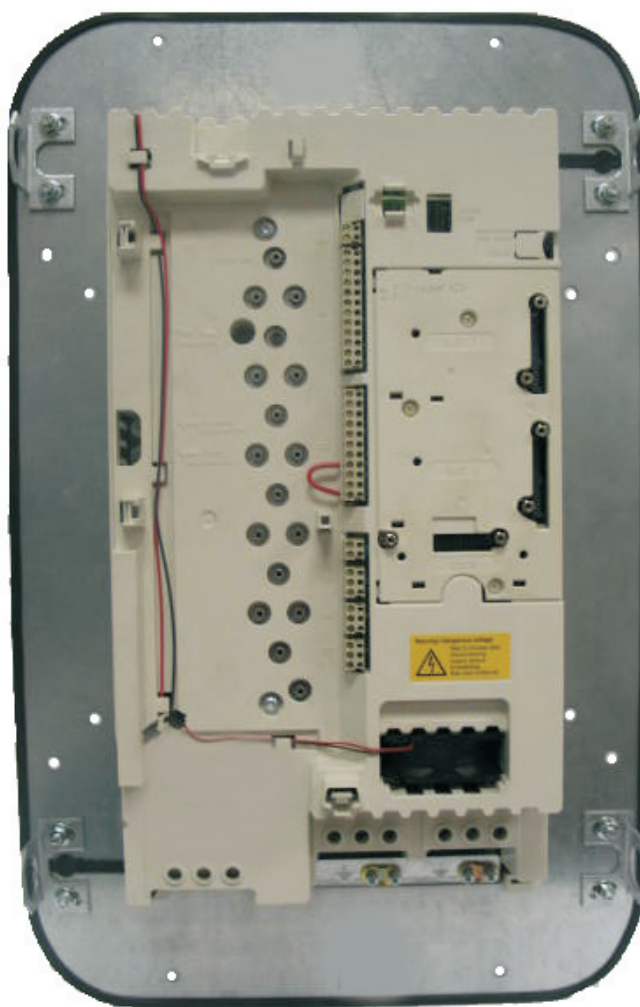
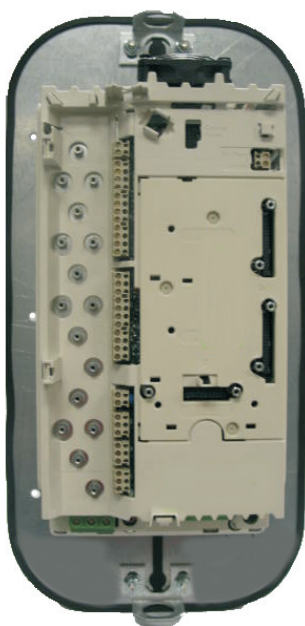


ABB Solutions

Flange Mounting Instructions

ACS800 - Frame R2-R6

ACS550 - Frame R5-R6





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Contact ABB Inc., Low Voltage Drives

www.abb.us/drives

U.S. Headquarters, Low Voltage Drives

ABB Inc.

Low Voltage Drives
16250 W. Glendale Drive
New Berlin, WI 53151

U.S. ABB Low Voltage Drives Technical Support

Tel: (800) 435-7365, Fax: (262) 780-5135, email: DrivesSupportLine@us.abb.com

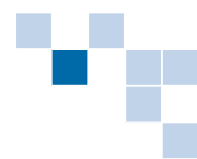


Table of Contents

Materials

ACS800 R2-R3 Frames	4
ACS800 R4-R6 Frames	5
ACS550 R5-R6 Frames	5

Mounting

ACS550 R5-R6 Frames	6
---------------------------	---

Assembly

ACS800 R2-R3 Frames	8
ACS800 R4-R6 Frames	10
ACS550 R5-R6 Frames	10

Exploded Diagram Drawings

ACS800 R2 Frame	14
ACS800 R3 Frame	14
ACS800 R4 Frame	14
ACS800 / ACS550 R5 Frame	15
ACS800 / ACS550 R6 Frame	15

Dimensional Drawings

ACS800 R2 Frame	16
ACS800 R3 Frame	16
ACS800 R4 Frame	17
ACS800 / ACS550 R5 Frame	18
ACS800 / ACS550 R6 Frame	19

Mounting Drawings

ACS800 R2 Frame	Sheet 1
ACS800 R3 Frame	Sheet 1
ACS800 R4 Frame	Sheet 2
ACS800 / ACS550 R5 Frame	Sheet 3
ACS800 / ACS550 R6 Frame	Sheet 4

Safety Instructions






Assembly of Flange Mount Kits



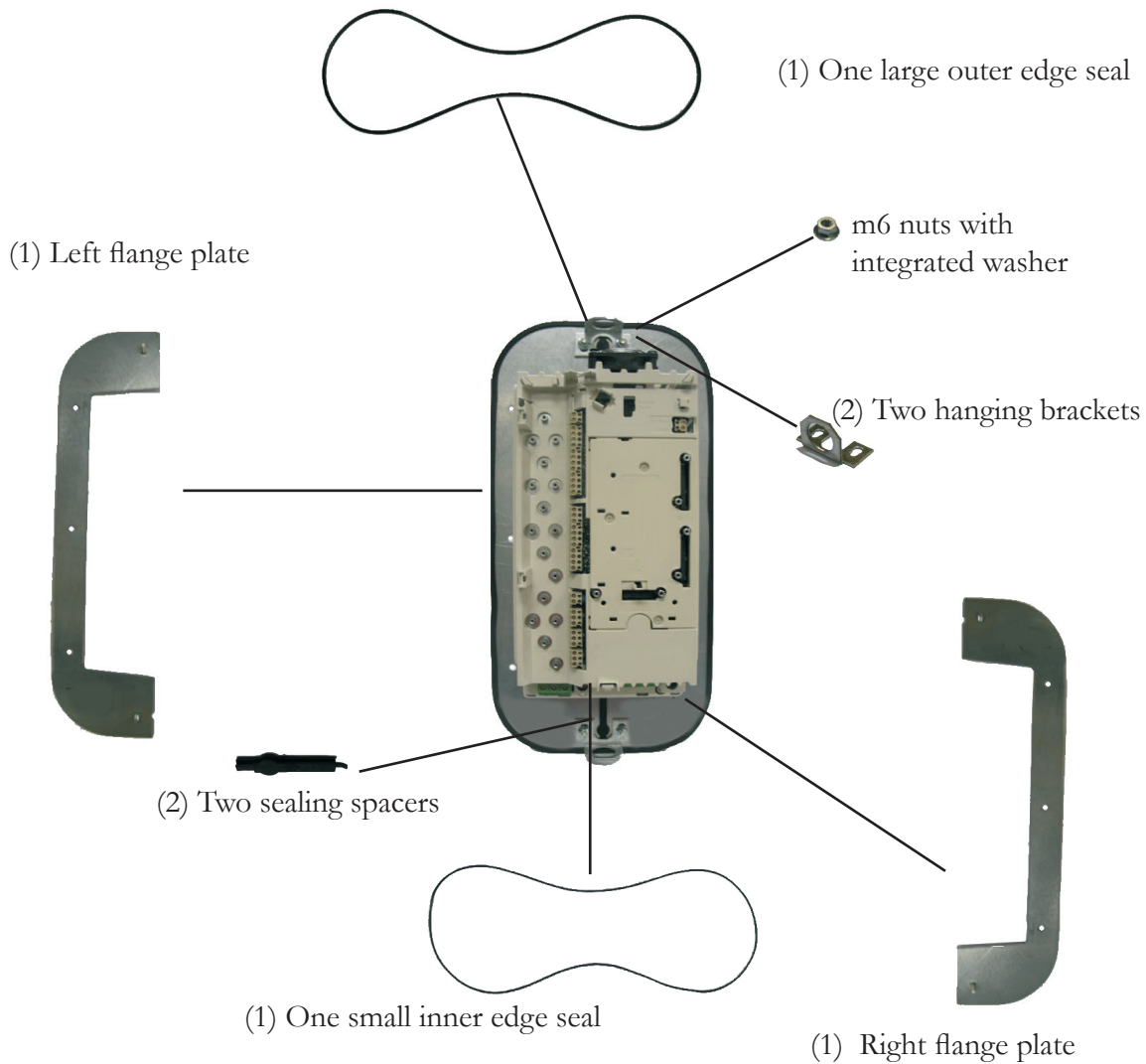
- Stamped steel may have sharp edges. Use caution when handling the parts of this kit to prevent injury.
- Follow the torque recommendations for all fasteners. Fasteners without torque specifications provided in documentation should be tightened to standard torques for the fastener size and type.
- Verify all fasteners are fully engaged upon completion of assembly.

