

Z1000IP00 ATTACHMENT INSTRUCTION MANUAL

This manual is designed to ensure correct and suitable application of Variable Z1000-Series Drives. Read this manual before attempting to install, operate, maintain, or inspect a drive and keep it in a safe, convenient location for future reference. Be sure you understand all precautions and safety information before attempting application.

Caution: Please tighten the installation screws about the bracket and the attachment by specified tightening torque.
Dust is infiltrated when there is loosening in the screw, and the inverter might break down.

Caution: If the environment outside the diecast case is relatively harsh, then either a sealant or a gasket should be used as shown on page 9/11 to 11/11 to ensure that the attachment is firmly affixed.

Caution: The bracket and the attachment have the direction of the installation.
Please follow the content of the installation points chart.
Water and dust are infiltrated when the installation is mistaken, and the inverter might break down.

Table1 IP00 ATTACHMENT CODE LIST

Drive Model CIMR-ZU□	Product Code	Product Text	Parts List	GW	Recommended Mounting Hardware (Not Provided)
2A0011 2A0017 4A0005 4A0008 4A0011	100-067-550	72606 -EZZ021811A	Bracket(Qty.2) Screw M5×14+S+W(Qty.8)	0.9lb (0.4kg)	Screw M5×14 (Qty.4)
2A0024 2A0031 4A0014 4A0021 4A0027	100-067-551	72606 -EZZ021811B	Bracket(Qty.2) Screw M5×14+S+W(Qty.8)	1.3lb (0.6kg)	Screw M5×14 (Qty.4)
2A0046 2A0059 4A0034 4A0040	100-067-552	72606 -EZZ021811C	Bracket (Qty.2) Screw M5×14+S+W(Qty.4)	0.7lb (0.3kg)	Screw M6×14 (Qty.4)
2A0075 2A0088 2A0114 4A0052 4A0065 4A0077 4A0096	100-067-553	72606 -EZZ021811D	Bracket (Qty.2) Screw M5×14+S+W(Qty.2) Screw M6×14+S+W(Qty.2)	0.9lb (0.4kg)	Screw M6×14 (Qty.4)

This document explains how to install the attachment needed for an external, protruding heatsink for an Open-chassis Z1000. Both drive dimensions and attachment dimensions are included.

Drive models covered in this document:

CIMR-ZU2A0011~0273

CIMR-ZU4A0005~0302

Dimension of Inverter that Installs attachment.

(This drawing shows how to set up CIMR-ZU2A0046~0059, 4A0034~0040.)

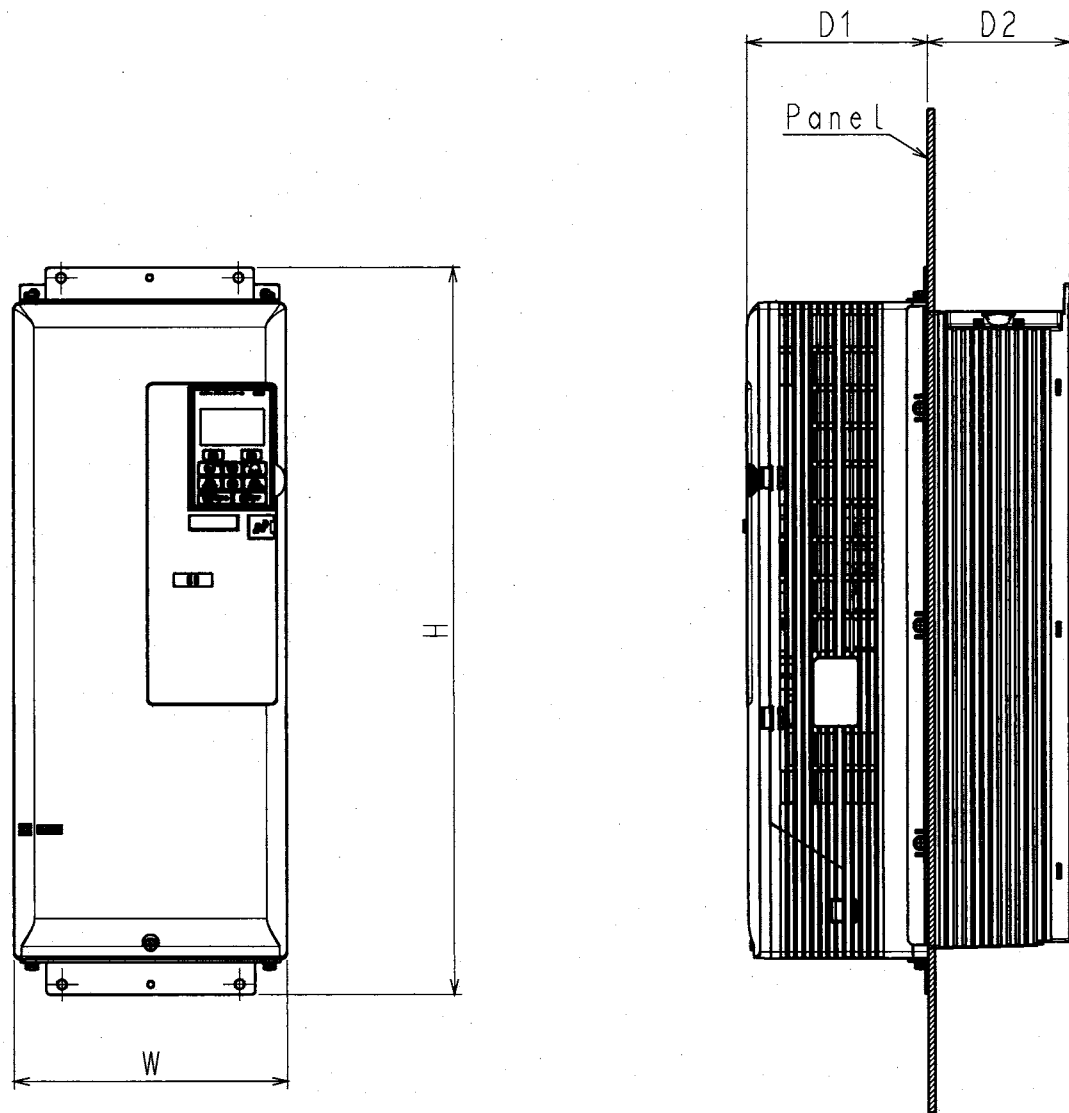


Table2 Dimension of Inverter that Installs attachment.

