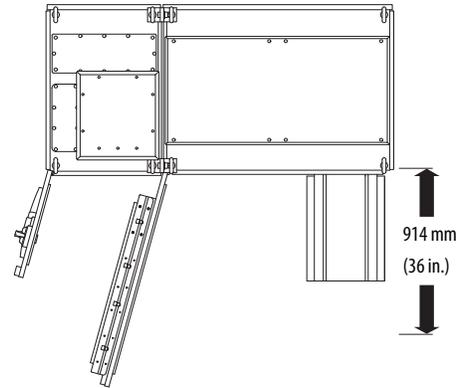


# PowerFlex 755T Power Module Service Ramp Instructions

Catalog Number 20-750-MRAMP1

Topic	Page	Topic	Page
Service Ramp Components	2	Power Module Removal	3
Service Ramp Setup	2	Temporary Power Module Storage	5
Aisle Clearance	2	Power Module Installation	6
Before You Open the Power Cabinet	3	Service Ramp Storage Recommendations	7
Power Module Handling	3	Service Ramp Maintenance	7



The PowerFlex® 750-Series service ramp is designed for removing and installing most power modules that are used with PowerFlex 750-Series products with TotalFORCE™ control. The ramp is intended to be used with floor level cabinets. The ramp is not intended for use with curb or recessed cabinet configurations. The maximum weight capacity of the service ramp is 149.68 kg (330 lb). Only use this service ramp for its intended purpose.



**ATTENTION:** Avoid personal injury or equipment damage. Two people are required when using the ramp to remove or install a power module.



**ATTENTION:** Avoid personal injury or equipment damage. Do not use ramp with LCL filter modules.

**IMPORTANT** The service ramp is intended for power module removal and installation only. For transportation of the power module, always use the service cart. See PowerFlex 750-Series Service Cart and DC Precharge Module Lift, publication [750-IN105](#), for information on the PowerFlex 750-Series Service Cart.

## Summary of Changes

This publication contains new and updated information as indicated in the following table.

Topic	Page
Removed catalog numbers.	All
Updated style and standards.	All

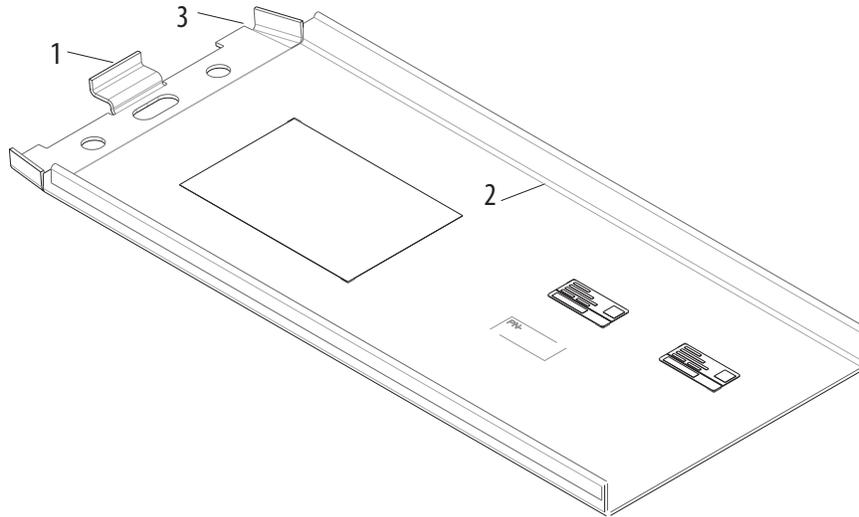
## Service Ramp Components

The service ramp is designed with the following:

Grade 50 (G90) galvanized steel material
Hinge Safety Lock

CE conformity with the following European Directive:
• Machinery Directive (2006/42/EC)