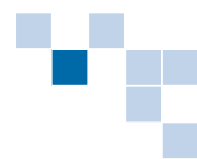


Materials - ACS800 R2-R3 Frames

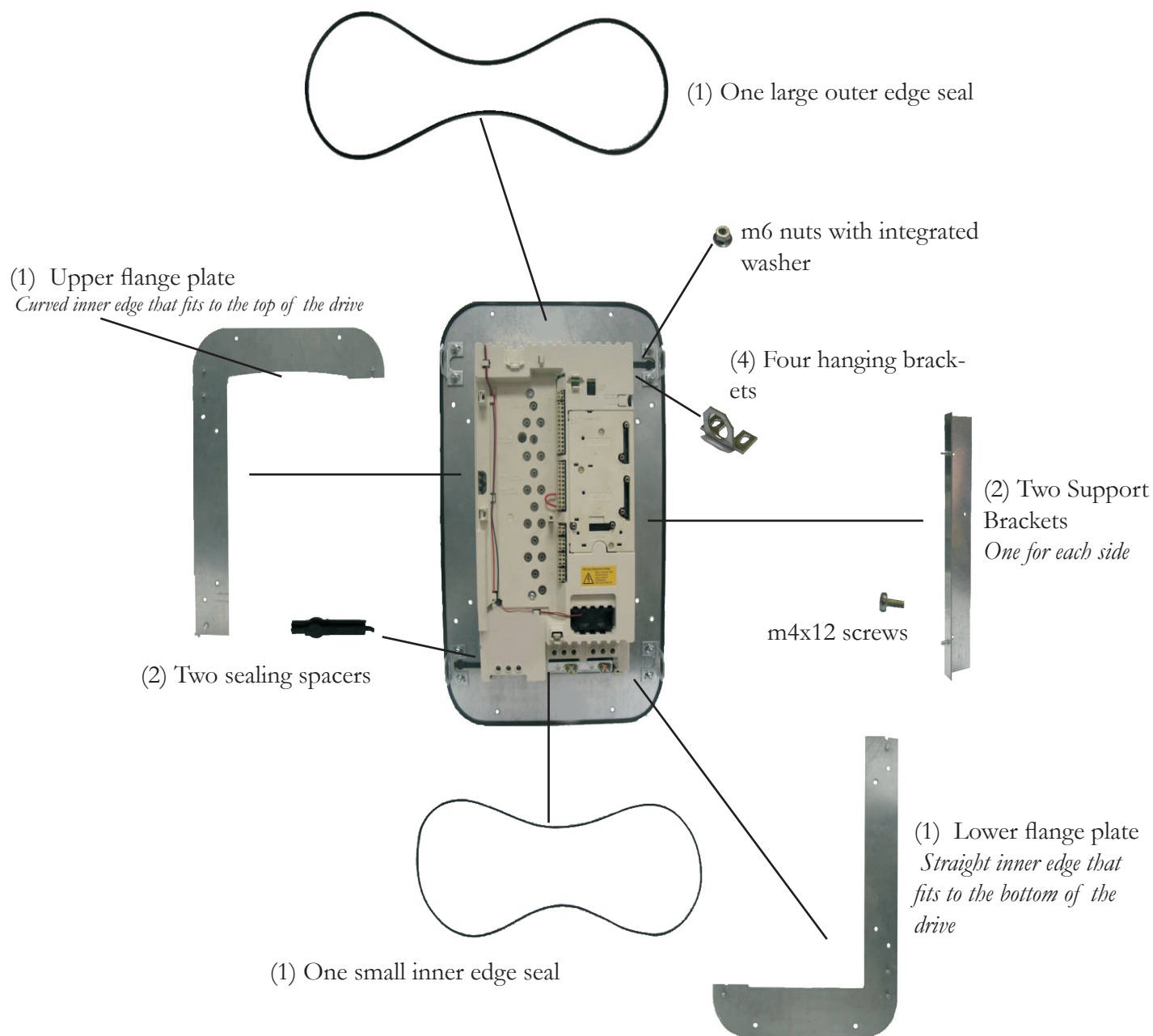
	 m4x12 screw	 M6 Nut	 M5x10 Self-Tap Screw	 M5 Lockwasher	 M5 Flat Washer
	6	16	12	12	12
R2	0	4	6	6	6
R3	0	4	6	6	6
R4	6	12	8	8	8
R5	6	14	10	10	10
R6	6	16	12	12	12

Note: Use either a 4.5mm, #16/#17, or 11/64" drill bit for drilling the flange mounting holes in the panel.





Materials - ACS800 R4-R6 and ACS550 R5-R6 Frames





Mounting Instructions

1. Identify the correct frame drawing.

NOTE: The bottom right number on the cut-out sheet is the sheet number. The frame number is identified in the center of the cut-out template.

Sheet 1 - Frames R2 and R3

Sheet 2 - Frame R4

Sheet 3 - Frame R5

Sheet 4 - Frame R6

2. Choose proper drawing for installation and trim around the cut-out template, leaving a 2" border.

NOTE: Leave "TOP" marking attached to the cut-out for orientation purposes.