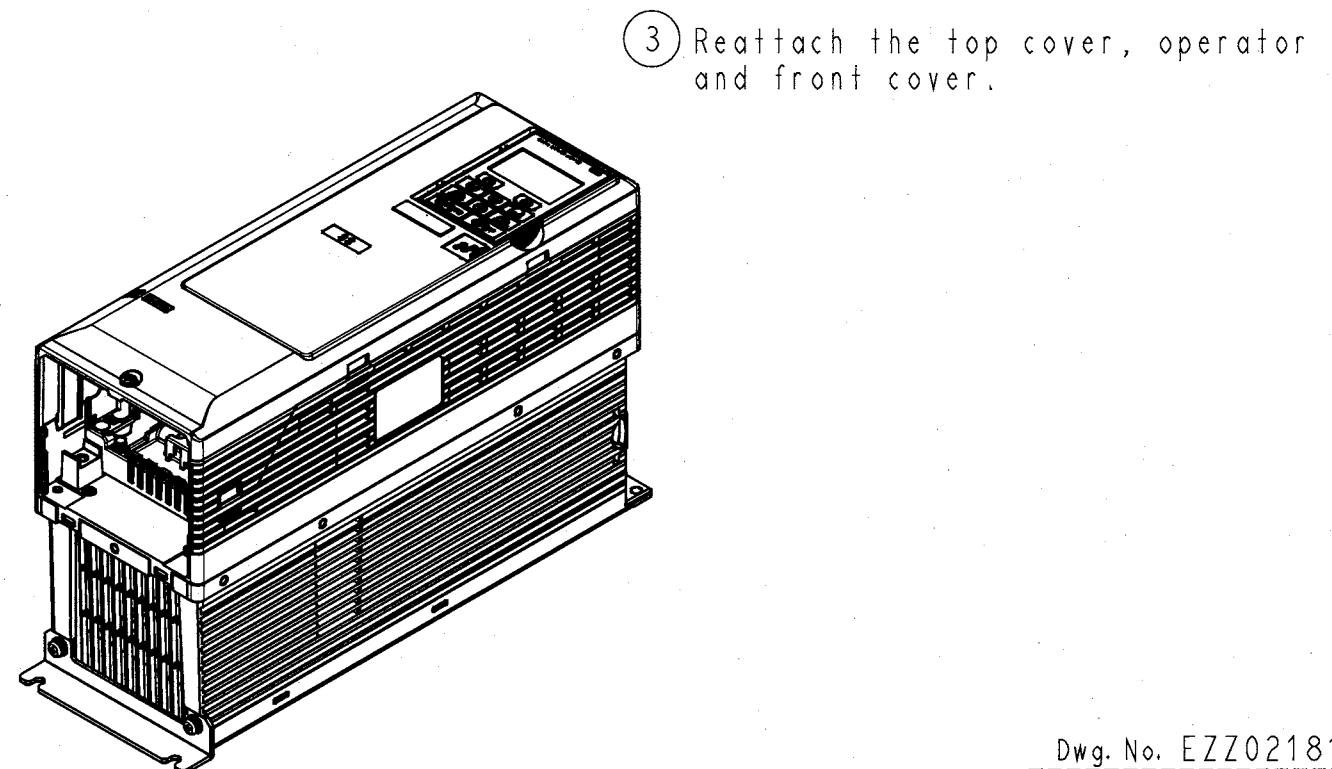
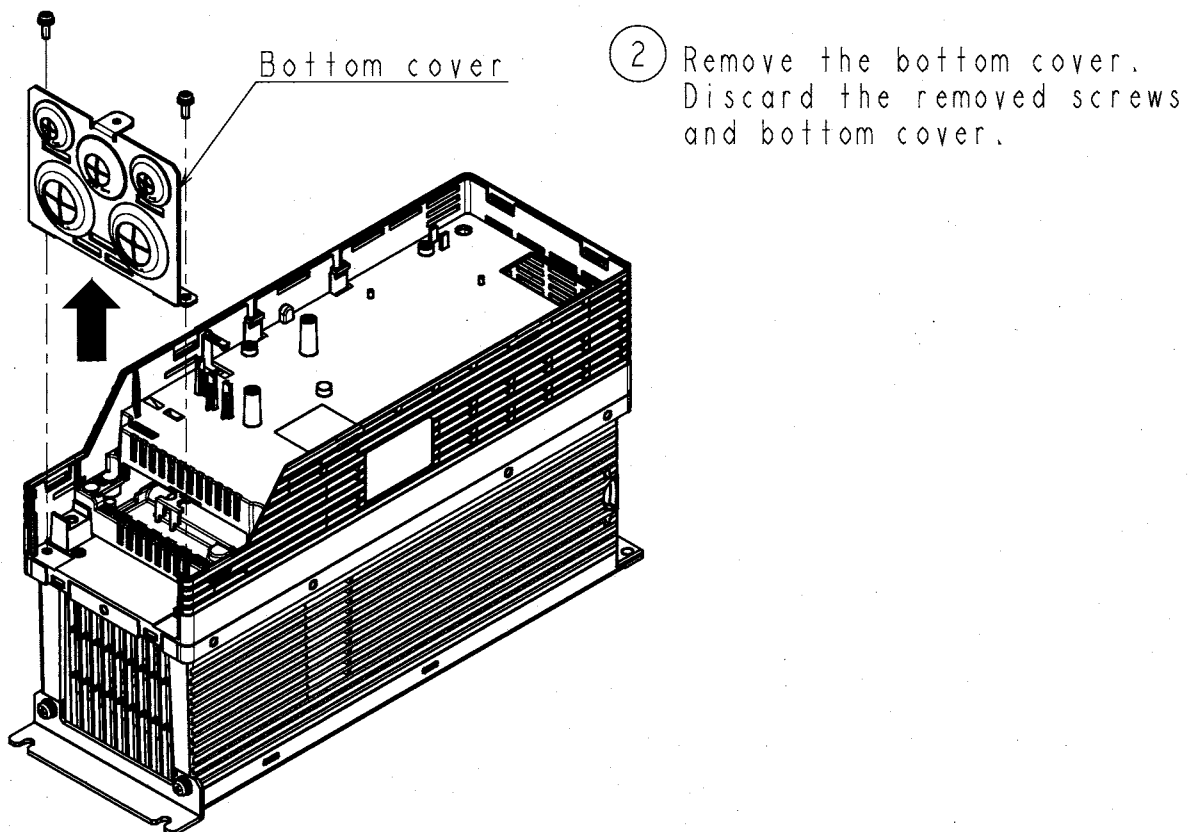
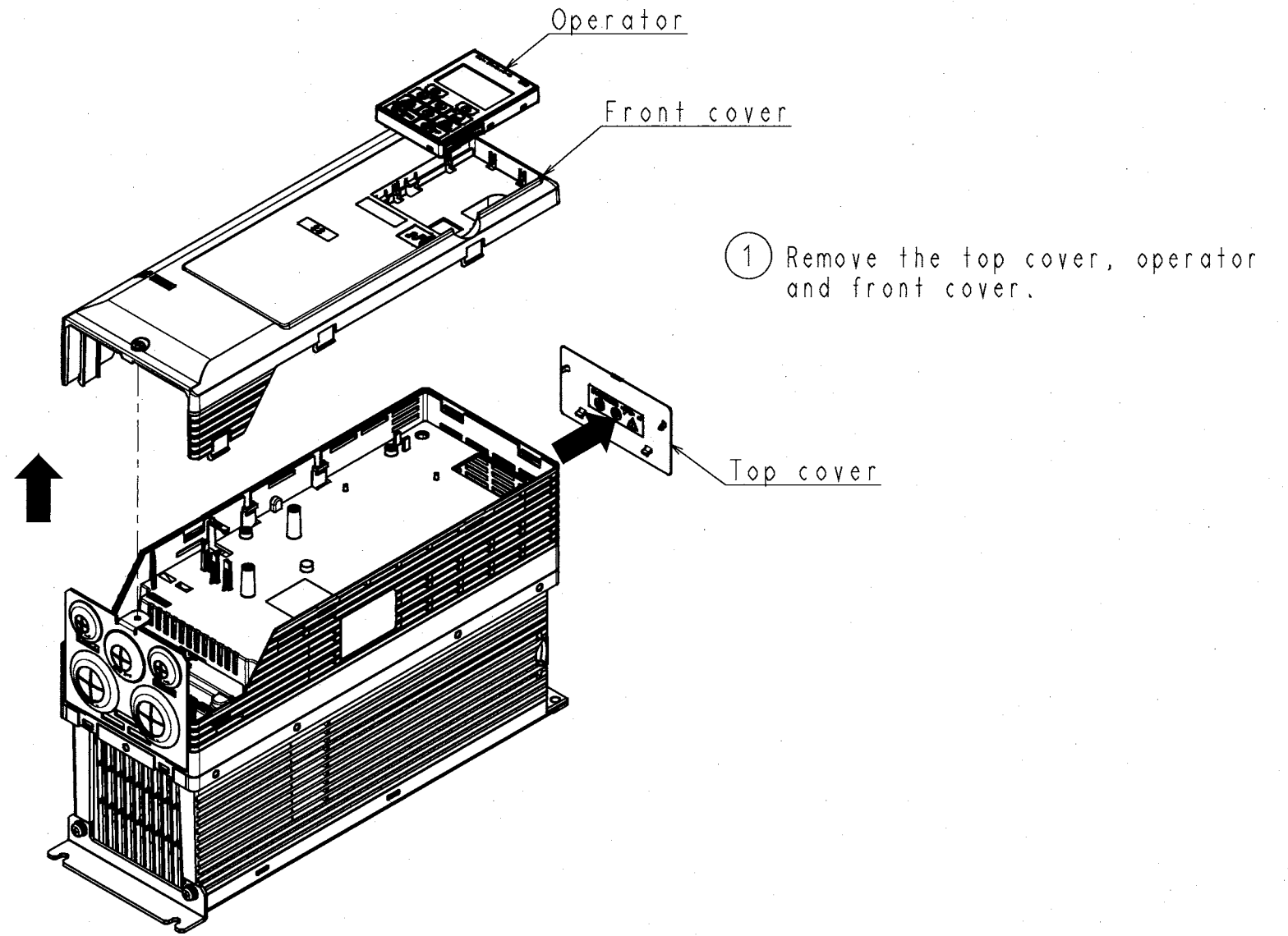
Drive Model CIMR-ZU□	Dimension(in,(mm))			
	W	H	D1	D2
2A0011 2A0017 4A0005 4A0008 4A0011	6.69 (170)	14.76 (375)	4.43 (112.5)	4.15 (105.5)
2A0024 2A0031 4A0014 4A0021 4A0027	6.69 (170)	18.31 (465)	5.02 (127.5)	4.15 (105.5)
2A0046 2A0059 4A0034 4A0040	7.87 (200)	20.98 (533)	5.24 (133)	4.11 (104.5)
2A0075 2A0088 2A0114 4A0052 4A0065 4A0077 4A0096	12.01 (305)	22.44 (570)	6.18 (157)	4.19 (106.5)
4A0124	10.87 (276)	28.40 (721.4)	5.16 (131)	6.22 (158)
2A0143 2A0169 2A0211 2A0273 4A0156 4A0180 4A0240	13.39 (340)	31.61 (803)	8.63 (219.2)	7.12 (180.8)
4A0302	17.91 (455)	41.93 (1065)	9.85 (250.2)	9.06 (230)

