Installation Instructions

Original Instructions

Kinetix 5700 System Mounting Toolkit

Catalog Number 2198-K5700-MOUNTKIT

Summary of Changes

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

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About the System Mounting Toolkit

The Kinetix® 5700 system mounting toolkit is used to locate the drill-holes for your Kinetix 5700 drive system. Properly spaced drill-holes are essential for engaging the zero-stack tab and cutout from module-to-module so that the DC-bus connectors are spaced properly to accept the DC-bus links. The Kinetix 5700 system mounting toolkit can be used with modules with different widths and instructions to do so are included in this document. The Kinetix 5700 system mounting toolkit includes a drill-hole guide and a mounting bar. Two M4 thread-forming fasteners are also included.

This document describes how to attach the mounting bar and use the Kinetix 5700 drill-hole guide with different sized modules.

See the Kinetix 5700 Servo Drives User Manual, publication 2198-UM002, for detailed information on wiring, applying power, troubleshooting, and integration with Logix 5000™ controllers.

Parts List

The Kinetix 5700 mounting toolkit includes:

- Mounting bar
- Drill hole guide
- Two M4 thread-forming fasteners for attaching mounting bar

Required Tools and Components

These tools are required:

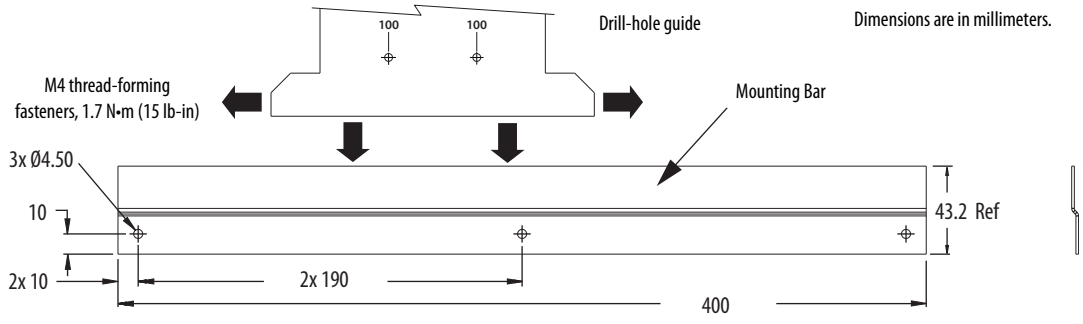
- Pencil or other device to draw lines and mark places to drill holes
- Phillips screwdriver

Install the Mounting Bar and Position the Drill-hole Guide

The mounting bar must be mounted horizontally on the system panel. The drill-hole guide inserts behind the mounting bar and slides left and right. Holes and slots in the drill-hole guide let you establish the location of each Kinetix 5700 drive module. The following instructions are for 55 mm, 85 mm, and 100 mm wide modules. For instructions on how to use the drill-hole guide to map drill-holes for 165 mm, 220 mm, 275 mm, and 440 mm wide modules, refer to those sections in this document.

IMPORTANT In this document hole spacing is measured in millimeters and not converted to inches to avoid errors due to rounding.