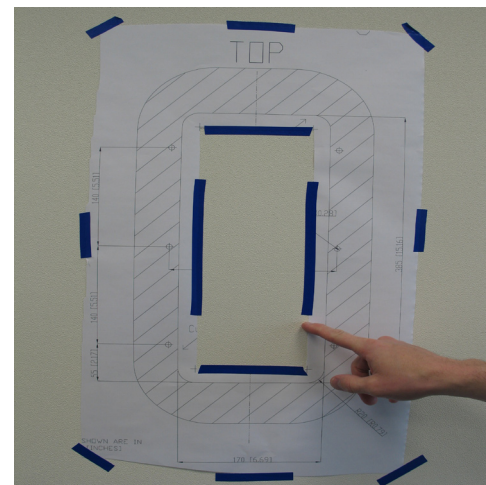
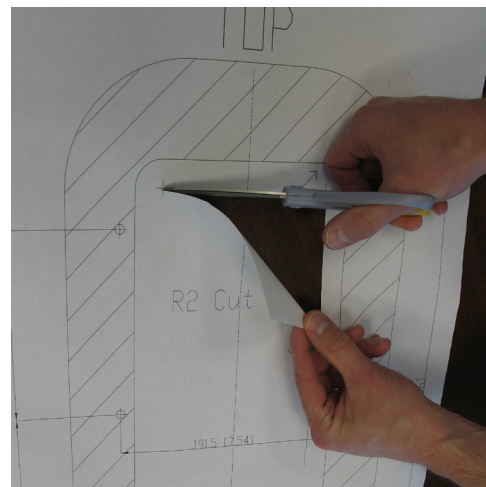
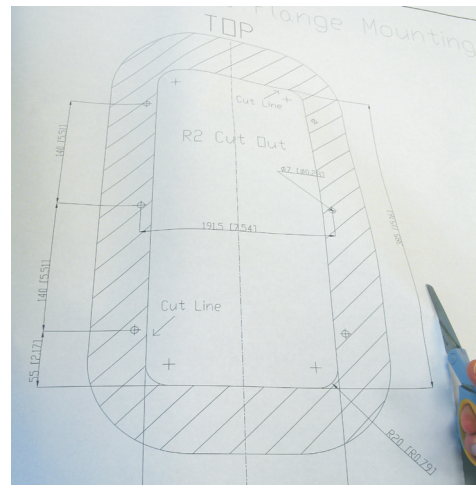
3. Remove the inner part of the cut-out template by trimming 1/2" in from the hash marks.

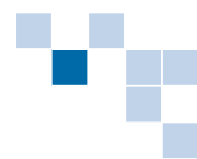
NOTE: Do not remove hash marks in the corners.

4. Position the cut-out template on the subpanel or enclosure wall for drive mounting.

5. Once properly positioned (with "TOP" marking oriented where the top of the drive will be), secure the cut-out template to the panel by taping the inner and outer edges.

NOTE: By taping the inner and outer edges, it ensures a secure and accurate cut line.

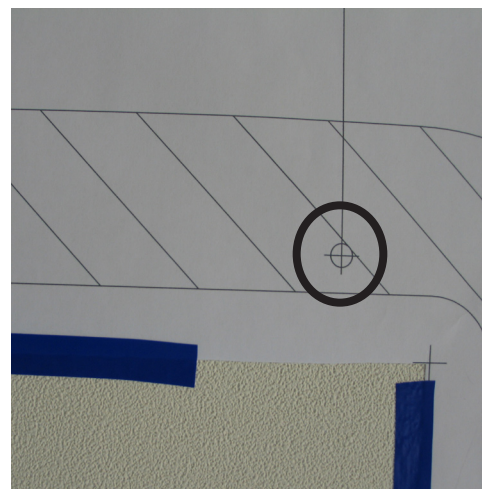




Mounting Instructions (continued)

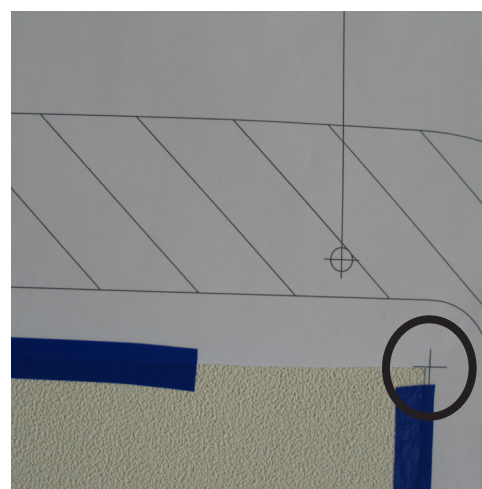
6. Center punch and drill flange mounting holes.

NOTE: Use a #16, #17 or 11/64" drill bit to drill out mounting holes.



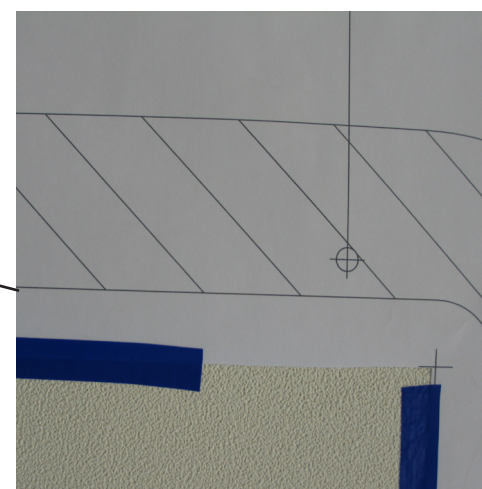
7. Center punch the hash marks

8. Using a 1 1/2" hole saw, drill corners of the cut-out.



9. Using a metal cutting tool (typically a jigsaw), cut along the inner edge of the cut-out template.

Inner edge



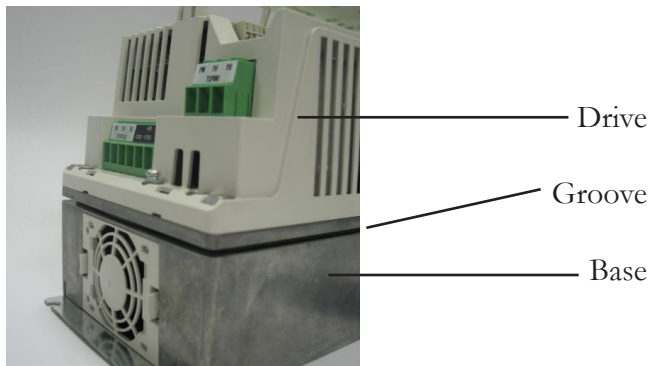
10. Remove paper when complete



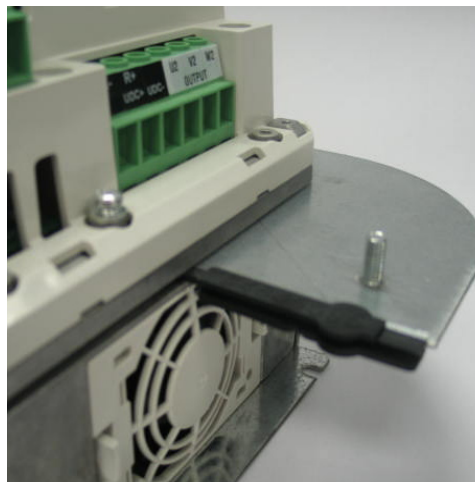
Assembly ACS800 R2-R3

NOTE: Exploded diagram drawings for ACS800 R2 and R3 are on page 14.

