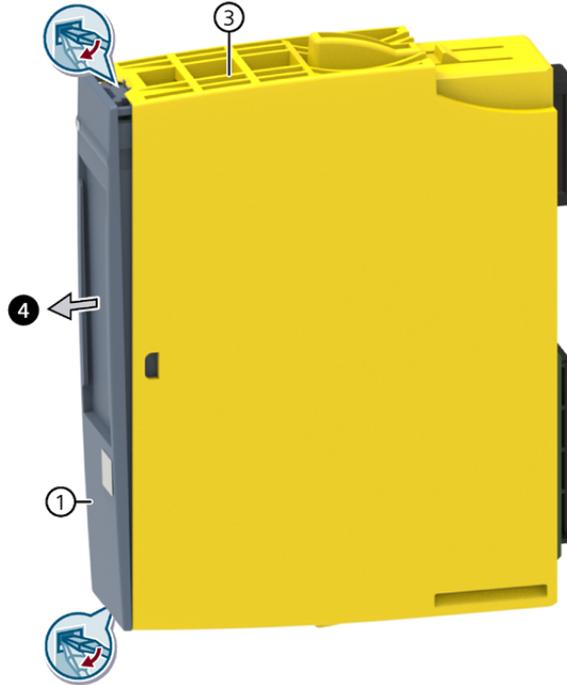
2. Remove the cover of the electronic coding element with a slotted screwdriver.



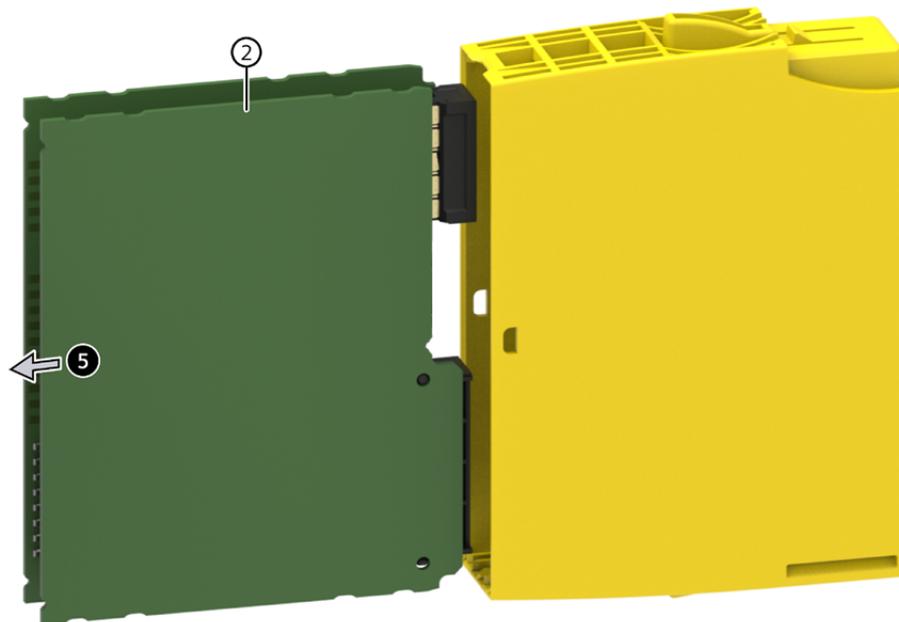
3. Pull out the printed circuit board (5).



4. Remove the front cover (1) by pressing into the snap locks with a slotted screwdriver.



5. Pull out the printed circuit board(s) (2), of which there may be one or two. The housing may be yellow or gray.



## Explanation of substances and components

### Components according to Directive 2012/19/EU Annex VII

You must remove at least the following substances, mixtures and components from the product:

Substance/mixture/component	Position	Disassembly step
Printed circuit boards with a surface area greater than 10 cm <sup>2</sup>	2	Step 5
Plastic with brominated flame-retardants	2, 5	Steps 3, 5

### Additional information

In order to support the recycling economy, SIEMENS creates transparency that goes beyond the regulatory requirements. See the table for additional information on smaller printed circuit boards or displays, as well as metal alloys containing elements that may be critical at the end of the service life, such as beryllium or lead.

This information does not fall within the scope of Annex VII of Directive 2012/19/EU.

Substance/mixture/component	Position	Disassembly step
Printed circuit boards with a surface area less than 10 cm <sup>2</sup>	5	Step 3

## Received material fractions

All results from this process must be managed, handled, and disposed of in accordance with applicable waste laws and regulations including, but not limited to, the Waste Framework Directive and its national legislation in Europe and worldwide.

The following table contains the main material fractions. The table does not claim to be complete.

Position	Possible material fractions (not exhaustive)
1, 3, 4	Polycarbonate
2, 5	Copper, precious metals, tin

## Disclaimer of liability

The Recycler Guide is for information purposes only.

This Recycler Guide does not guarantee the composition of any product or that the product will retain a specific composition for a specific period of time. Therefore, all warranties, assurances, conditions implied by statute or common law are excluded to the fullest extent permitted by applicable law.

The Recycler Guide provides information about the disassembly process of an appliance so that the components can be assigned to the correct recycling channels. Reuse of dismantled components is not permissible.

**Siemens therefore assumes no liability for errors or consequences that may result from the use of this information to the greatest possible legal extent.**

Please note that the data in this Recycler Guide cannot be compared to data calculated based on product category rules (PCRs) other than the above standards. The values given are only valid in the specified context and cannot be used directly to create the environmental compatibility assessment of a plant.