



ControlLogix™ Controller Revision 12

Cat. No. 1756-L55, -L55M12, -L55M13, -L55M14, -L55M16, -L55M22, -L55M23, -L55M24, -L63

IMPORTANT

If you have a 1756-L55 controller, you must install a memory board. For more information, see the *ControlLogix Controller and Memory Board Installation Instructions*, publication 1756-IN101.

When to Use These Release Notes

These release notes correspond to the following revisions of the ControlLogix family of controllers:

Controller:	Catalog number:	Revision:
ControlLogix5555™	1756-L55, -L55Mxx	12.18
ControlLogix5563™	1756-L63	12.24

Compatible Revisions

To use this controller revision, update your system as follows:

Update this:	To this revision or later:
RSLinx™ software	2.41
RSLogix 5000™ software	12.00
RSNetWorx™ for ControlNet software	4.11
RSNetWorx for DeviceNet software	4.12
1756-M02AE module	12.8
1756-M08SE module	12.6
1756-M16SE module	12.6
1756-HYD02 module	12.11

What Is In These Release Notes

These release notes provide the following information:

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Before You Update Your System

Before you update your controller or RSLogix 5000 software to this revision, do the following preliminary actions:

If:	Then:
Your controller is connected to a DH-485 network.	Disconnect it from the DH-485 network <i>before</i> you update the firmware of the controller. If you update the firmware of a controller while it is connected to a DH-485 network, communication on the network may stop.
You have a 1756-L55M23 or -L55M24 controller.	<p>See if all three of these conditions apply to the controller:</p> <ul style="list-style-type: none"> • Is the firmware revision of the controller 9.x or earlier? • Does the nonvolatile memory of the controller contain a project? • Is the <i>Load Image</i> property of the nonvolatile memory set to <i>On Power Up</i> or <i>On Corrupt Memory</i>? <p>If you answered yes to <i>all</i> of the questions, do the following <i>before</i> you update the firmware of the controller:</p> <ol style="list-style-type: none"> 1. In the <i>Load Image</i> drop-down list, select <i>User Initiated</i>. 2. Store the project to the nonvolatile memory of the controller. <p>Other Load Image selections cause the update of the controller to fail. (You are able to successfully update the controller the second time.)</p>

Enhancements

This revision of ControlLogix5555 and ControlLogix5563 controllers contains the following new features:

Enhancement:	Description:
1756-HYD02 Module	Use a ControlLogix controller and a 1756-HYD02 module to control 2 hydraulic axis.

Common Restrictions

This revision of ControlLogix5555 and ControlLogix5563 controllers has the following restrictions:

Restriction:	Description:
Project May Fail to Download	<p>If you update the controller from firmware revision 10.x to this revision, the project may fail to download. This occurs if the project contains more than 250 connections:</p> <ul style="list-style-type: none"> • Firmware revisions 10.x erroneously let you exceed 250 connections. • This revision requires that the project stay within 250 connections. • If you created more than 250 connections while using firmware revision 10.x, the project will no longer download after you update it to this firmware revision. • If this occurs, reduce the number of connections.

ControlLogix5555 Restrictions

IMPORTANT

Do not use this revision of firmware in a redundant controller system (ControlLogix Redundancy system).

The 1756-L55M16 controller has the following restrictions:

Restriction:	Description:
3.5M Byte Limit of Tags	<p>You <i>cannot</i> download a project that has more than 3.5M bytes of tags to a 1756-L55M16 controller. During the download, RSLogix 5000 software indicates that the controller is out of memory.</p> <p>To stay within the 3.5M byte limit, take this precaution:</p> <ul style="list-style-type: none"> • As you create tags, periodically download the project. If the project successfully downloads, then you know you are within the 3.5M byte limit.
Guidelines for the Size of Routines	<p>You <i>cannot</i> download a project that has very large routines. During the download, RSLogix 5000 software indicates that the controller is out of memory. (While online, you may be able to create a very large routine, but once offline you will be unable to download the project.)</p> <p>To avoid creating routines that are too large, take these precautions:</p> <ul style="list-style-type: none"> • Limit the number of rungs in a routine to less than 2500. (Use a series of smaller routines.) • If you are entering a large number of rungs in a routine, do this offline. • As you enter rungs, periodically download the project. If the project successfully downloads, then your routines are within limits.

Rockwell Automation Support

Rockwell Automation provides technical information on the web to assist you in using our products. At <http://support.rockwellautomation.com>, you can find technical manuals, a knowledge base of FAQs, technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools.

For an additional level of technical phone support for installation, configuration and troubleshooting, we offer TechConnect Support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit <http://support.rockwellautomation.com>.

Installation Assistance

If you experience a problem with a hardware module within the first 24 hours of installation, please review the information that's contained in this manual. You can also contact a special Customer Support number for initial help in getting your module up and running:

United States	1.440.646.3223 Monday – Friday, 8am – 5pm EST
Outside United States	Please contact your local Rockwell Automation representative for any technical support issues.

New Product Satisfaction Return

Rockwell tests all of our products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned:

United States	Contact your distributor. You must provide a Customer Support case number (see phone number above to obtain one) to your distributor in order to complete the return process.
Outside United States	Please contact your local Rockwell Automation representative for return procedure.

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