INSTALLATION PROCEDURE

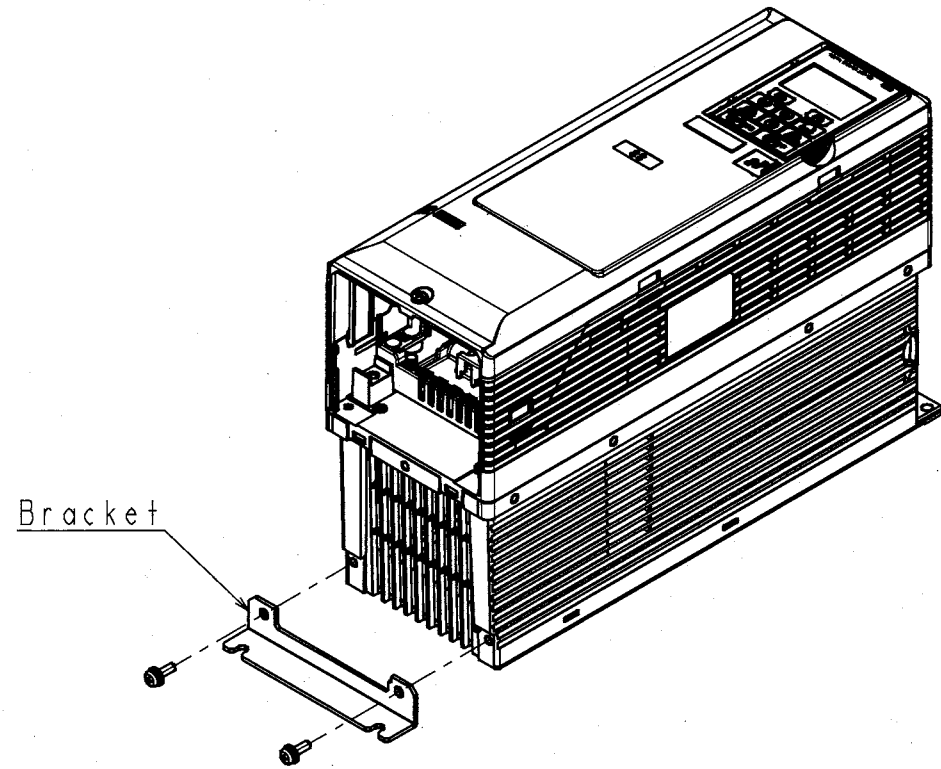
This drawing applies to the following models:

Drive Model	Screw	Tightening Torque
CIMR-ZU2A0011~0017 4A0005~0011	M5×14(Qty. 8)	17.7~22.1(lb·in) (2.0~2.5(N·m))
CIMR-ZU2A0024~0031 4A0014~0027	M5×14(Qty. 8)	17.7~22.1(lb·in) (2.0~2.5(N·m))

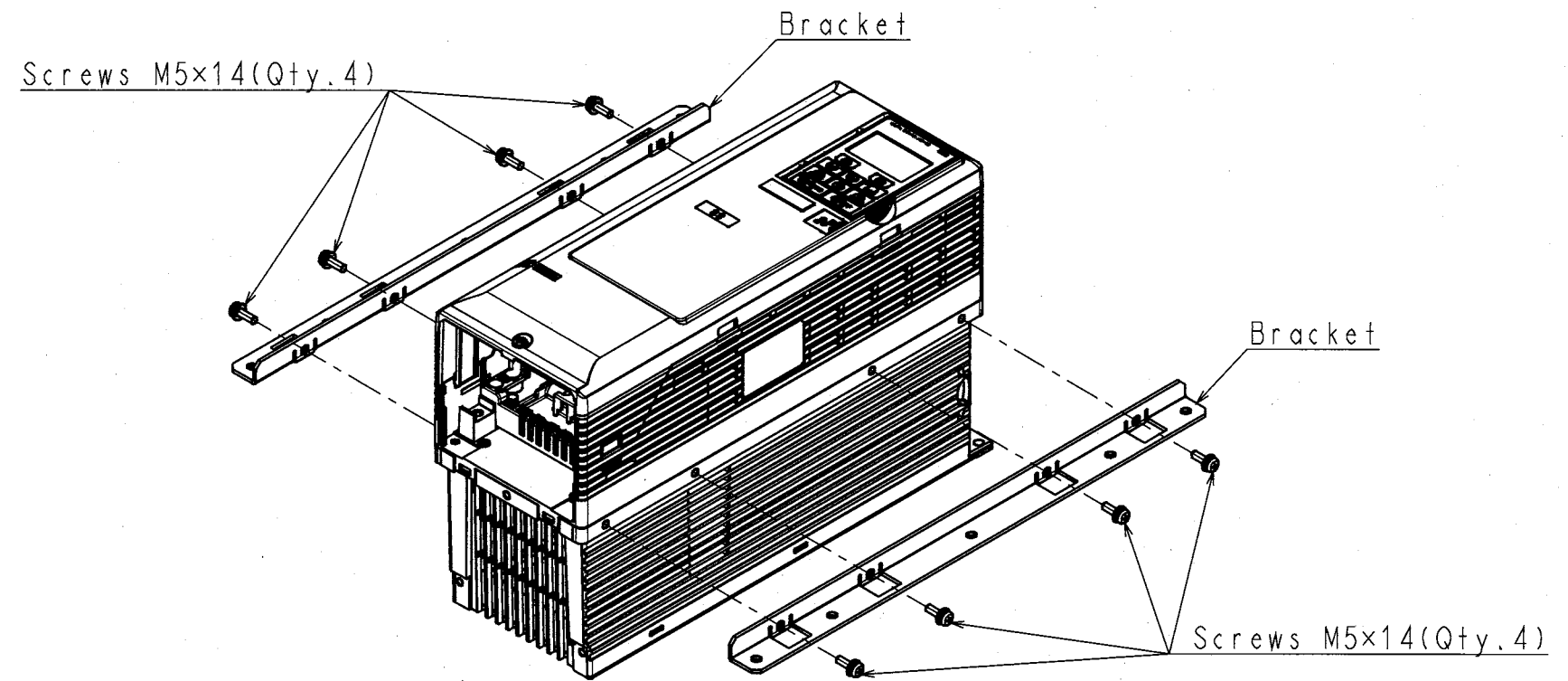
This drawing shows how to set up CIMR-ZU2A0011-0017, 4A0005-0011.



- ④ Remove the bracket.
Discard the removed screws and removed bracket.

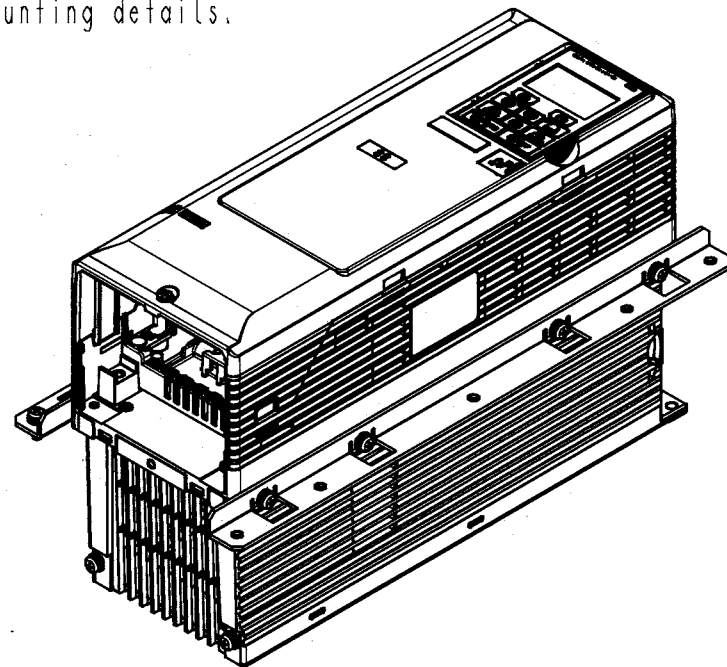


- ⑤ Attach the brackets on the both side of the inverter by attached screws.



INSTALLATION COMPLETE

Attach the inverter to the end use panel.
Refer to Page 10 for mounting details.



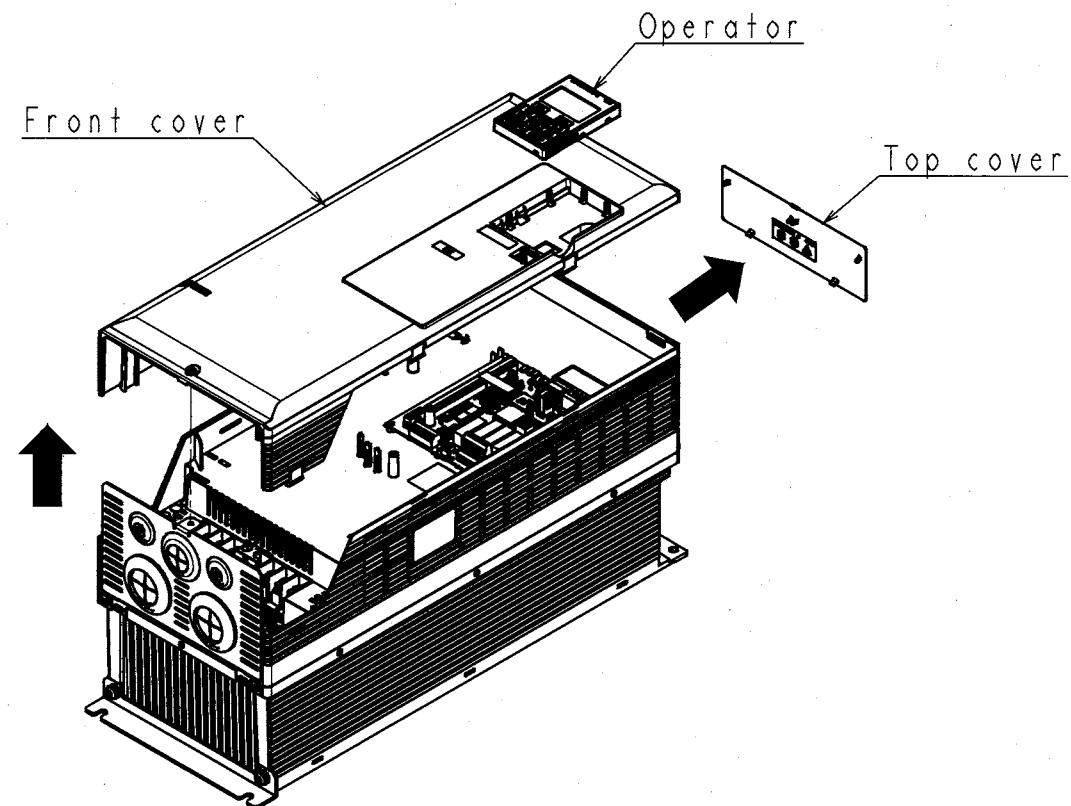
INSTALLATION PROCEDURE

This drawing applies to the following models:

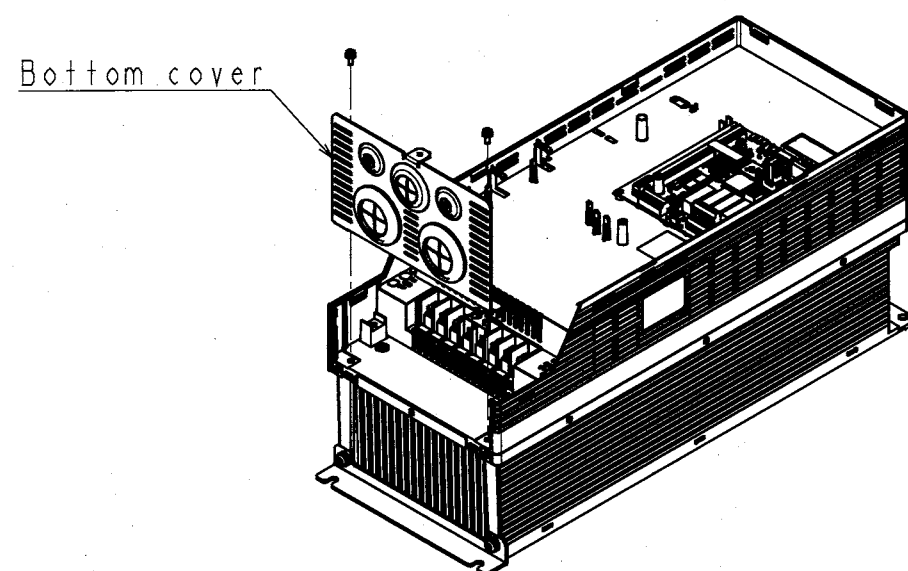
Drive Model	Screw	Tightening Torque
CIMR-ZU2A0046~0059 4A0034~0040	M5×14(Qty. 4)	17.7~22.1(lb·in) (2.0~2.5(N·m))
CIMR-ZU2A0075~0114 4A0052~0096	M5×14(Qty. 2)	17.7~22.1(lb·in) (2.0~2.5(N·m))
	M6×14(Qty. 2)	35.4~43.3(lb·in) (4.0~4.9(N·m))

This drawing shows how to set up CIMR-ZU2A0046-0059, 4A0034-0040.

- ① Remove the top cover, operator and front cover.

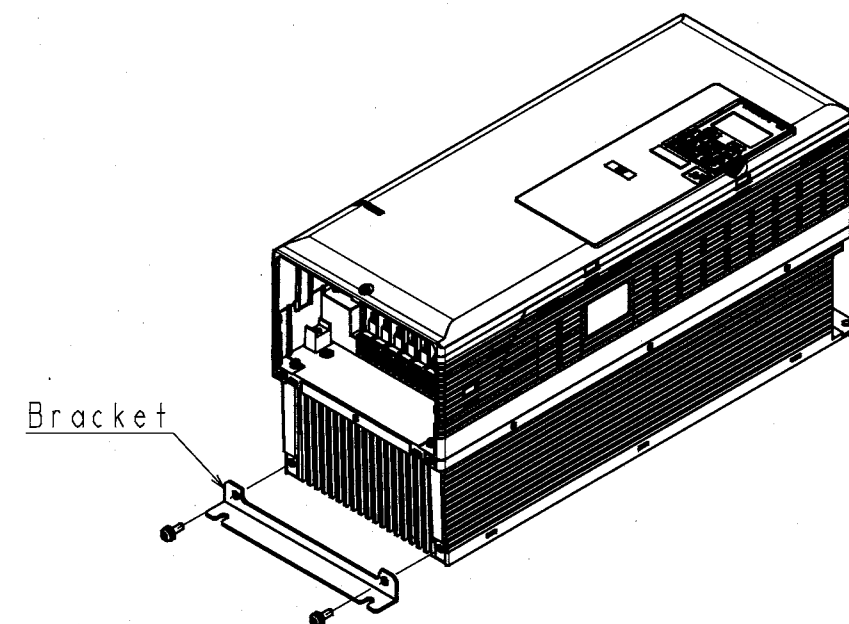


- ② Remove the bottom cover.
Discard the removed screws.

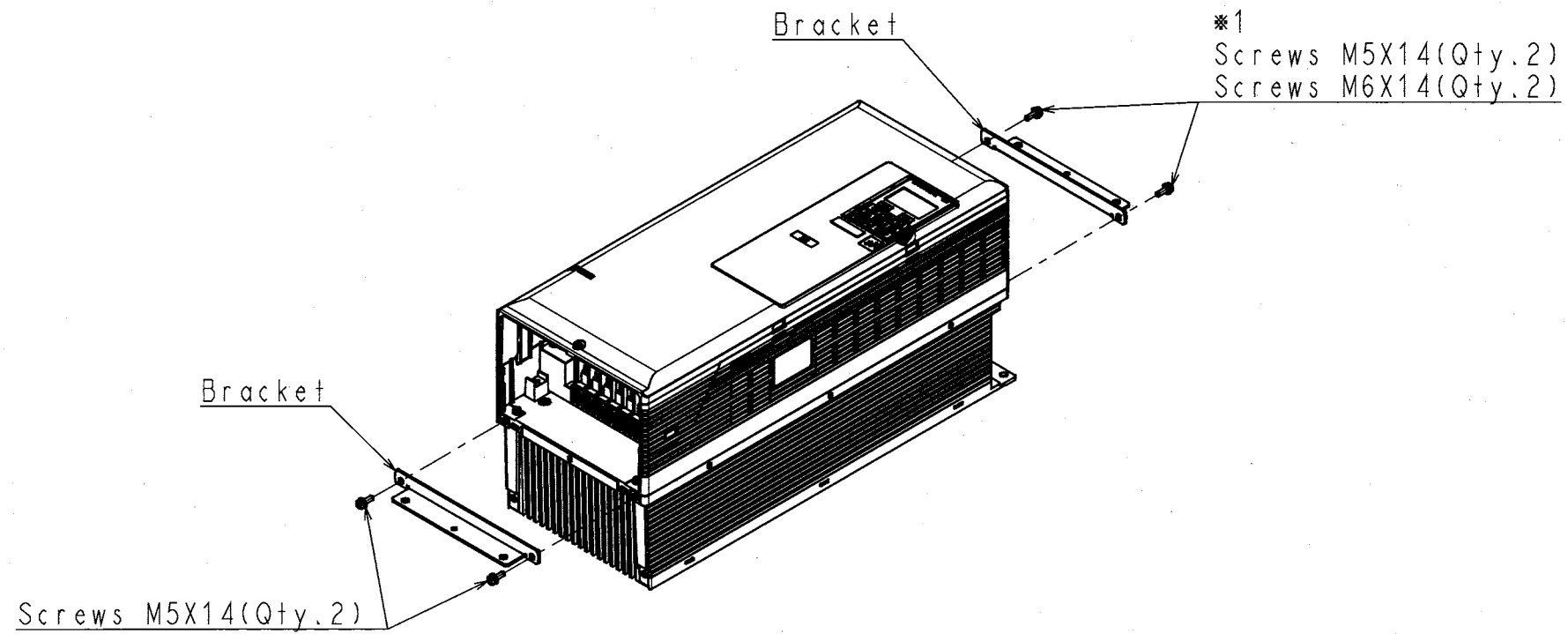


- ③ Reattach the top cover, operator and front cover.
Remove the bracket.

CIMR-ZU2A0046~0059, 4A0034~0040
Discard the removed screws and removed bracket.
CIMR-ZU2A0075~0114, 4A0052~0096
Discard the removed screws.



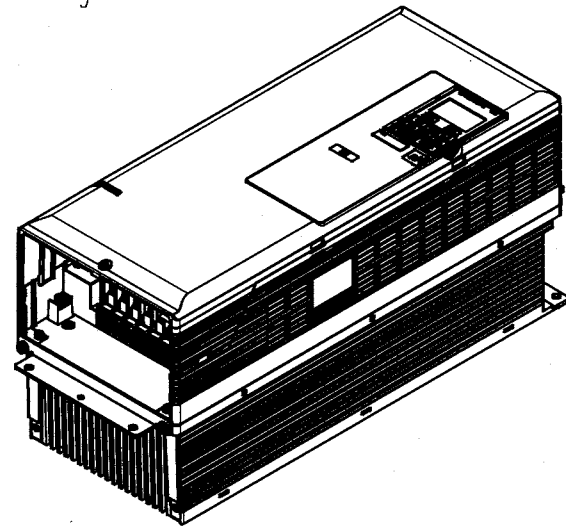
④ Attach the brackets on the top and bottom of the inverter by attached screws.



*1
Screws M5X14:CIMR-ZU2A0046~0059
4A0034~0040
Screws M6X14:CIMR-ZU2A0075~0114
4A0052~0096

INSTALLATION COMPLETE

Attach the inverter to the end use panel.
Refer to Page 10 for mounting details.