Item	Description
1	Hinge
2	Guard Rail
3	Alignment Guide

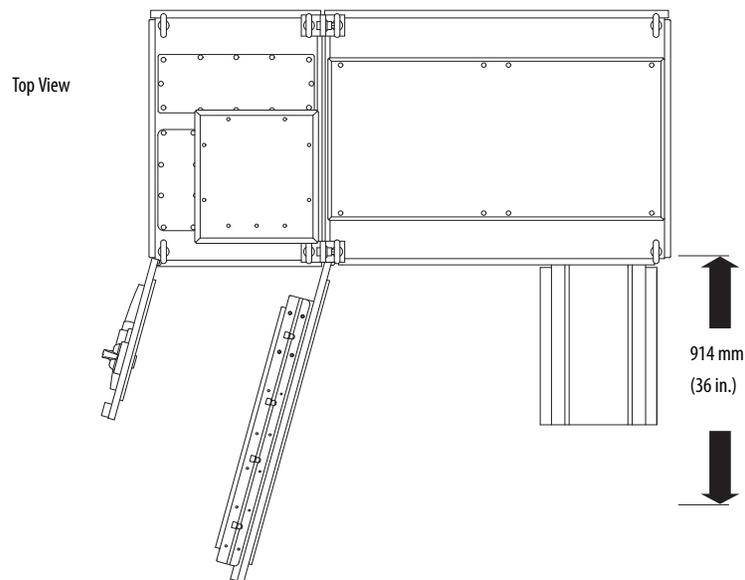


## Service Ramp Setup

Remove all packaging and inspect the service ramp for any damage or distortions. Read the labels that are attached to the ramp.

## Aisle Clearance

A minimum 914 mm (36 in.) wide aisle is required to be able to position the service ramp to install or remove a power module.



## Before You Open the Power Cabinet



**ATTENTION:** Avoid personal injury and/or equipment damage. This manual is intended for qualified service personnel responsible for installing and servicing these devices. You must have previous experience and a basic understanding of electrical terminology, configuration procedures, required equipment, and safety precautions.

See the PowerFlex 750-Series Products with TotalFORCE Control Hardware Service Manual, publication [750-TG100](#), for the following information:

- How to remove power from the system
- AC input and DC bus voltage test-points
- Provided lockout provisions

## Power Module Handling



**ATTENTION:** Hazards of pinch point injury exist. Review all product labels and familiarize yourself with the potential pinch point hazards before you use the service ramp. Use caution when raising and lowering the ramp and when installing or removing the module. Do not place your hands or feet near pinch points during installation.

This label, affixed to the module chassis, identifies the center of gravity.



**ATTENTION:** Power modules have a high center of gravity and a tip-over hazard exists. To guard against death, serious personal injury, or equipment damage, do not subject the module to high rates of acceleration or deceleration while transporting. Do not push or pull above the points that are indicated on the module.

**ATTENTION:** Avoid personal injury and/or equipment damage. Two people are required when using the ramp to install or remove a power module.

**IMPORTANT** Take precautions when you move a module:

- Only move a module a short distance to gain access to the cabinet interior or to service the module.
- Always use the service cart when transporting the module, see the PowerFlex 750-Series Service Cart, publication [750-IN105](#).
- Only use the service ramp on a smooth and level surface.
- Maintain a path for the power module that is clear of debris and obstacles.
- Always move the power module slowly.
- When moving the power module, stand at the sides of the module.

## Power Module Removal

Consult one of the following publications for instructions on how to prepare power modules for removal:

- PowerFlex 750-Series Products with TotalFORCE Control Installation Instructions, publication [750-IN100](#)
- PowerFlex 750-Series Products with TotalFORCE Control Hardware Service Manual, publication [750-TG100](#)

Follow these steps to remove the power module.

1. To disconnect the required wiring harnesses, fiber-optic cables, and power and ground connections, follow the instructions provided in PowerFlex 750-Series Products with TotalFORCE Control Installation Instructions, publication [750-IN100](#) and the PowerFlex 750-Series Products with TotalFORCE Control Hardware Service Manual, publication [750-TG100](#).



**ATTENTION:** Complete [step 4](#) before you remove the bolts that anchor the power module to the cabinet floor. Be sure that the ramp is locked into the cabinet floor before you remove the anchor bolts.

