




This guide provides instructions for installing the CANbus communication module (V100-17-CAN (CANbus), V100-S-CAN (CANbus-Wide Temperature)) in a Vision130™ or Vision350™ or Vision430™ or SM35™ or SM43™ or SM70™ controller.

### Danger Symbols

When any of the following symbols appear, read the associated information carefully.


| Symbol   | Meaning | Description   |
|--|---------|---|
|  | Danger  | The identified danger causes physical and property damage.      |
|  | Warning | The identified danger could cause physical and property damage. |
| Caution  | Caution | Use caution.  |

- Before using this product, the user must read and understand this document.
- All examples and diagrams are intended to aid understanding, and do not guarantee operation. Unitronics accepts no responsibility for actual use of this product based on these examples.
- Please dispose of this product according to local and national standards and regulations.
- Only qualified service personnel should open this device or carry out repairs.

 Failure to comply with appropriate safety guidelines can cause severe injury or property damage.

- Do not attempt to use this device with parameters that exceed permissible levels.
- To avoid damaging the system, do not connect/disconnect the device when power is on.

### Environmental Considerations

 Do not install in areas with: excessive or conductive dust, corrosive or flammable gas, moisture or rain, excessive heat, regular impact shocks or excessive vibration.

- Do not place in water or let water leak onto the unit.
- Do not allow debris to fall inside the unit during installation.

### General

- Turn off power before making communications connections.
- Do not touch live wires

- Unused pins should not be connected. Ignoring this directive may damage the device.
- Double-check all wiring before turning on the power supply.

### Installation Instructions

- Before performing these actions, touch a grounded object to discharge any electrostatic charge.
- Avoid touching the PCB board directly. Hold the PCB board by its connectors.

- Caution
- Installing modules also requires you to remove and replace PCB boards already installed in the controller.
  - Make certain that the pins fit correctly into their matching receptacle.

## Installation in a V130/V350/SM35 controller

### Opening the Controller

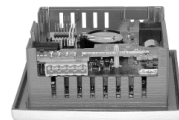
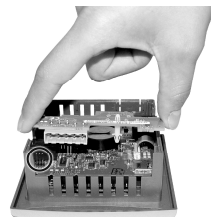
1. Turn off the power supply, disconnect, and dismount the controller.
2. The back cover of the controller comprises 4 screws, located in the corners. Remove the screws, and pull off the back cover.
3. Hold the I/O PCB board by its top and bottom connectors and steadily pull the board off.



Note that if you are installing both a V100-17-CAN, V100-S-CAN module and either V100-17-RS4/X or V100-17-ET2, V100-S-ET2 or V100-17-PB1 modules, you should install the V100-17-RS4/X or V100-17-ET2, V100-S-ET2 or V100-17-PB1 modules **first**.

### Installing V100-17-CAN, V100-S-CAN

1. Remove the plastic tab marked X.
2. Plastic tab X comprises a cutout that covers the CANbus port location. Snip through the cutout holders and remove the cutout.
3. On the V100-17-CAN, V100-S-CAN, locate the:
  - white plastic pin. The main board comprises an insertion point for this pin.
  - 6-pin female CANbus connector. The main board comprises a male 6-pin CANbus connector.
4. Insert the module as shown in the accompanying figure.

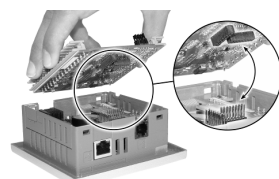


|         |  |
|---------|--|
| Caution | Make certain that the pins fit correctly into their matching receptacle. |
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5. When the module is properly installed in the controller, it is held in place by the white plastic pin.
6. Replace the plastic tab marked X and then close the controller as shown below.  
Note that in order to remove the module; you must compress the ends of the white pin with a pair of pliers while pulling the module out of the controller.

### Closing the controller

1. Replace the I/O board.
2. Close the controller by snapping the plastic cover back in its place. If the card is placed correctly, the cover will snap on easily.
3. Replace the screws in the corners of the back cover.



### Installation in a V430/SM43 controller

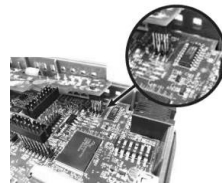
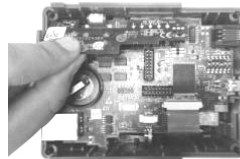
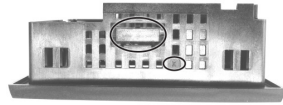
#### Opening the Controller

1. Turn off the power supply, disconnect and dismount the controller.
2. The back cover of the controller comprises 4 screws, located in the corners. Remove the screws, and pull off the back cover.
3. Hold the I/O PCB board by its top and bottom connectors and steadily pull the board off.



#### Installing V100-17-CAN, V100-S-CAN

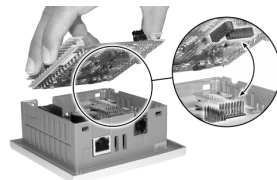
1. Break the plastic tab marked X.
2. Plastic tab X comprises a cutout that covers the CANbus port location.
3. locate the white plastic pin and remove it by compressing the ends of the white pin with a pair of pliers.
4. Insert the module as shown in the accompanying figure. 6-pin female CANbus connector. The main board comprises a male 6-pin CANbus connector.



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| <b>Caution</b> | Make certain that the pins fit correctly into their matching receptacle. |
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#### Closing the controller

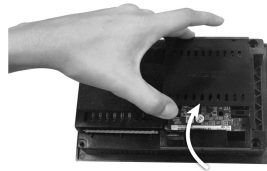
1. Replace the I/O board.
2. Close the controller by snapping the plastic cover back in its place. If the card is placed correctly, the cover will snap on easily.
3. Replace the screws in the corners of the back cover.



## Installation in a SM70 controller

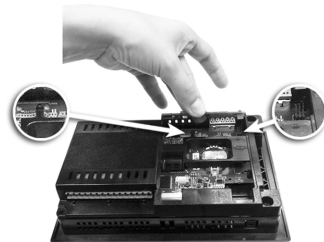
### Opening the Controller

1. Open the door marked "Battery & Communication Module Cover", under the arrow direction.
2. Break the plastic tab marked X.
3. Plastic tab X comprises a cutout that covers the CANbus port location.



### Installing V100-17-CAN, V100-S-CAN

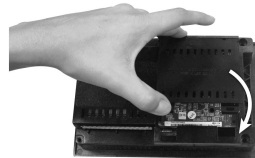
1. locate the black plastic pin.
2. Install the module as shown in the accompanying figure 6-pin female CANbus connector. The main board comprises a male 6-pin CANbus connector



|         |   |
|---------|---|
| Caution | Make certain that the pins fit correctly into their matching receptacle |
|---------|---|

### Closing the controller

1. Close the controller by closing the Door marked "Battery & Communication Module Cover" back in its place.



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