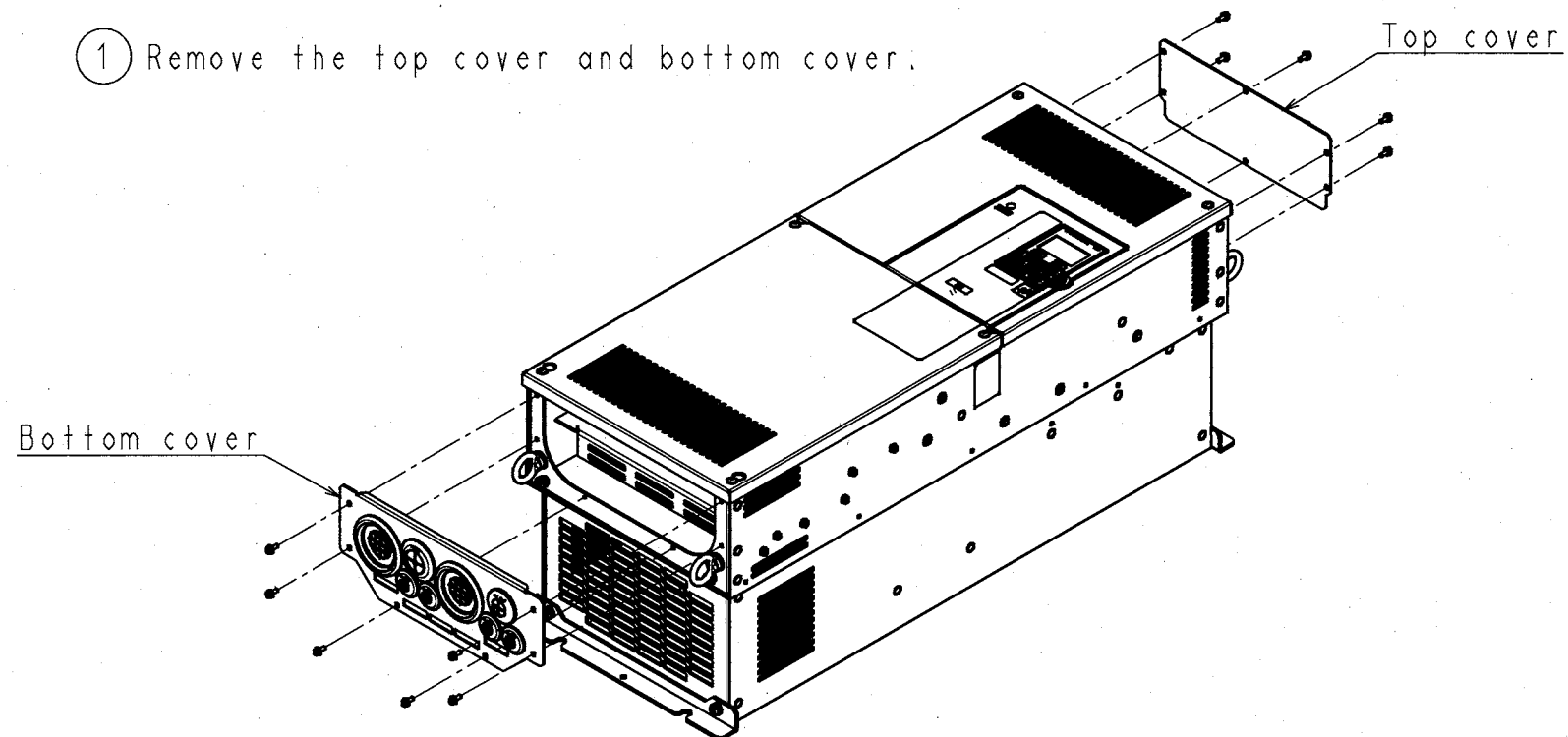


INSTALLATION PROCEDURE

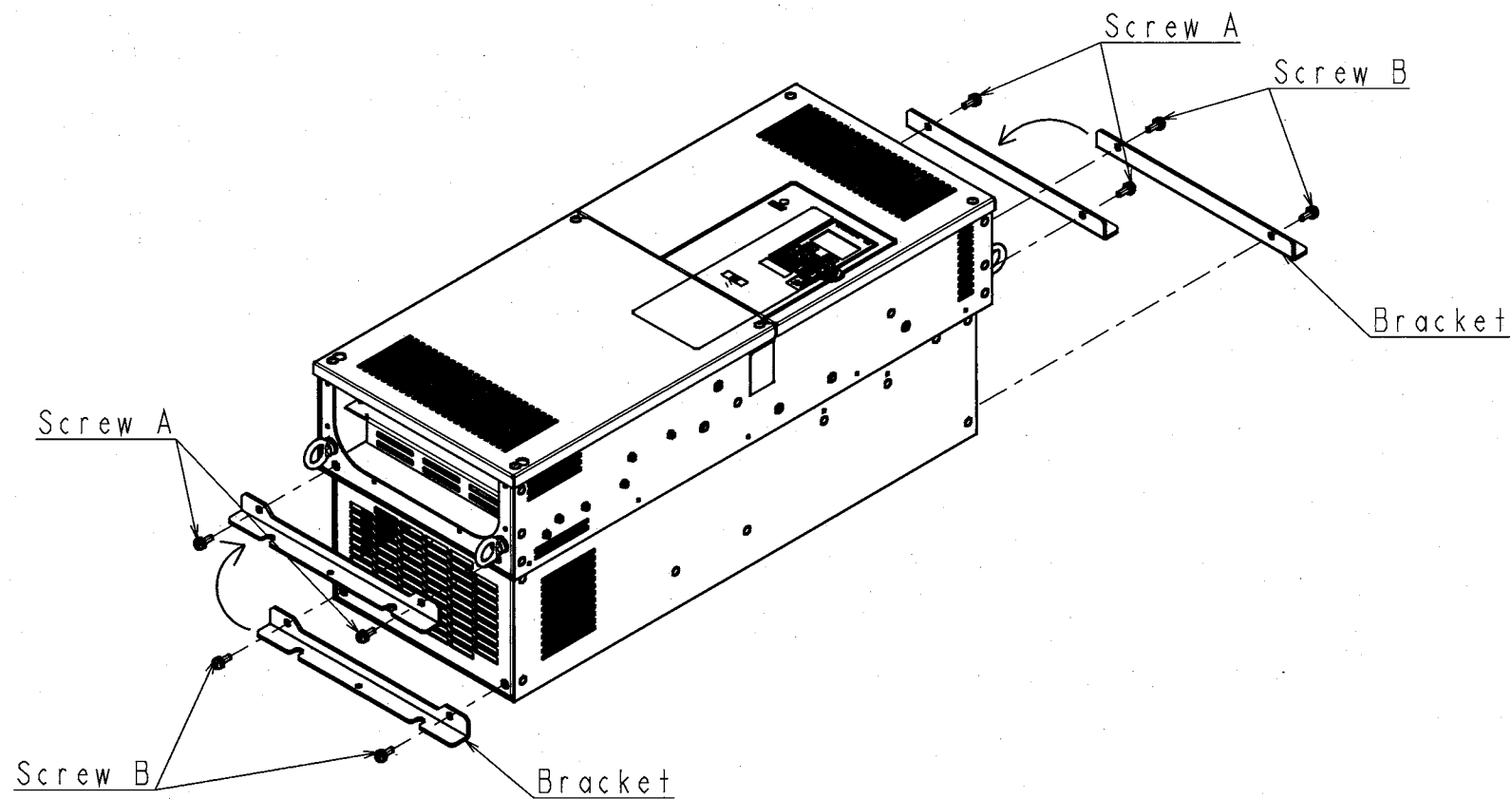
This drawing applies to the following models:

Drive Model
CIMR-ZU4A0124

① Remove the top cover and bottom cover.

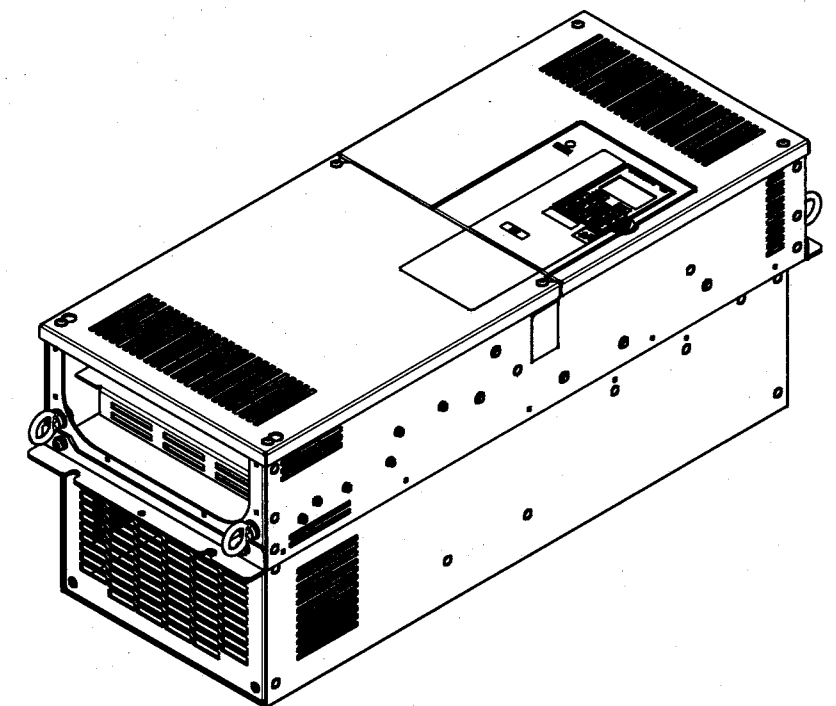


② Fix the brackets by screws A after remove the screws A, B and brackets. Discard the removed screws B.