1. Place small inner edge sealer in groove between base and drive.



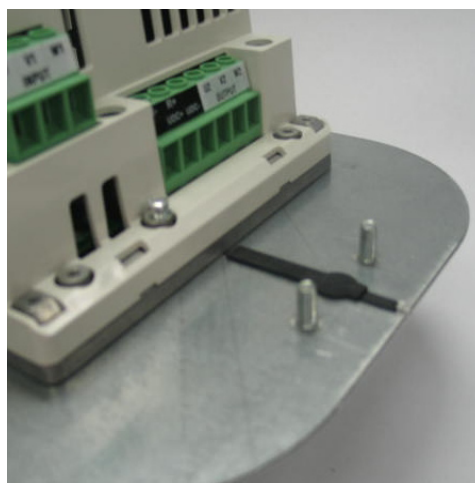
2. Insert sealing spacer on both ends of the left flange plate. The imprinted number on the spacer should face up.



3. With screw studs facing up, slide left flange plate into the groove between the base and the drive.

4. With screw studs facing up, slide right flange plate around the drive and into the groove between the base and the drive.

The right flange plate should also slide into the sealing spacers.

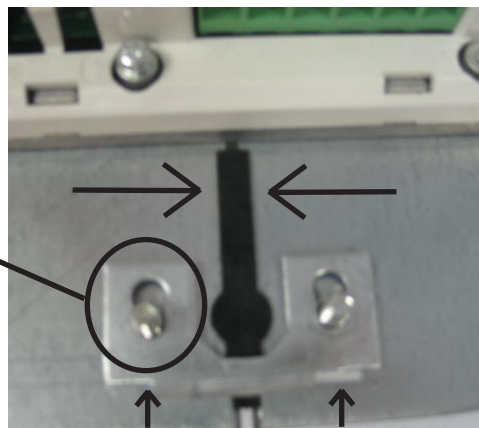




Assembly ACS800 R2-R3 (continued)

5. With hanging bracket feet facing towards the drive, place brackets on flange plate. Make sure they are slid to the innermost position as shown.

NOTE: This will compress the sealing spacer and help to properly align the flange brackets.



6. Place one (1) m6 nut with integrated washer on each bracket stud and, using a wrench, tighten each nut to 35 in-lbs, maintaining the bracket in the innermost position.



R2 and R3 Frame with sealing spaces and flange plates in place.

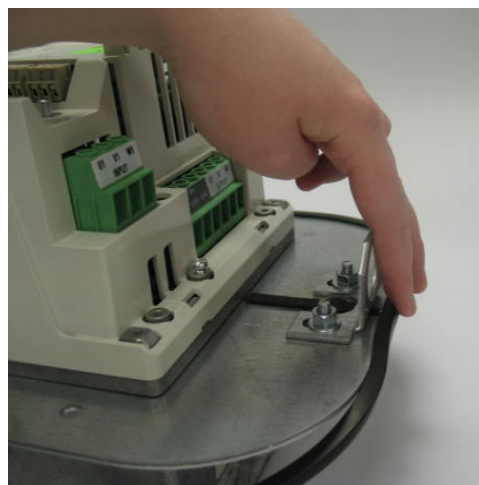
NOTE: There are (2) two sealing spacers and (2) two hanging brackets.

Shown with optional keypad



7. Insert the large outer edge sealer around the edge of the drive, pressing in toward the drive as you go to ensure it is in place. Once it is secure, smooth with fingers.

Be careful not to stretch the seal.



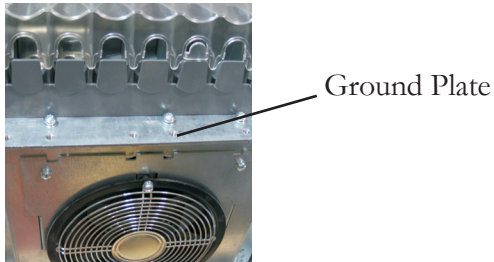


Assembly ACS800 R4-R6 and ACS550 R5-R6

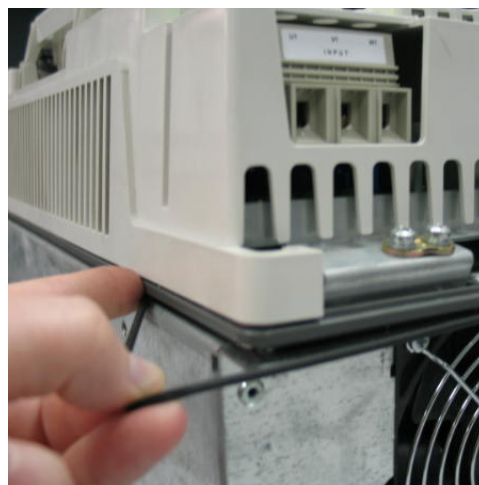
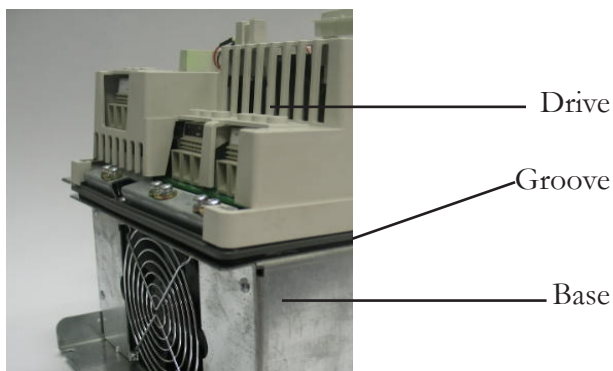
NOTE: Exploded diagram drawings for R4 frames are on page 15, for R5 frames on page 15 and for R6 frames on page 16.

For ACS800 R6 and ACS550 R6:

Remove the power cabling ground plate from just below the power terminal block. Save the grounding screws and clamps.



1. Place small inner edge sealer in groove between the base and drive.



2. Insert sealing spacer on both ends of the upper flange plate. The imprinted number on the spacer should face up.

3. With screw studs facing up, slide upper flange plate into the groove around the top left side of the drive between the base and the drive.

NOTE: The upper flange can be identified by the inner cut edge on the short side of the plate. The upper one has an arc to it on the short side, the lower inner cut edge is straight.



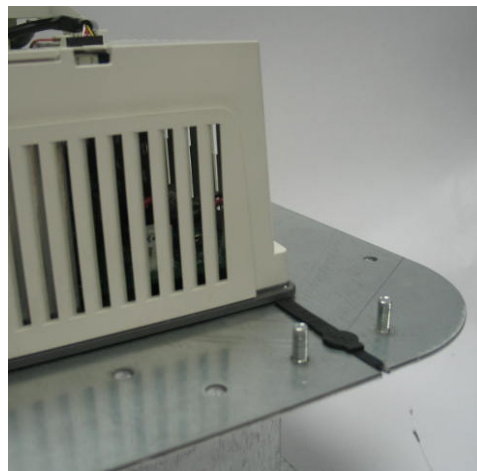


Assembly ACS800 R4-R6 and ACS550 R5-R6 (continued)

4. With screw studs facing up, slide lower flange plate around the bottom of the drive and into the groove between the base and the drive.