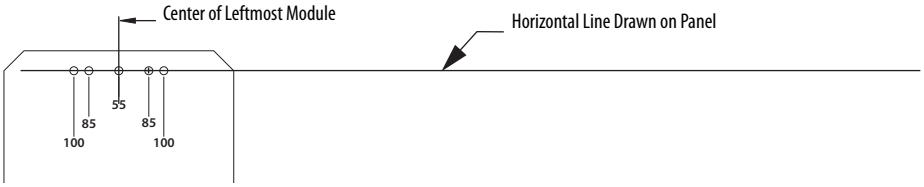
Figure 1 - Mounting Bar



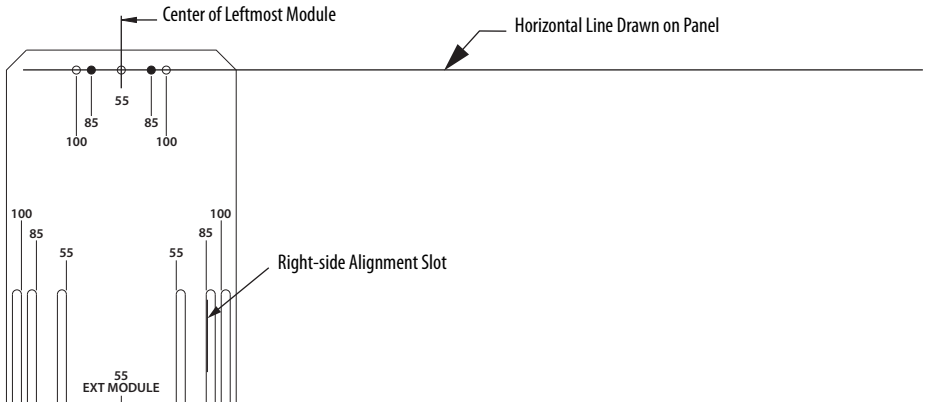
Follow these steps to locate the drill-holes for your Kinetix 5700 drive system.

1. Draw a horizontal line on the panel where you would like to position the upper module-width holes (refer to Figure 2).

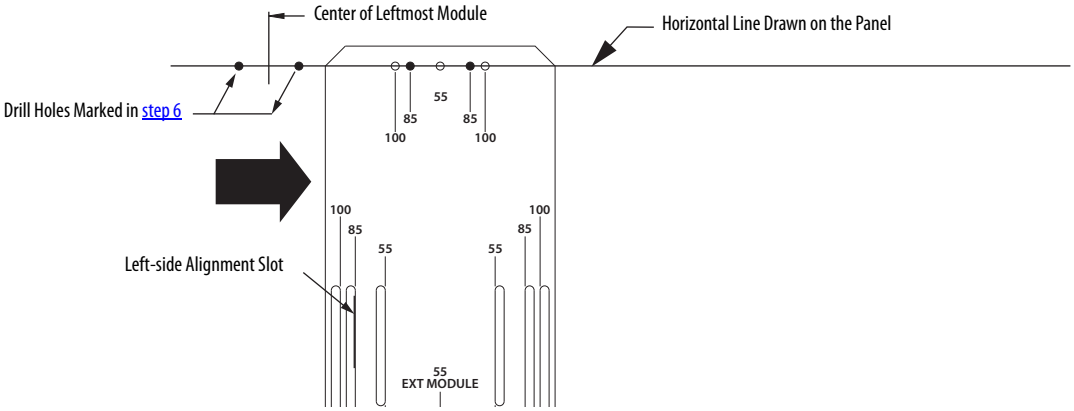
2. Drill three 3.6 mm holes 506 mm below the line you drew in step 1 for attaching the mounting bar to the panel.
3. Attach the mounting bar to the panel by using the two M4 fasteners.
4. Determine (left to right) the leftmost module position and draw a vertical line where you would like the center of that leftmost module.



5. Slide the drill-hole guide into the mounting bar and adjust left-to-right until the 55 mm upper module width hole is aligned with the vertical line you drew in step 4.
6. Mark the upper and lower module-width holes appropriate for the drive-width of module being mounted. In the example in below, the leftmost module is 85 mm wide.



7. Draw a line along the left edge of the right-side alignment slot appropriate for the drive-width of module being mounted.
8. Slide the drill-hole guide to the right until the line you drew in step 7 is visible in the left-side alignment slot appropriate for the drive-width of next module being mounted.