INSTALLATION COMPLETE

Attach the inverter to the end use panel.
Refer to Page 10 for mounting details.



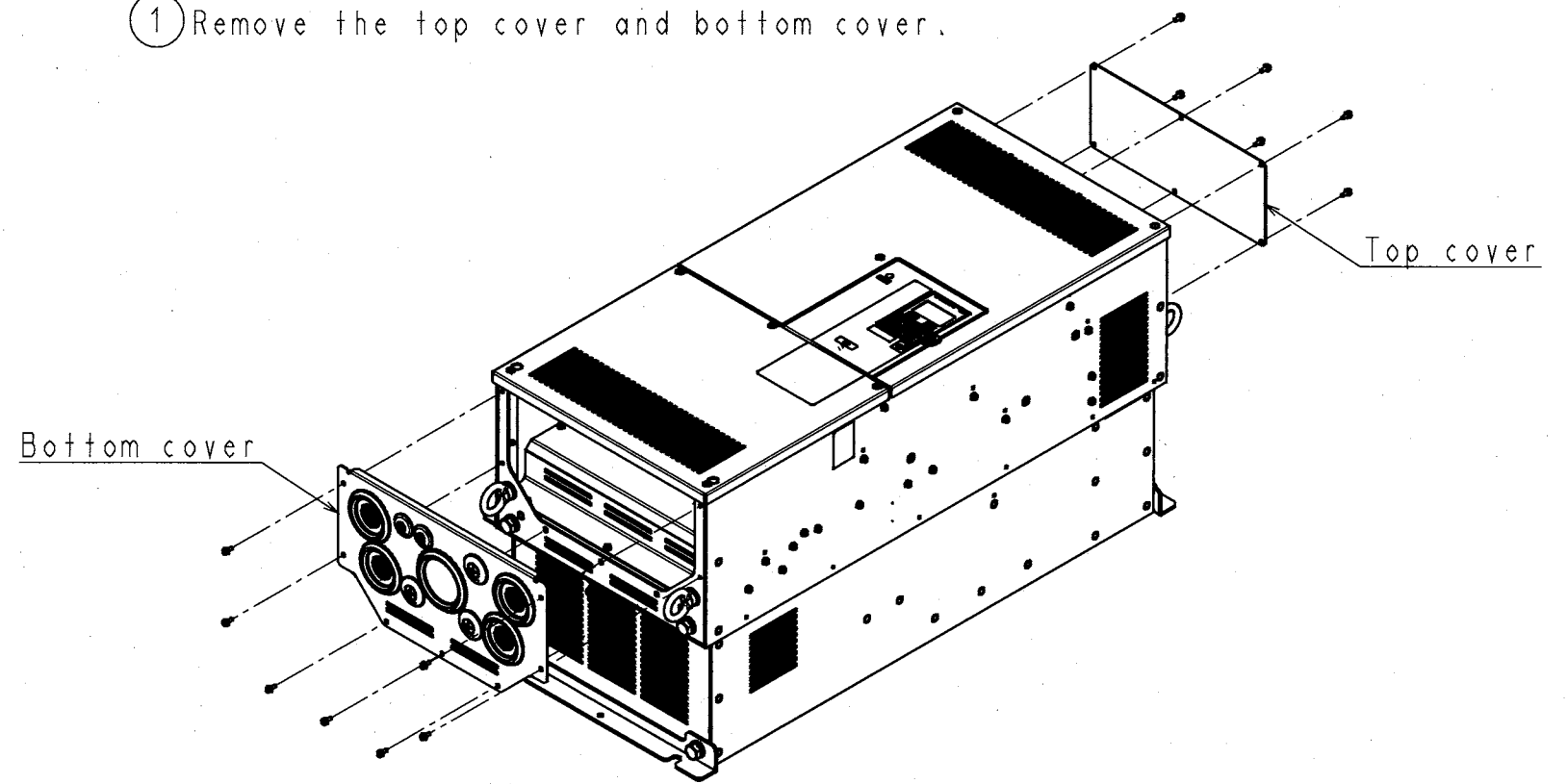
INSTALLATION PROCEDURE

This drawing applies to the following models:

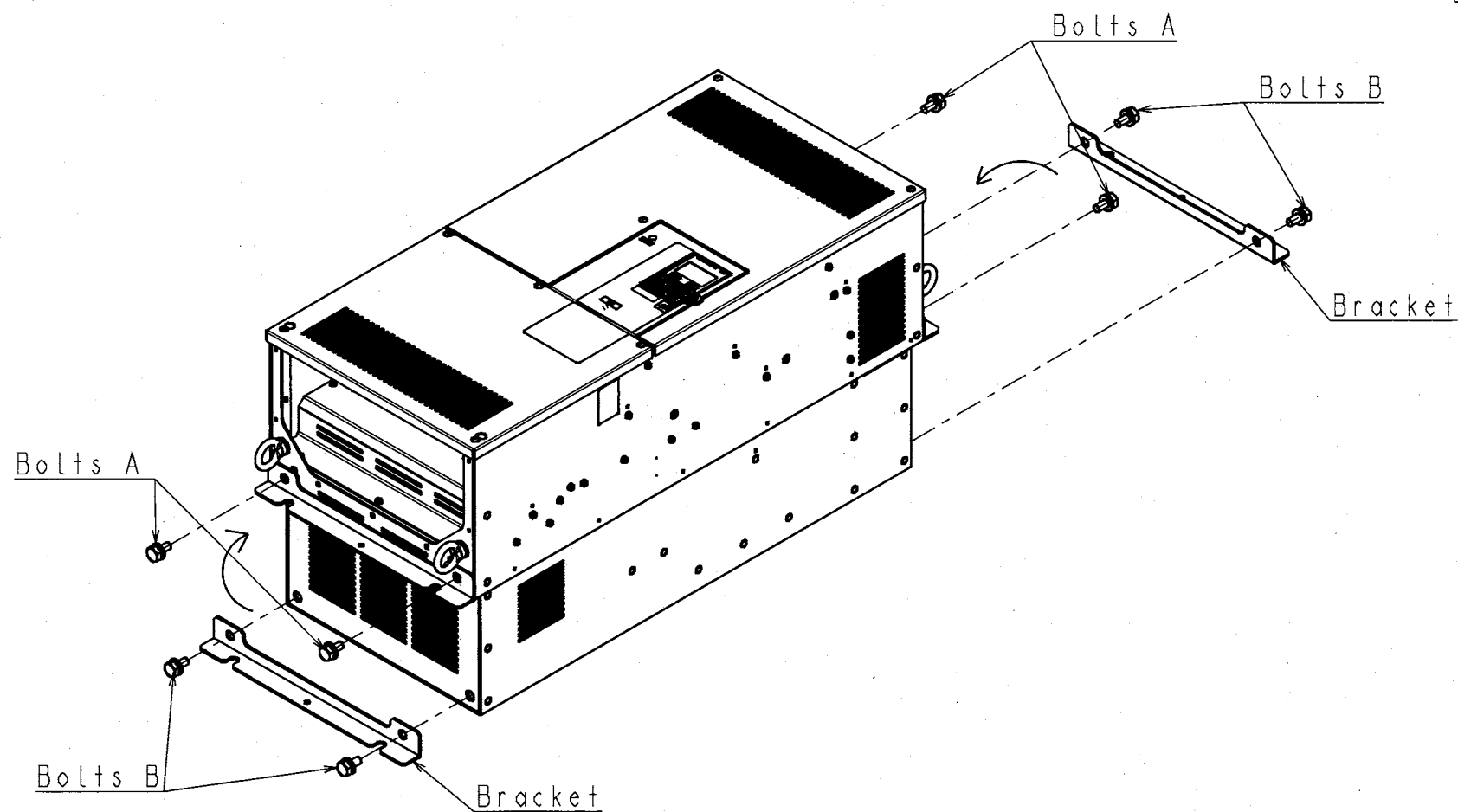
Drive Model
CIMR-ZU2A0143~0273 4A0156~0240
CIMR-ZU4A0302

This drawing shows how to set up CIMR-ZU2A0143-0273, 4A0156-0240.

① Remove the top cover and bottom cover.



② Fix the brackets by bolts A after remove the bolts A, B and brackets. Discard the removed bolts B.



INSTALLATION COMPLETE

Attach the inverter to the end use panel.
Refer to Page 11 for mounting details.