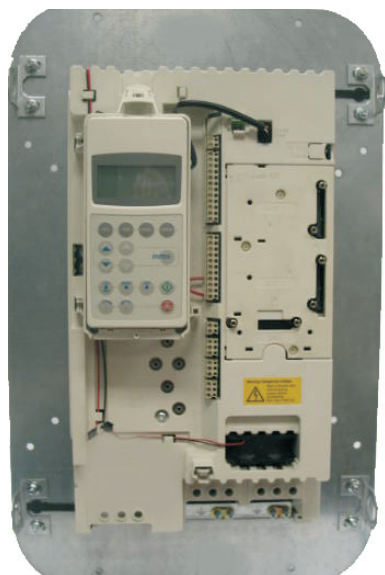
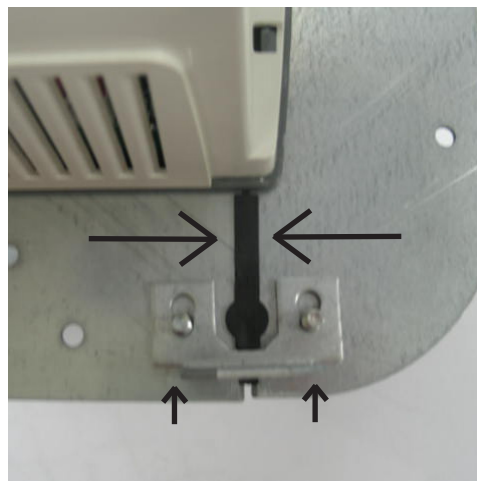
NOTE: The lower flange plate should also slide into the sealing spacers.

NOTE (Frame R6 only): Ensure the holes for the grounding screws are at the bottom of the drive. There should be more holes in the flange of the R6 at the bottom of the drive.



5. With hanging bracket feet facing towards the drive, place brackets on flange plate. Make sure they are slid to the innermost position as shown.

NOTE: This will compress the sealing spacer and help to properly align the flange brackets.



ACS800 R4 - R6 Frame with sealing spacers and flange plates in place.

NOTE: There are (2) two sealing spacers and (4) four hanging brackets

Shown with optional keypad



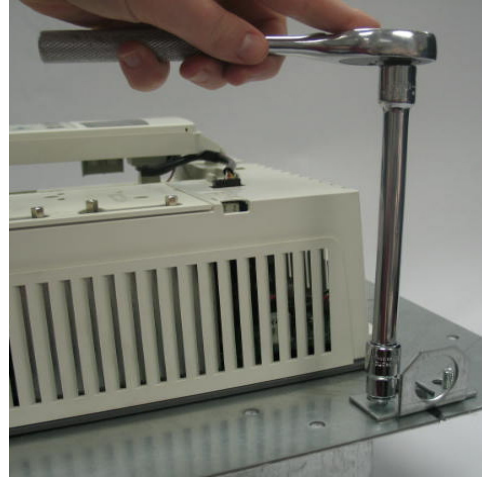
ACS550 R5 - R6 Frame with sealing spacers and flange plates in place.

NOTE: There are (2) two sealing spacers and (4) four hanging brackets



Assembly ACS800 R4-R6 and ACS550 R5-R6 (continued)

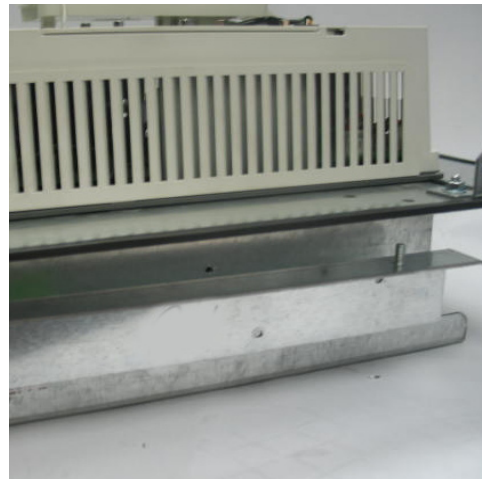
6. Place (1) one m6 nut with integrated washer on each bracket stud and, using a wrench, tighten each nut to 35 in-lbs, maintaining the bracket in the innermost position.



7. Place the support bracket underneath the plate and insert the screw studs through the holes in the flange plate. Position the bracket as shown.

R4 - Attach with 2 nuts and finger tighten only
R5 - Attach with 3 nuts and finger tighten only
R6 - Attach with 4 nuts and finger tighten only

NOTE: Ensure the holes in the mounting bracket are aligned with the holes in the base of the drive.



8. Using a Phillips head screwdriver, insert screws through the bracket into the base of the drive.

NOTE: It is recommended to get all three screws started before tightening them down to 12 in-lbs.





Assembly ACS800 R4-R6 and ACS550 R5-R6 (continued)

9. Torque each nut to 35 in-lbs.



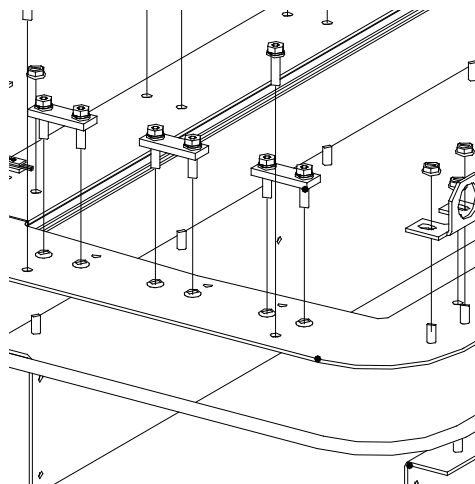
10. Repeat steps 7 - 9 with other mounting bracket on the opposite side of the drive.

11. Insert the large outer edge sealer around the edge of the drive, pressing in towards the drive as you go to ensure it is in place. Once it is secure, smooth with fingers.