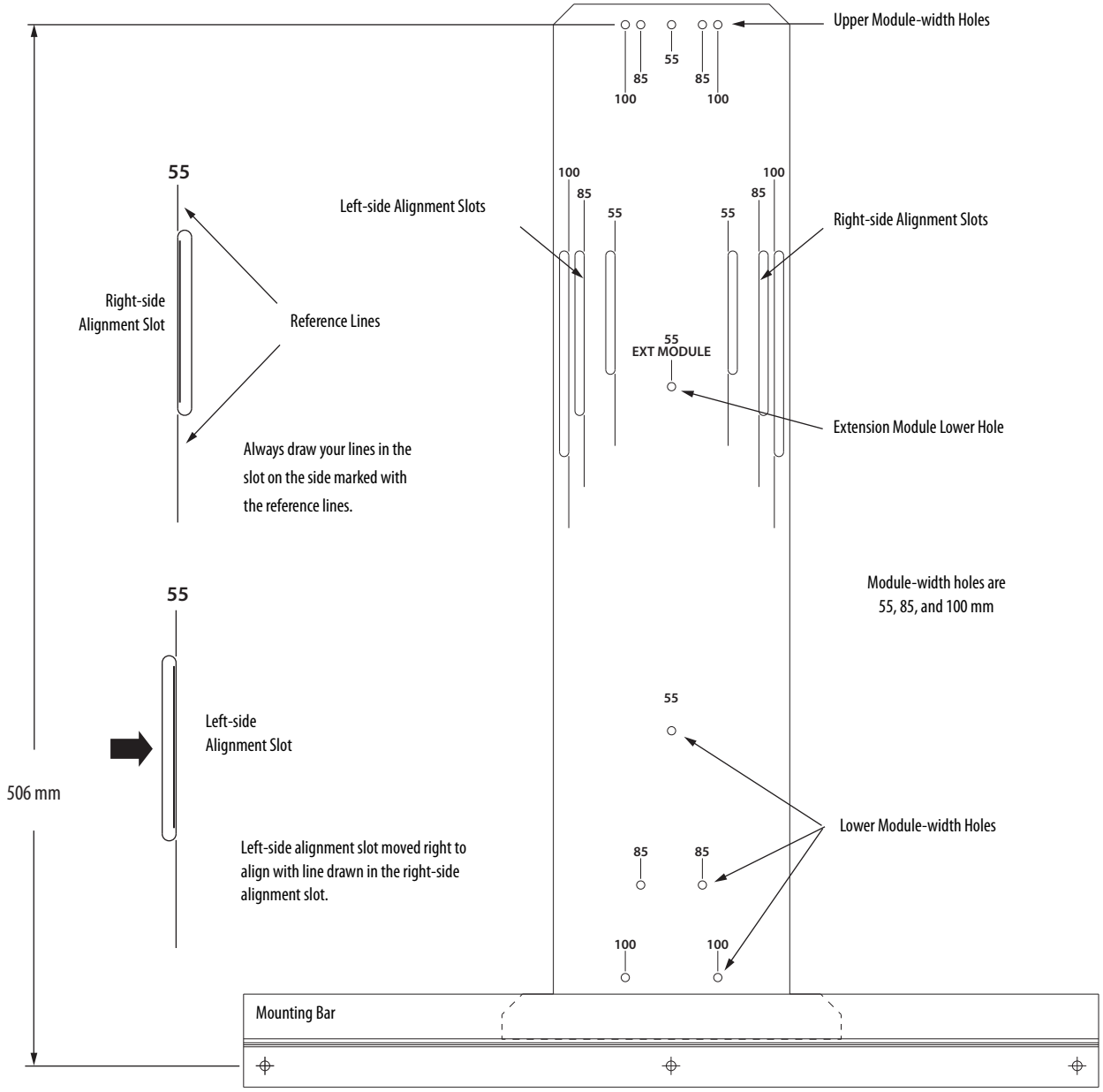
In this example, the next module is also 85 mm wide.

9. Repeat step 6 through step 8 for each additional 85 mm wide module in your drive system, or go to the instructions in this document that match the width of the next module you are installing.

TIP When drive systems are wider than the mounting bar, you can remove the screws and shift the mounting bar left or right, reusing two of the original holes and drilling another (repeat as needed).