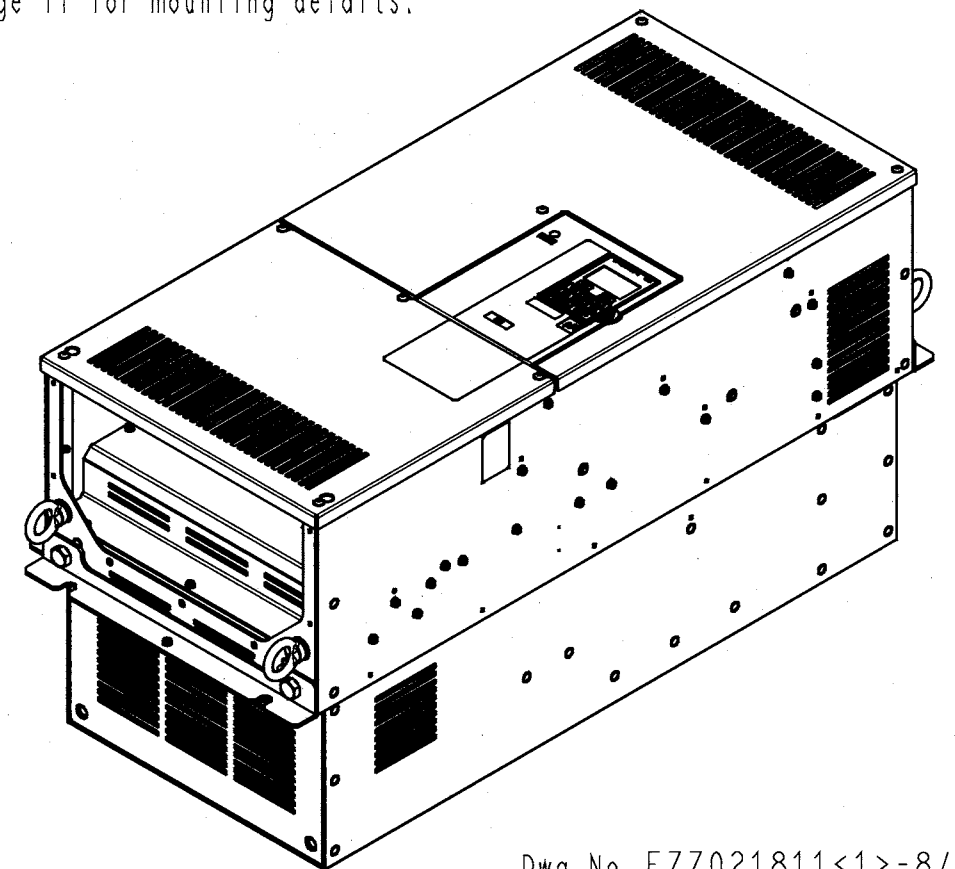


Table4 Panel Cut Dimension

Drive Model CIMR-ZU□	Dimension(in, (mm))										
	Figure	W	H	W1	H1	H2	H3	H4	H5	A	B
200V Class											
2A0011 2A0017	1	6.69 (170)	14.76 (375)	5.91 (150)	13.98 (355)	-	-	-	-	4.65 (118)	12.76 (324)
2A0024 2A0031	1	6.69 (170)	18.31 (465)	5.91 (150)	17.52 (445)	-	-	-	-	4.65 (118)	16.30 (414)
2A0046 2A0059	2	7.87 (200)	20.98 (533)	5.12 (130)	20.47 (520)	-	-	-	-	7.64 (194)	18.62 (473)
2A0075 2A0088 2A0114	2	12.01 (305)	22.44 (570)	11.22 (285)	21.85 (555)	-	-	-	-	9.41 (239)	20.00 (508)
2A0143 2A0169 2A0211 2A0273	4	13.39 (340)	31.61 (803)	9.61 (244)	30.75 (781)	0.95 (24.2)	0.45 (11.5)	1.21 (30.8)	0.41 (10.5)	12.83 (326)	28.58 (726)
400V Class											
4A0005 4A0008 4A0011	1	6.69 (170)	14.76 (375)	5.91 (150)	13.98 (355)	-	-	-	-	4.65 (118)	12.76 (324)
4A0014 4A0021 4A0027	1	6.69 (170)	18.31 (465)	5.91 (150)	17.52 (445)	-	-	-	-	4.65 (118)	16.30 (414)
4A0034 4A0040	2	7.87 (200)	20.98 (533)	5.12 (130)	20.47 (520)	-	-	-	-	7.64 (194)	18.62 (473)
4A0052 4A0065 4A0077 4A0096	2	12.01 (305)	22.44 (570)	11.22 (285)	21.85 (555)	-	-	-	-	9.41 (239)	20.00 (508)
4A0124	3	10.87 (276)	28.40 (721.4)	6.69 (170)	27.77 (705.4)	0.81 (20.5)	0.35 (9)	0.86 (21.9)	0.28 (7)	10.20 (259)	26.10 (663)
4A0156 4A0180 4A0240	4	13.39 (340)	31.61 (803)	9.61 (244)	30.75 (781)	0.95 (24.2)	0.45 (11.5)	1.21 (30.8)	0.41 (10.5)	12.83 (326)	28.58 (726)
4A0302	5	17.91 (455)	41.93 (1065)	12.80 (325)	40.87 (1038)	1.10 (28)	0.55 (14)	1.14 (29)	0.51 (13)	17.13 (435)	38.62 (981)

Inverter Mounting
Recommended Hardware
(Not Provided)

Screw M5×14(Qty. 4)
Tightening Torque
17.7~22.1(lb·in)
(2.0~2.5(N·m))

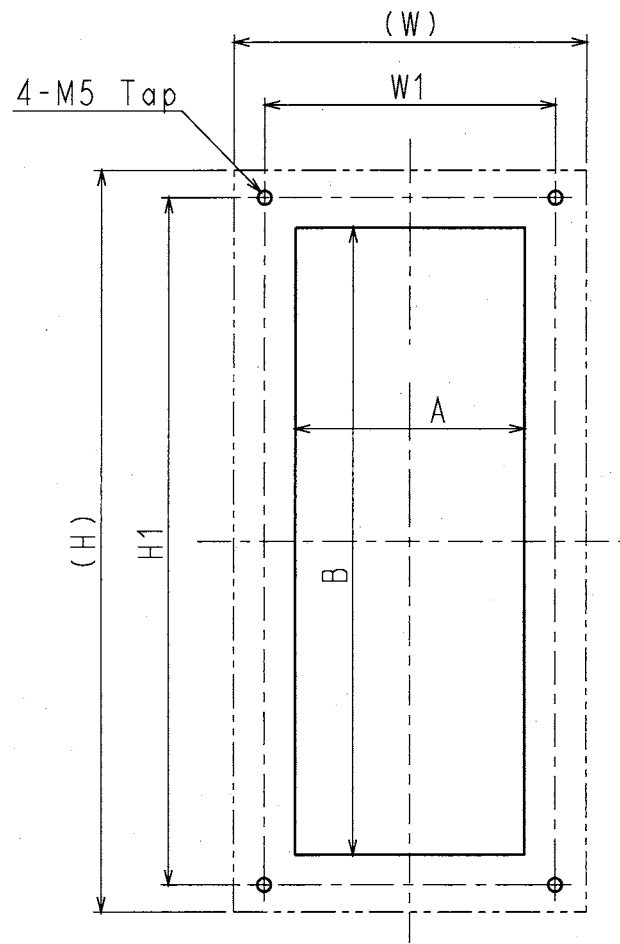


Figure 1

Inverter Mounting
Recommended Hardware
(Not Provided)

Screw M6×14(Qty. 4)
Tightening Torque
35.4~43.3(lb·in)
(4.0~4.9(N·m))