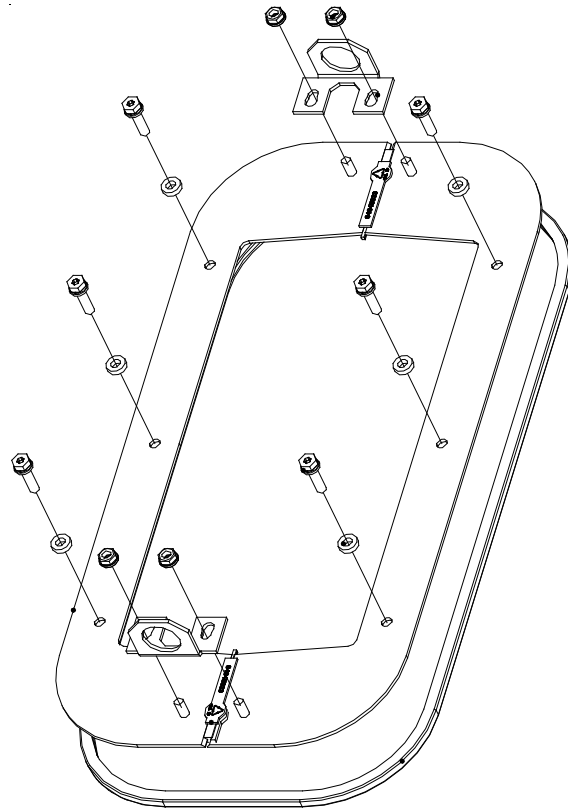
Frame R6 ACS800 only:

12. Install power cabling ground screws (removed in step 1) and clamps in the bottom of the flange. The ground plate removed in step one is not reused.