10. Remove the mounting bar from the panel when you are finished.

Figure 2 - Kinetix 5700 System Mounting Toolkit



Use the Drill Hole Guide with 165 mm Wide Modules

Follow these steps to locate the drill-holes for your 165 mm wide modules in your Kinetix 5700 drive system:

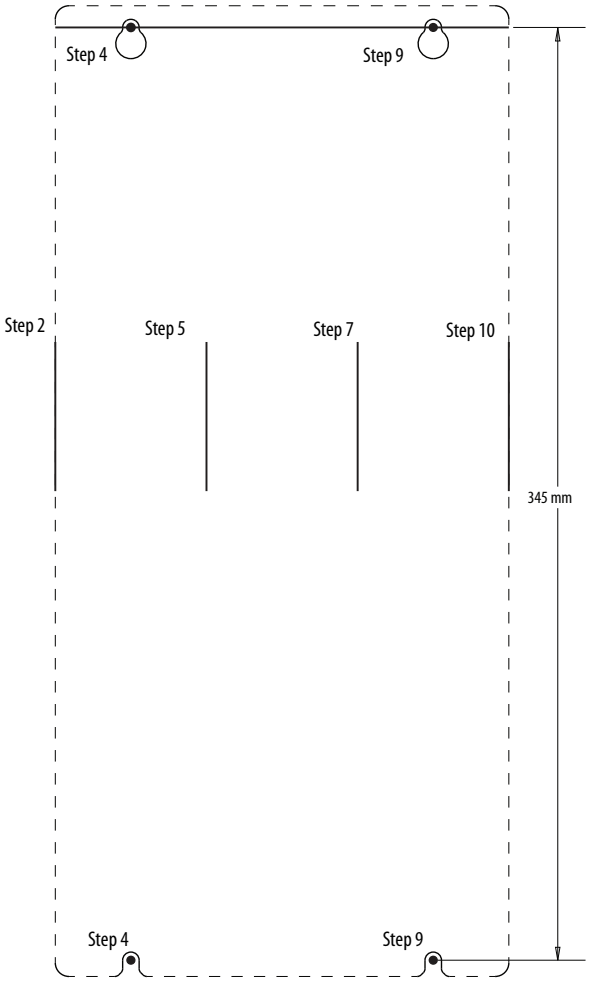
1. Complete steps 1...3 from Install the Mounting Bar and Position the Drill-hole Guide. See Figure 2 to see location and labels of holes and slots on the drill-hole guide. Figure 3 shows the finished drill-hole map for 165 mm wide modules and notes the steps where each mark was made. The figure is not to scale.
2. Draw a vertical line where the left side of the module is to be installed.
3. Slide the drill-hole guide into the mounting bar and adjust left-to-right until the 55 mm upper module-width hole is aligned with the vertical line you drew in step 2.
4. Mark top 55 hole and bottom 55 hole locations.

5. Draw a line in the rightmost 55 slot.
6. Shift the template to align with the line you drew in step 5 to the leftmost 55 slot.
7. Draw a line in the rightmost 55 slot.
8. Align the left 55 slot in the template to the line you drew in step 7.
9. Mark the top and bottom 55 hole locations.
10. Draw a line in the rightmost 55 slot.
11. Use the related steps in this document for each size module you are installing in your system.

    TIP When drive systems are wider than the mounting bar, you can remove the screws and shift the mounting bar left or right, reusing two of the original holes and drilling another (repeat as needed).

12. Remove the mounting bar from the panel when you are finished. The finished marks appear as shown in Figure 3. The figure is not to scale.

Figure 3 - Drill Hole Guide Map After Using 165 mm Wide Module Instructions



Use the Drill Hole Guide with 220 mm Wide Modules

Follow these steps to locate the drill-holes for your 220 mm wide modules in your Kinetix 5700 drive system:

