GENUINE GRACO PARTS AND ACCESSORIES

Graco Control
Architecture™ Module
Programming

For updating or programming the software version of Graco Control Architecture Modules. For professional use only.

See your system manual when replacing parts in hazardous locations.

Important Safety Instructions
Read all warnings and instructions in this manual and your system manuals. Save these instructions.

NOTE: An upgrade token is needed to program modules. See system manual for token part number.

PROVEN QUALITY. LEADING TECHNOLOGY.
Supply Power to Module

Supply electrical power to the Graco Control Architecture Module using either system power or Power Supply Kit 24F672, available separately.

Software Upgrade Instructions

Follow these instructions to upgrade the software in all of the Graco Control Architecture Modules. Reference illustrations of each module starting on page 6.

1. Remove power from the Graco Control Architecture Module by turning off system power or unplugging the Power Supply Kit 24F672 (available separately).

2. Remove access cover (C).

**NOTE:** For cube modules, the cover is removed by pressing in the two tabs. For other modules, one or more screws (S) must be removed.

3. Insert and press the token (T) firmly into the slot.

**NOTE:** Token has no preferred orientation.

4. Supply electrical power to the Graco Control Architecture Module using either system power or Power Supply Kit 24F672 (available separately).

**NOTE:** The Motor Control Module 257696, High Power Temperature Control Module 255774, and the Low Power Temperature Control Module 256270 do not require power to the high voltage AC input.

5. The red indicator light (L) will flash while the software is being loaded. When the software is completely loaded, the red light will turn off.

**NOTE:** For the USB module only, when the red light stops flashing, the green and orange indicator lights adjacent to the USB connector will flash for several minutes while configurations are loaded. The software is completely loaded when the red, green, and orange indicator lights are off.

**NOTE:** For displays only: If 🔄 is displayed on the screen, see Remote Loading, page 3.

6. Remove power from the Graco Control Architecture Module by turning off system power or unplugging the Power Supply Kit 24F672.

7. Remove the token (T) from the slot.

8. Reinstall the access cover and secure with screws (S), if applicable.
9. Upgrade all other modules in the system to the software revision on the token, if not already completed. Different software versions may not be compatible.

**NOTE:** If the software on the token is the same version that is already programmed on the module, nothing will happen (including flashing red light). No harm can be done by attempting to program the module multiple times. For Communications Gateway Modules, installing upgrade software will not erase or overwrite a data map, if already loaded.

### Remote Loading

<table>
<thead>
<tr>
<th>Display on System</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Module (ADM), 24E451</td>
<td>3</td>
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<tr>
<td>Display Module 262384, 24F493</td>
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</tr>
<tr>
<td>Display Control Module, 24L096, or Advanced Display Control Module, 24L097</td>
<td>5</td>
</tr>
</tbody>
</table>

### Systems With Advanced Display Module (ADM), 24E451

1. The following screen will be shown when the display turns on.

![Communications with other modules established.](image)

2. Select which software is applied to each module when multiple software options exist. The following screen is not present in all systems. See system specific manual for more details. Press to continue.

![Key:](image)

A Module Serial Number  
B Software currently on module  
C Software available for module

3. Wait for update to complete.

**NOTE:** The approximate time until completion is shown along bottom of progress bar.

![Icon Table](image)

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Update successful</td>
</tr>
<tr>
<td></td>
<td>Update unsuccessful</td>
</tr>
<tr>
<td></td>
<td>Update complete; no change necessary.</td>
</tr>
<tr>
<td></td>
<td>Modules were updated or didn’t require an update; however, one or more modules need to be updated manually with a token.</td>
</tr>
</tbody>
</table>

4. Updates are complete. Icon indicates update success or failure. See Icon Table. Press to continue.
Remote Loading

Systems With A Display Module, 262384, 24F493

1. The following screen will be shown when the display turns on.

![GRACO](image)

*Communications with other modules established.*

2. Select which software is applied to each module when multiple software options exist. The following screen is not present in all systems. See system specific manual for more details. Press to continue.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>98765432</td>
<td>16N679</td>
<td>16N679</td>
</tr>
<tr>
<td>12345678</td>
<td>16N679</td>
<td>16N679</td>
</tr>
</tbody>
</table>

**Key:**

A Module Serial Number
B Software currently on module
C Software available for module

3. Wait for update to complete.

**NOTE:** The approximate time until completion is shown along bottom of progress bar.

4. Updates are complete. Icon indicates update success or failure. See Icon Table. Press to continue.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Update successful" /></td>
<td>Update successful</td>
</tr>
<tr>
<td><img src="image" alt="Update unsuccessful" /></td>
<td>Update unsuccessful</td>
</tr>
<tr>
<td><img src="image" alt="Update complete; no change necessary" /></td>
<td>Update complete; no change necessary.</td>
</tr>
<tr>
<td><img src="image" alt="Modules were updated or didn’t require an update; however, one or more modules need to be updated manually with a token." /></td>
<td>Modules were updated or didn’t require an update; however, one or more modules need to be updated manually with a token.</td>
</tr>
</tbody>
</table>
Systems With A Display Module or Advanced Display Module, 24L096, 24L097

1. The following screen will be shown when the display turns on.

![GRACO Logo]

Communications with other modules established.

2. Select which software is applied to each module when multiple software options exist. The following screen is not present in all systems. See system specific manual for more details. Press to continue.

![Icon Table]

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Update successful]</td>
<td>Update successful</td>
</tr>
<tr>
<td>![Update unsuccessful]</td>
<td>Update unsuccessful</td>
</tr>
<tr>
<td>![Update complete]</td>
<td>Update complete; no change necessary.</td>
</tr>
<tr>
<td>![Update manual]</td>
<td>Modules were updated or didn’t require an update; however, one or more modules need to be updated manually with a token.</td>
</tr>
</tbody>
</table>

Key:
A Module Serial Number
B Software currently on module
C Software available for module

3. Wait for update to complete.

**NOTE:** The approximate time until completion is shown along bottom of progress bar.

![Progress Bar]

00:13 01:05

4. Updates are complete. Icon indicates update success or failure. See Icon Table. Press to continue.
Available Graco Control Architecture Modules

Display Module (262384, 24F493)

USB Module (289900)

Advanced Fluid Control Module (255920)

Advanced Display Module (24E451)
Available Graco Control Architecture Modules

Communications Gateway Module (15V759, 15V760, 15V761, 15V762, 289835, 289836, 289837, 289838)

Fluid Control Module (289696)

Discrete Gateway Module (24B681)

Local Control Module (262416)
Available Graco Control Architecture Modules

High Power Temperature Control Module (255774)

Motor Control Module (257396)

Low Power Temperature Control Module (256270)

Display Control Module (24L096) and Advanced Display Control Module (24L097)
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This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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For patent information, see www.graco.com/patents.

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