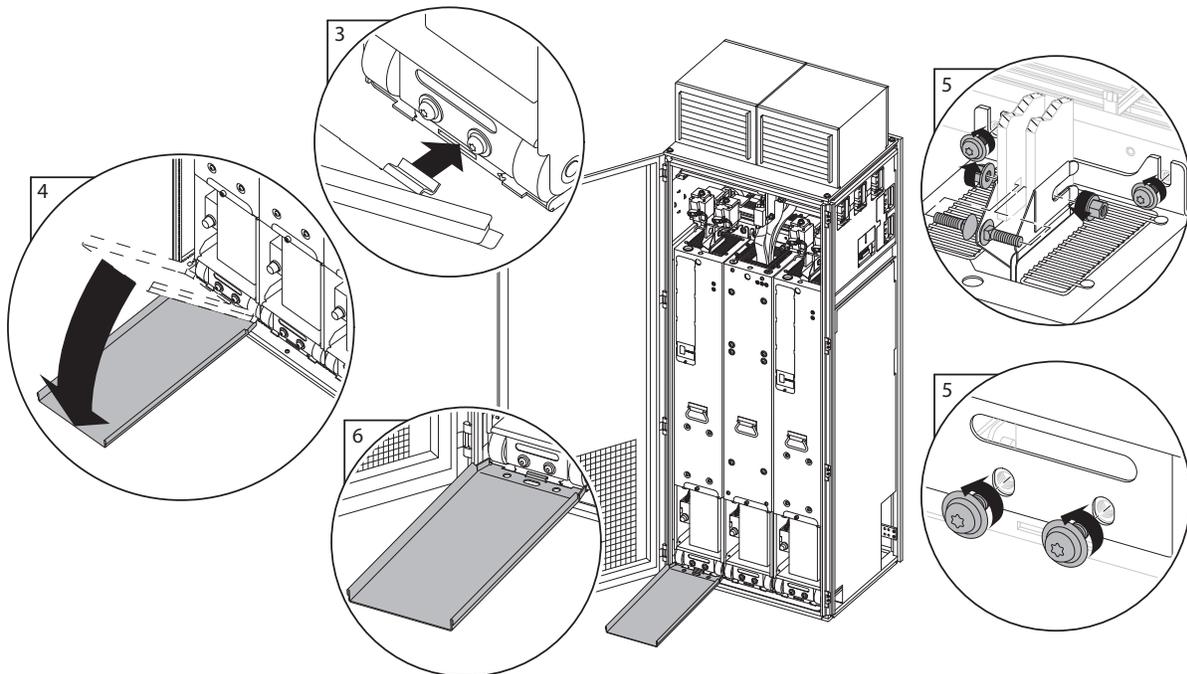
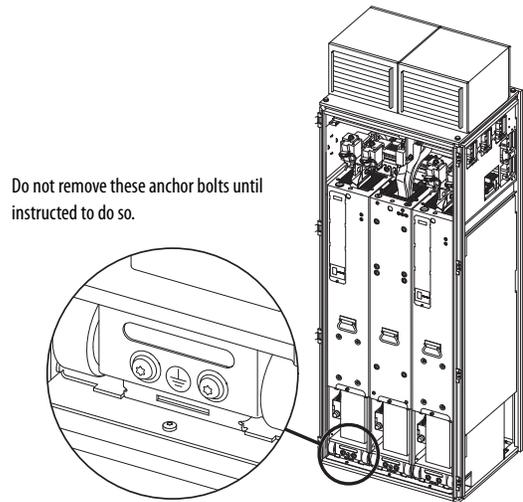
2. Remove all debris, cabling, and obstructions from the front of the cabinet and the anticipated path of the module. Verify that all cables are secured away from the path of removal.

**IMPORTANT** A level surface clear of debris and obstruction is required for service ramp usage.

3. Insert the ramp hinge into the flange at the front of the control cabinet.  
The ramp must be at an approximate 90° angle for the hinge lock into the flange correctly.
4. With the hinge properly placed, lower the ramp to the floor, and verify that it lays flat and is clear of debris.
5. To release the module, remove the upper and lower anchor bolts.
6. Align the ramp with the prepared power module.



**ATTENTION:** Power modules have a high center of gravity and a tip-over hazard exists. To guard against death, serious personal injury, or equipment damage, do not subject the module to high rates of acceleration or deceleration while transporting. Do not push or pull above the points that are indicated on the module.