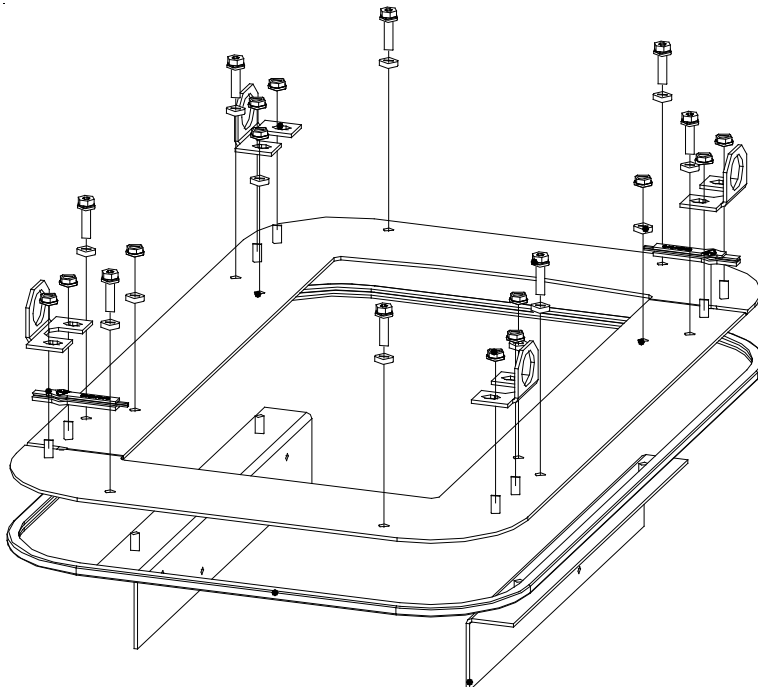




Exploded Diagram Drawing - ACS800 R2/R3

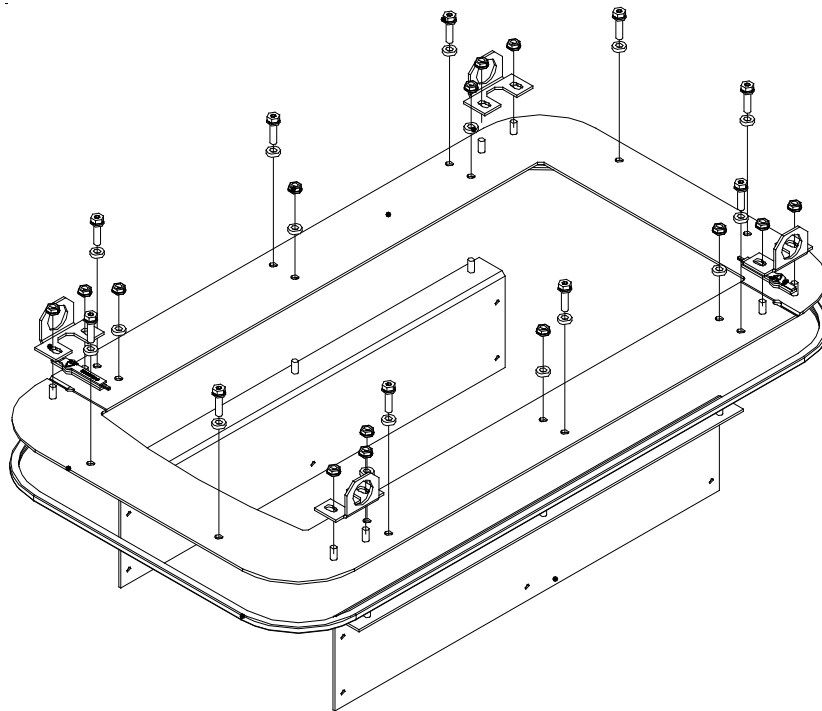


Exploded Diagram Drawing - ACS800 R4

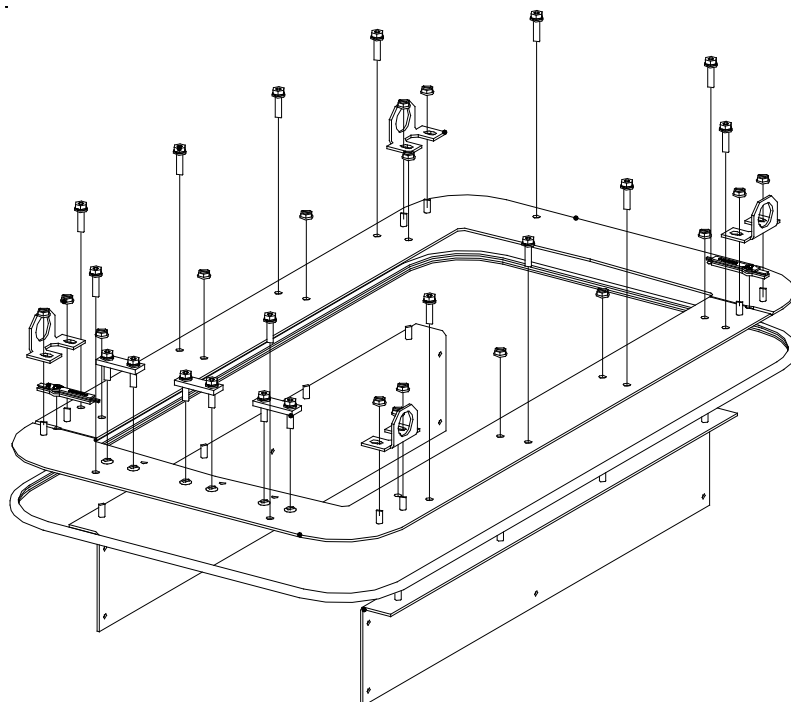




Exploded Diagram Drawing - ACS800 / ACS550 R5

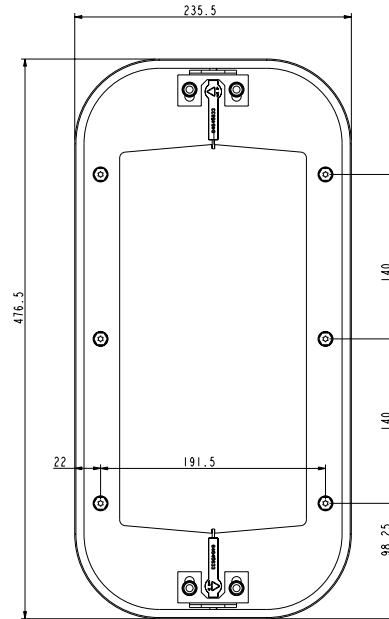


Exploded Diagram Drawing - ACS800 / ACS550 R6

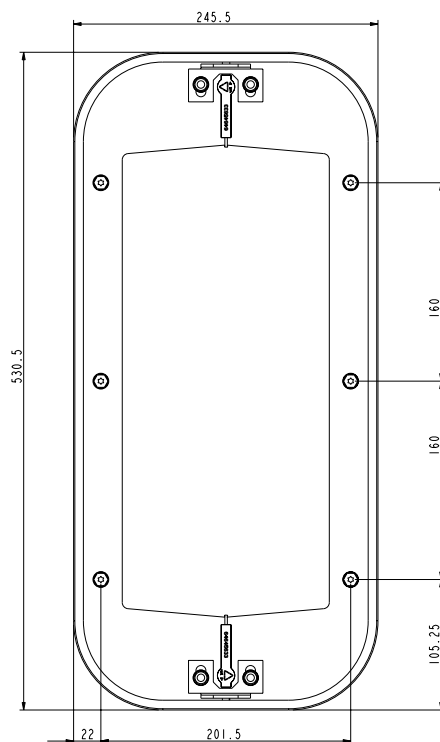


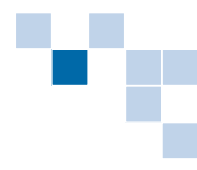


Dimensional Drawing - ACS800 R2