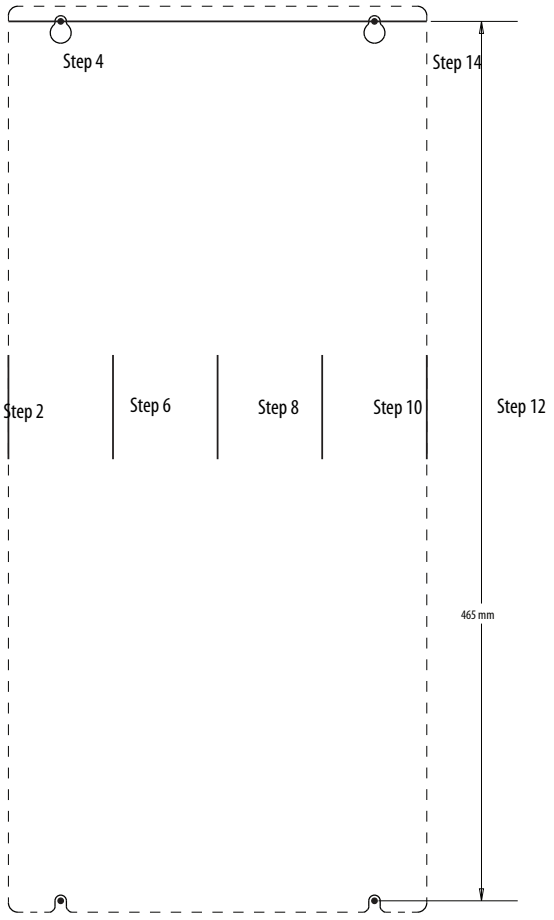
1. Complete steps 1...3 from Install the Mounting Bar and Position the Drill-hole Guide. See Figure 2 to see location and labels of holes and slots on the drill-hole guide. Figure 4 shows the finished drill-hole map and the steps where each mark was made. The figure is not to scale.
2. Draw a vertical line where left side of module is to be installed.

3. Slide the drill-hole guide into the mounting bar and adjust left-to-right until the 100 mm upper module-width hole is aligned with the vertical line you drew in step 2.
4. Mark top left 100 hole and bottom left 100 hole locations.
5. Shift the template left to align the vertical line you drew in step 2 with the leftmost 55 slot.
6. Draw a line in the rightmost 55 slot.
7. Shift the template to align the line you drew in step 6 to the leftmost 55 slot.
8. Draw a line in the rightmost 55 slot.
9. Shift the template to align the line you drew in step 8 to the leftmost 55 slot.
10. Draw a line in the rightmost 55 slot.
11. Shift the template to align the line you drew in step 10 to the leftmost 55 slot.
12. Draw a line in the rightmost 55 slot.
13. Align rightmost 100 slot to the last vertical line drawn in step 12.
14. Mark the top right 100 hole and bottom right 100 hole locations.
15. Use the related steps in this document for the size of each additional module you are installing in your system.

    TIP When drive systems are wider than the mounting bar, you can remove the screws and shift the mounting bar left or right, reusing two of the original holes and drilling another (repeat as needed).

16. Remove the mounting bar from the panel when you are finished. The finished marks appear as shown in Figure 4. The figure is not to scale.

Figure 4 - Drill Hole Guide Map After Using 220 mm Wide Modules



Use the Drill Hole Guide with 275 mm Wide Modules

Follow these steps to locate the drill-holes for your 275 mm wide modules in your Kinetix 5700 drive system:

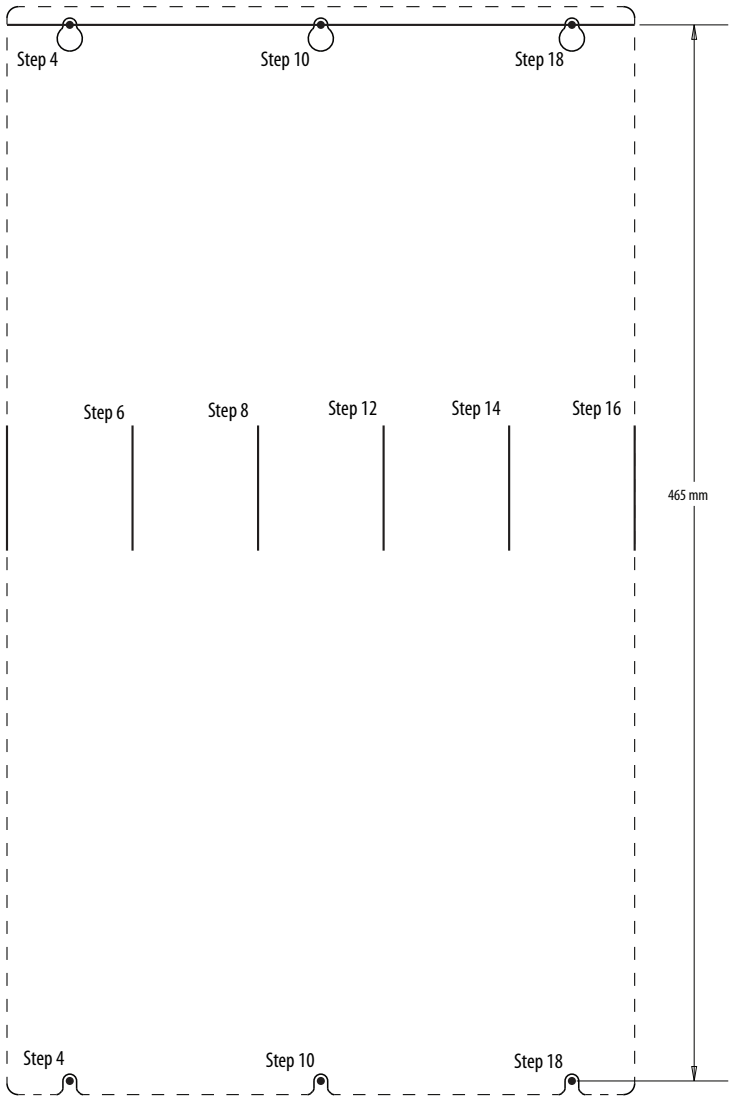
1. Complete steps 1...3 from Install the Mounting Bar and Position the Drill-hole Guide. See Figure 2 to see location and labels of holes and slots on the drill-hole guide. Figure 5 shows the finished drill-hole map and the steps where each mark was made. The figure is not to scale.
2. Draw a vertical line where the left side of the module is to be installed.
3. Slide the drill-hole guide into the mounting bar and adjust left-to-right until the 100 mm upper module-width hole is aligned with the vertical line you drew in step 2.
4. Mark the top left 100 hole and bottom left 100 hole locations.
5. Shift the template left to align the vertical line you drew in step 2 with the leftmost 55 slot.
6. Draw a line in the rightmost 55 slot.
7. Shift the template to align the line you drew in step 6 to the leftmost 55 slot.
8. Draw a line in the rightmost 55 slot.
9. Shift the template right to align the line you drew in step 8 with the leftmost 100 slot.
10. Mark the top left 100 hole and the bottom left 100 hole locations.
11. Shift the template left to align the rightmost line to the leftmost 55 slot.
12. Draw a line in the rightmost 55 slot.
13. Shift the template to align the line you drew in step 12 to the leftmost 55 slot.

14. Draw a line in the rightmost 55 slot.
15. Shift the template to align the line you drew in step 14 to the leftmost 55 slot.
16. Draw a line in the rightmost 55 slot.
17. Align rightmost 100 slot to the last vertical line you drew in step 16.
18. Mark the top right 100 hole and bottom right 100 hole locations.
19. Use the related steps in this document for each size module you are installing in your system.

    TIP When drive systems are wider than the mounting bar, you can remove the screws and shift the mounting bar left or right, reusing two of the original holes and drilling another (repeat as needed).

20. Remove the mounting bar from the panel when you are finished. The finished marks appear as shown in Figure 5. The figure is not to scale.