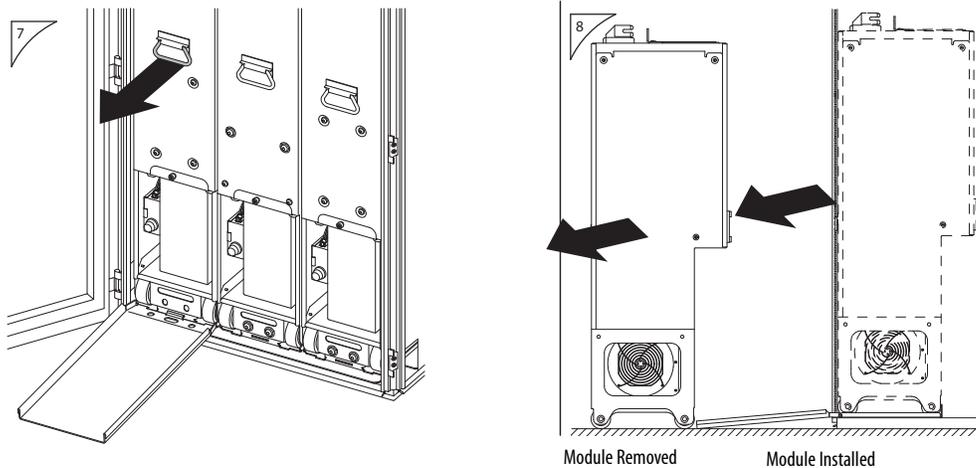


7. With two people, use the handle that is provided to move the module down the ramp.



**ATTENTION:** Avoid personal injury and/or equipment damage. The module is heavy and gravity takes over as the module is removed.

8. Use the handle on the power module to extract the power module until all four wheels reach the floor.



**ATTENTION:** Power modules have a high center of gravity and a tip-over hazard exists. Use the handles that are provided on the power module for installation and removal. Only use the ramp to removed power modules mounted at floor level.

9. Remove the service ramp. See the images for [step 3](#)...[step 4](#) for more information.

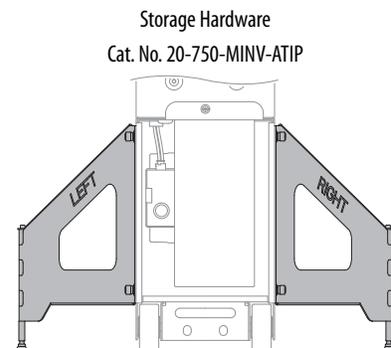
## Temporary Power Module Storage

Use caution when handling power modules for service or for temporary storage. It is recommended to use the anti-tip module storage hardware, 20-750-MINV-ATIP, for stabilization during storage. See the PowerFlex 755TM Power and Filter Module Storage Hardware Installation Instructions, publication [750-IN106](#).

**IMPORTANT** Always attach PowerFlex 755TM power and filter module storage hardware that is shown at right to help stabilize modules during storage.

Choose a suitable storage location for the module:

- The surrounding atmosphere must not contain volatile or corrosive gas, vapors, or dust.
- The surrounding atmosphere **must not** contain conductive pollution.
- Surrounding air temperature is -40...+70 °C (-40...+158 °F).
- Do not store modules in active aisles and work areas.
- Store modules on a smooth and level surface that is clear of debris and obstacles.
- Avoid sloped and rough surfaces.



Storage hardware is not included with service ramp.

## Power Module Installation

Consult one the following publications for instructions on how to prepare power modules for installation:

- PowerFlex 750-Series Products with TotalFORCE Control Installation Instructions, publication [750-IN100](#)
- PowerFlex 750-Series Products with TotalFORCE Control Hardware Service Manual, publication [750-TG100](#)

Follow these steps to install a power module.

1. Remove all debris, cabling, and obstructions from the front of the cabinet and the anticipated path of the module.
2. Verify that all cables are secured away from the path of installation.

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**IMPORTANT** A level surface clear of debris and obstruction is required for service ramp usage.