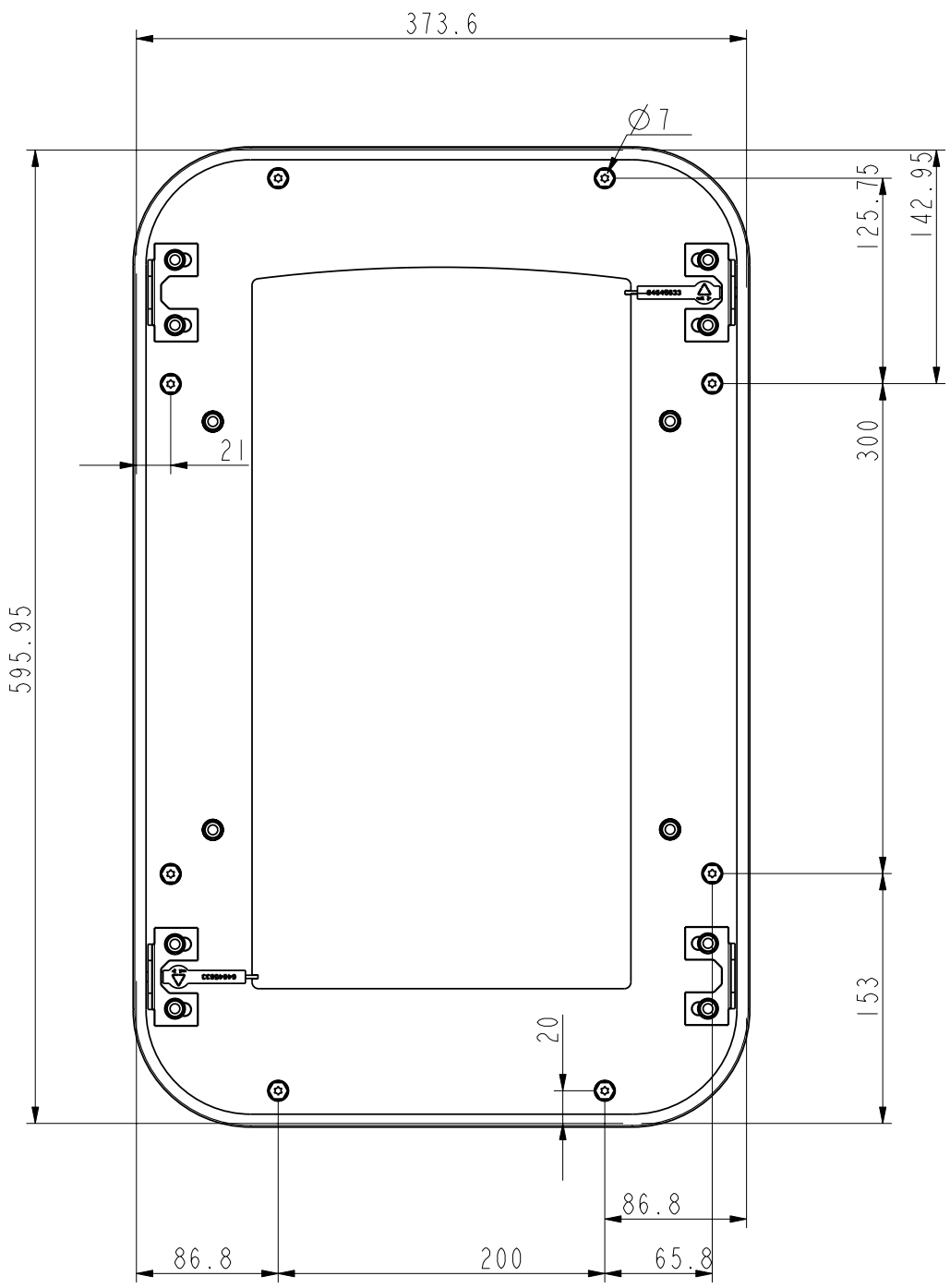


Dimensional Drawing - ACS800 R3



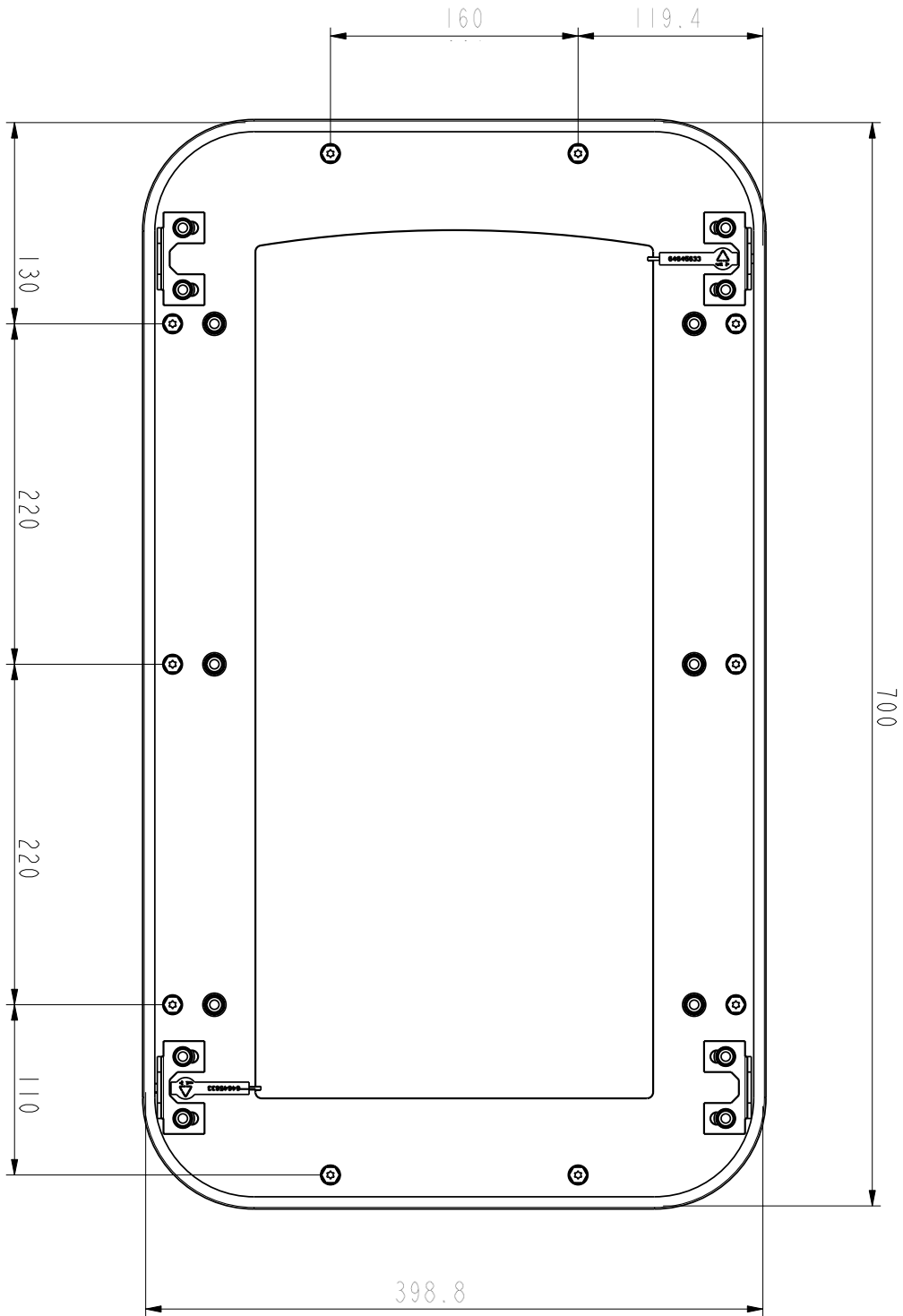


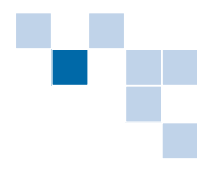
Dimensional Drawing - ACS800 R4





Dimensional Drawing - ACS800 / ACS550 R5





Dimensional Drawing - ACS800 / ACS550 R6

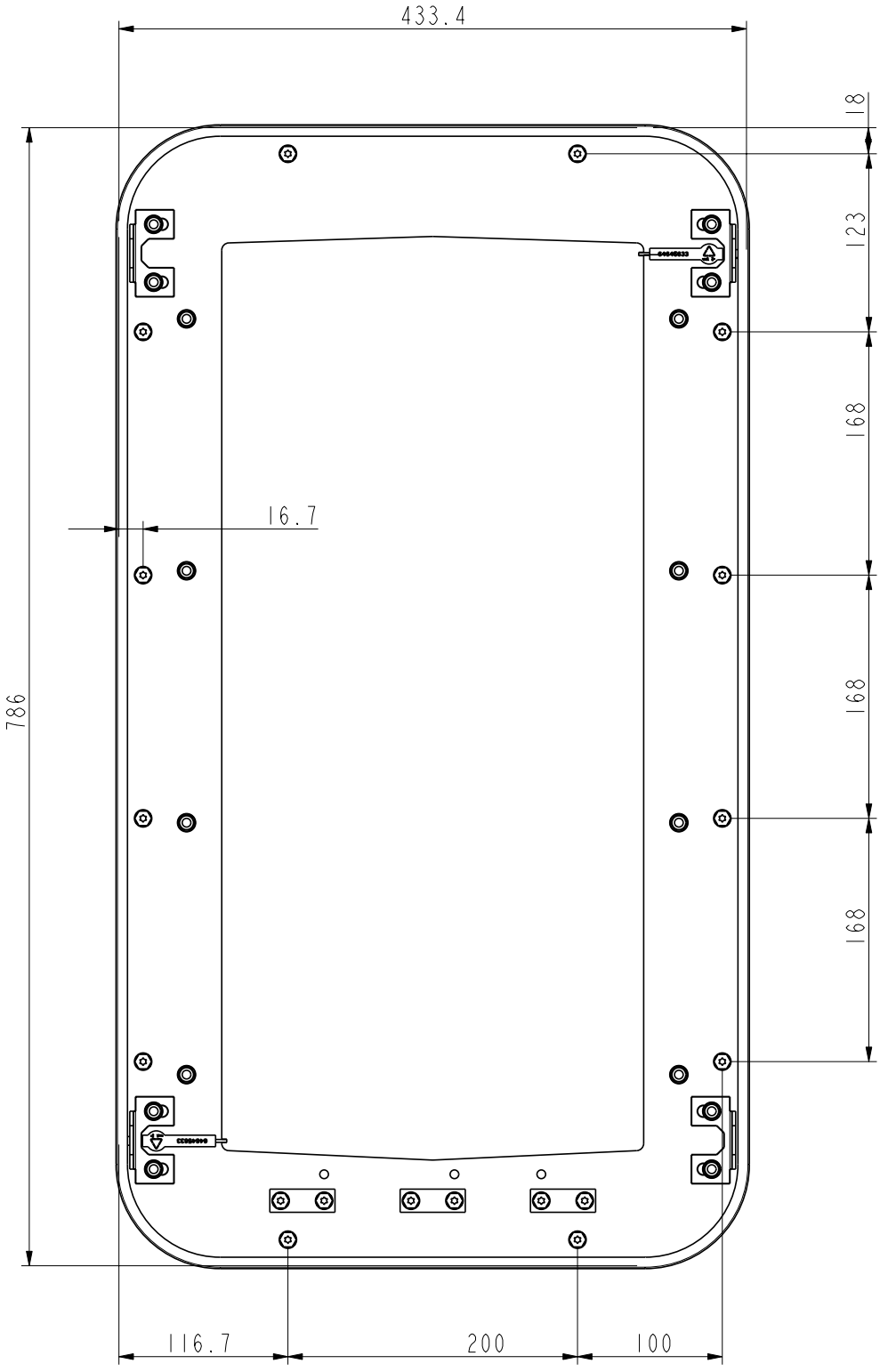




ABB Inc.
Low Voltage AC Drives
16250 W. Glendale Drive
New Berlin, WI 53151
Telephone (800) 752-0696
Fax (262) 785-0397
Internet <http://www.abb.us/drives>