Figure 5 - Drill Hole Guide Map After Using 275 mm Wide Module Instructions



Use the Drill Hole Guide with 440 mm Wide Modules

Follow these steps to locate the drill-holes for your 440 mm wide modules in your Kinetix 5700 drive system:

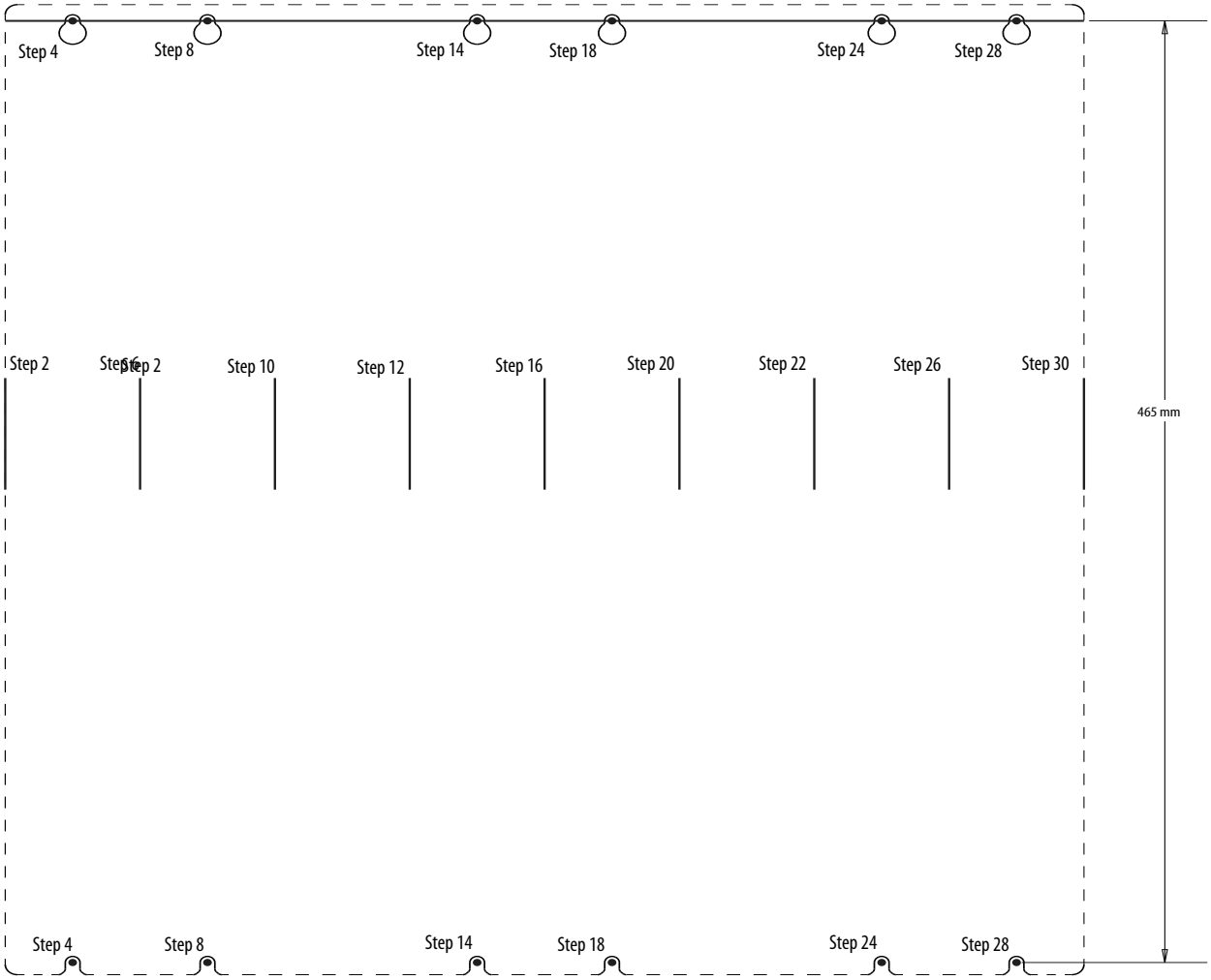
1. Complete steps 1...3 from Install the Mounting Bar and Position the Drill-hole Guide. See Figure 2 to see location and labels of holes and slots on the drill-hole guide. Figure 6 shows the finished drill-hole map and the steps where each mark was made. The figure is not to scale.