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3. Insert the hinge of the ramp into the flange that is mounted into the floor at the front of the control cabinet.  
The ramp must be at an approximate 90° angle to have the hinge lock into the flange correctly.
4. With the hinge properly placed, lower the ramp to the floor. Be certain that the ramp lays flat and is clear of debris.

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**IMPORTANT** On new modules, there is a piece of tape on the stab bars that must be removed before installation.

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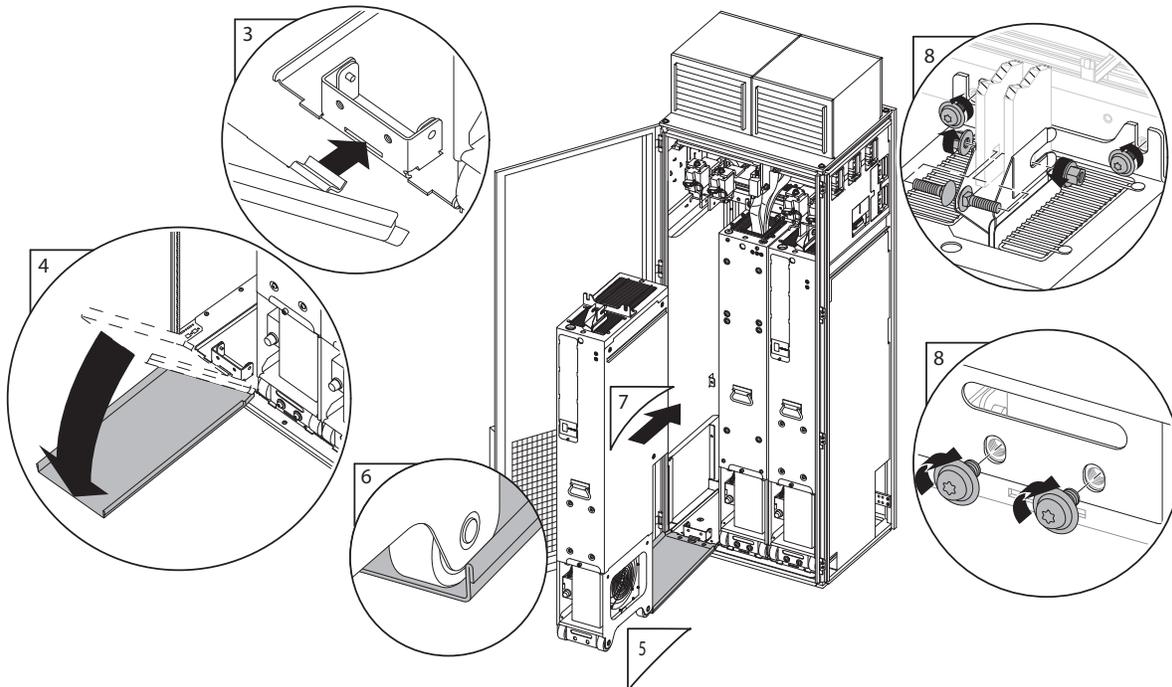
5. Align the ramp with the prepared module.



**ATTENTION:** Power modules have a high center of gravity and a tip-over hazard exists. To guard against death, serious personal injury, or equipment damage, do not subject the module to high rates of acceleration or deceleration while installing. Do not push or pull above the points that are indicated on the module. Do not use excessive force. Do not attempt to push the module with your feet. Always install module with two people.



**ATTENTION:** Hazards of pinch point injury exist when using service ramp. Review all product labels and familiarize yourself with the potential pinch point hazards before you install the service ramp. Use caution when raising and lowering the ramp and when installing the module. Do not place your hands or feet near pinch points during installation.



6. When the module is aligned to the ramp, and with a person on each side of the module, lift the back wheels of the module onto the ramp.

- Use a steady motion to push the module up the ramp and into the control cabinet.

The module is secured in the cabinet when a click is heard. The wheel guides on the ramp create proper alignment for the module to enter the cabinet.

- To secure the module, insert the upper and lower anchor bolts.
- To connect the required wiring harnesses, fiber-optic cables, and power and ground connections. Follow the instructions provided in the installation instructions in the PowerFlex 750-Series Products with TotalFORCE Control Installation Instructions, publication [750-IN100](#) and the PowerFlex 750-Series Products with TotalFORCE Control Hardware Service Manual, publication [750-TG100](#).

## Service Ramp Storage Recommendations

Choose a suitable storage location for the ramp:

- The surrounding atmosphere must not contain volatile or corrosive gas, vapors, or dust.
- The surrounding atmosphere must not contain conductive pollution.
- Surrounding air temperature: -40...+70 °C (-40...+158 °F).
- Relative humidity: 5...95% noncondensing.
- Store ramp on a level surface clear of debris and obstacles.

## Service Ramp Maintenance

Inspect the service ramp for damage or excessive wear before each use. Check for cracks, chips, deformation, or bent rails.

## Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
PowerFlex 750-Series Products with TotalFORCE Control Installation Instructions, publication <a href="#">750-IN100</a>	Provides the basic steps to install PowerFlex 755TL low harmonic drives, PowerFlex 755TR regenerative drives, and PowerFlex 755TM drive systems.
PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication <a href="#">750-IN101</a>	Provides instructions to install IP00 Open Type kits in user-supplied enclosures.
PowerFlex 755TM Power and Filter Modules Unpacking and Lifting Instructions, publication <a href="#">750-IN104</a>	These publications provide detailed information on: <ul style="list-style-type: none"> <li>Component weights</li> <li>Precautions and recommendations</li> <li>Hardware attachment points</li> <li>Lifting the component out of the packaging</li> </ul>
PowerFlex 750-Series Service Cart Instructions, publication <a href="#">750-IN105</a>	Provides detailed set-up and operating instructions for the module service cart.
PowerFlex 755TM Power and Filter Module Storage Hardware Instructions, publication <a href="#">750-IN106</a>	Provides detailed installation and usage instructions for this hardware accessory.
PowerFlex 750-Series Products with TotalFORCE Control Hardware Service Manual, publication <a href="#">750-TG100</a>	Provides detailed information on: <ul style="list-style-type: none"> <li>Preventive maintenance</li> <li>Component testing</li> <li>Hardware replacement procedures</li> </ul>

You can view or download publications at

<http://www.rockwellautomation.com/global/literature-library/overview.page>. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.

# Rockwell Automation Support

Use the following resources to access support information.

<b>Technical Support Center</b>	Knowledgebase Articles, How-to Videos, FAQs, Chat, User Forums, and Product Notification Updates.	<a href="https://rockwellautomation.custhelp.com/">https://rockwellautomation.custhelp.com/</a>
<b>Local Technical Support Phone Numbers</b>	Locate the phone number for your country.	<a href="http://www.rockwellautomation.com/global/support/get-support-now.page">http://www.rockwellautomation.com/global/support/get-support-now.page</a>
<b>Direct Dial Codes</b>	Find the Direct Dial Code for your product. Use the code to route your call directly to a technical support engineer.	<a href="http://www.rockwellautomation.com/global/support/direct-dial.page">http://www.rockwellautomation.com/global/support/direct-dial.page</a>
<b>Literature Library</b>	Installation Instructions, Manuals, Brochures, and Technical Data.	<a href="http://www.rockwellautomation.com/global/literature-library/overview.page">http://www.rockwellautomation.com/global/literature-library/overview.page</a>
<b>Product Compatibility and Download Center (PCDC)</b>	Get help determining how products interact, check features and capabilities, and find associated firmware.	<a href="http://www.rockwellautomation.com/global/support/pdc.page">http://www.rockwellautomation.com/global/support/pdc.page</a>

## Documentation Feedback

Your comments help us serve your documentation needs better. If you have any suggestions on how to improve this document, complete the How Are We Doing? form at [http://literature.rockwellautomation.com/idc/groups/literature/documents/du/ra-du002\\_-en-e.pdf](http://literature.rockwellautomation.com/idc/groups/literature/documents/du/ra-du002_-en-e.pdf).

Rockwell Automation maintains current product environmental information on its website at <http://www.rockwellautomation.com/rockwellautomation/about-us/sustainability-ethics/product-environmental-compliance.page>.

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