2. Draw vertical line where left side of module is to be installed.
3. Slide the drill-hole guide into the mounting bar and adjust left-to-right until the 100 mm upper module-width hole is aligned with the vertical line you drew in step 2
4. Mark top left 100 hole and bottom left 100 hole locations.
5. Shift the template the left to align the vertical line created in step 2 with the leftmost 55 slot.
6. Draw line in the rightmost 55 slot.
7. Shift the template right to align the left 100 slot in the template to the line you drew in step 5.
8. Mark top left 100 hole and bottom left 100 hole locations.
9. Shift the template to align the line you drew in step 6 to the leftmost 55 slot.
10. Draw a line in the rightmost 55 slot.
11. Shift the template to align the line that you drew in step 8 to the leftmost 55 slot.
12. Draw a line in the rightmost 55 slot.
13. Align left 100 slot in the template to the line you drew in step 9.
14. Mark top left 100 hole and bottom left 100 hole locations.
15. Shift the template left to align the vertical line created in step 10 with the leftmost 55 slot.
16. Draw a line in the rightmost 55 slot.
17. Align the left 100 slot in the template to the line you drew in step 12.
18. Mark top left 100 hole and bottom left 100 hole locations.
19. Shift the template left to align the vertical line you drew in step 13 with the leftmost 55 slot.
20. Draw a line in the rightmost 55 slot.
21. Shift the template left to align the vertical line you drew in step 15 with the leftmost 55 slot.
22. Draw a line in the rightmost 55 slot.
23. Align left 100 slot in the template to the line you drew in step 16.
24. Mark the top left 100 hole and the bottom left 100 hole locations.
25. Shift the template left to align the vertical line you drew in step 16 with the leftmost 55 slot.
26. Draw line in rightmost 55 slot.
27. Align the left 100 slot in the template to the line you drew in step 19.
28. Mark top left 100 hole and bottom left 100 hole locations.
29. Shift the template left to align the vertical line you drew in step 20 with the leftmost 55 slot.
30. Draw a line in the rightmost 55 slot.
31. Use the related steps in this document for each size module you are installing in your system.

    TIP When drive systems are wider than the mounting bar, you can remove the screws and shift the mounting bar left or right, reusing two of the original holes and drilling another (repeat as needed).

32. Remove the mounting bar from the panel when you are finished. The finished marks appear as shown in Figure 6. The figure is not to scale.

Figure 6 - Drill Hole Guide Map After Using the 440 mm Wide Module Instructions



Additional Resources

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

Resource	Description
Kinetix 5700 Servo Drives User Manual, publication 2198-UM002	Provides information on installing, configuring, start up, and troubleshooting your Kinetix 5700 servo drive system.
Kinetix Motion Control Selection Guide, publication KNX-SG001	Overview of Kinetix servo drives, motors, actuators, and motion accessories that are designed to help make initial decisions for the motion control products best suited for your system requirements.
Kinetix 5700 Drive Systems Design Guide, publication KNX-RM010	System design guide to select the required (drive specific) drive module, power accessory, feedback connector kit, and motor cable catalog numbers for your Kinetix 5700 drive and Kinetix VP motor motion control system.
Kinetix Servo Drives Specifications Technical Data, publication KNX-TD003	Product specifications for Kinetix Integrated Motion over the EtherNet/IP network, Integrated Motion over Sercos interface, EtherNet/IP networking, and component servo drive families.
Rockwell Automation Industrial Automation Glossary, publication AG-7.1	A glossary of industrial automation terms and abbreviations.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, rok.auto/certifications	Provides declarations of conformity, certificates, and other certification details.

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Literature Library	Installation Instructions, Manuals, Brochures, and Technical Data.	http://www.rockwellautomation.com/global/literature-library/overview.page
Product Compatibility and Download Center (PCDC)	Get help determining how products interact, check features and capabilities, and find associated firmware.	http://www.rockwellautomation.com/global/support/pcdc.page

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