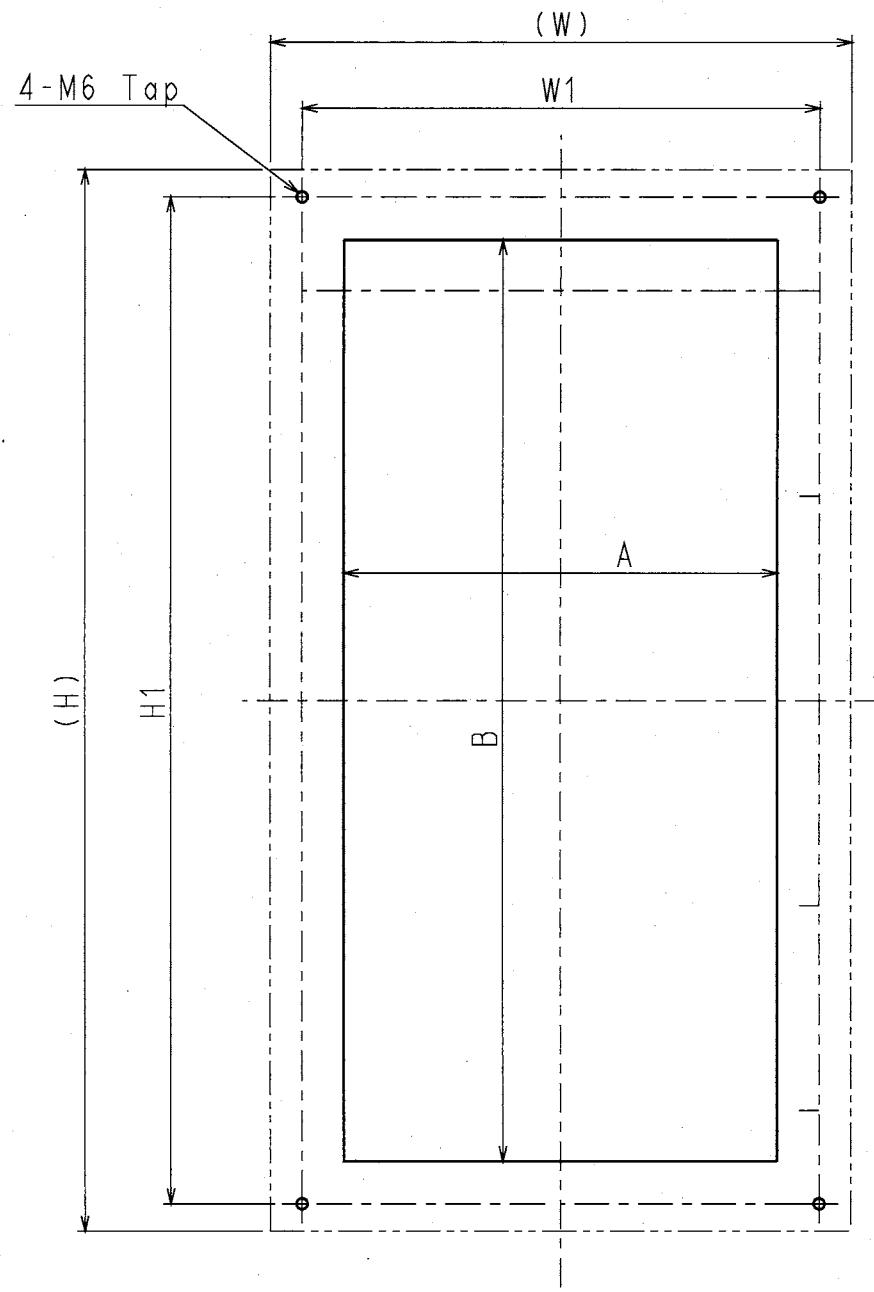


Figure 2

Inverter Mounting
Recommended Hardware
(Not Provided)

Screw M8×20(Qty. 4)
Tightening Torque
79.7~94.6(lb·in)
(9.0~10.7(N·m))

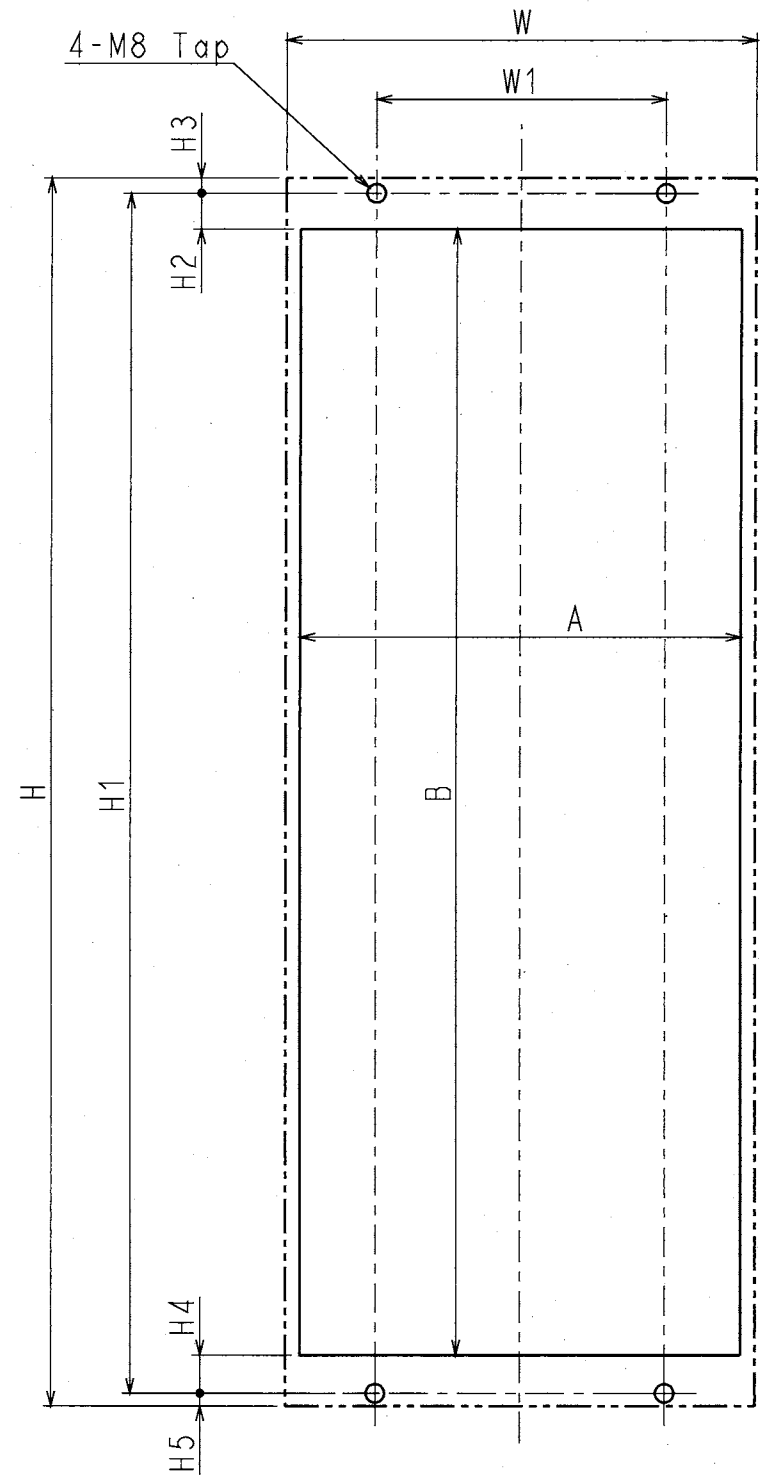


Figure 3

Inverter Mounting
Recommended Hardware
(Not Provided)

Screw M10×20(Qty.4)
Tightening Torque
156.7~199.1 (lb·in)
(17.7~22.5(N·m))

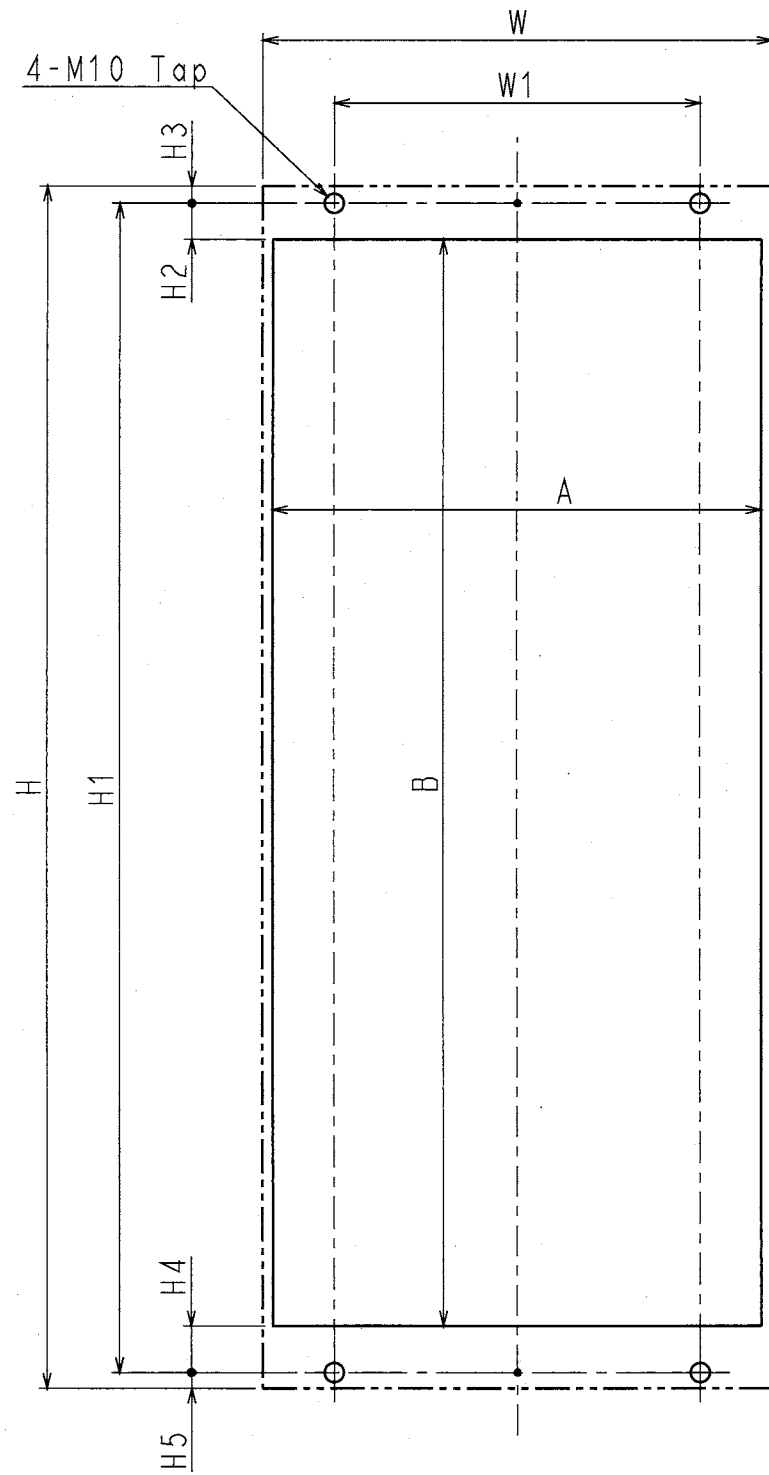


Figure 4

Inverter Mounting
Recommended Hardware
(Not Provided)

Screw M12×20(Qty.4)
Tightening Torque
277.9~346.9 (lb·in)
(31.4~39.2(N·m))

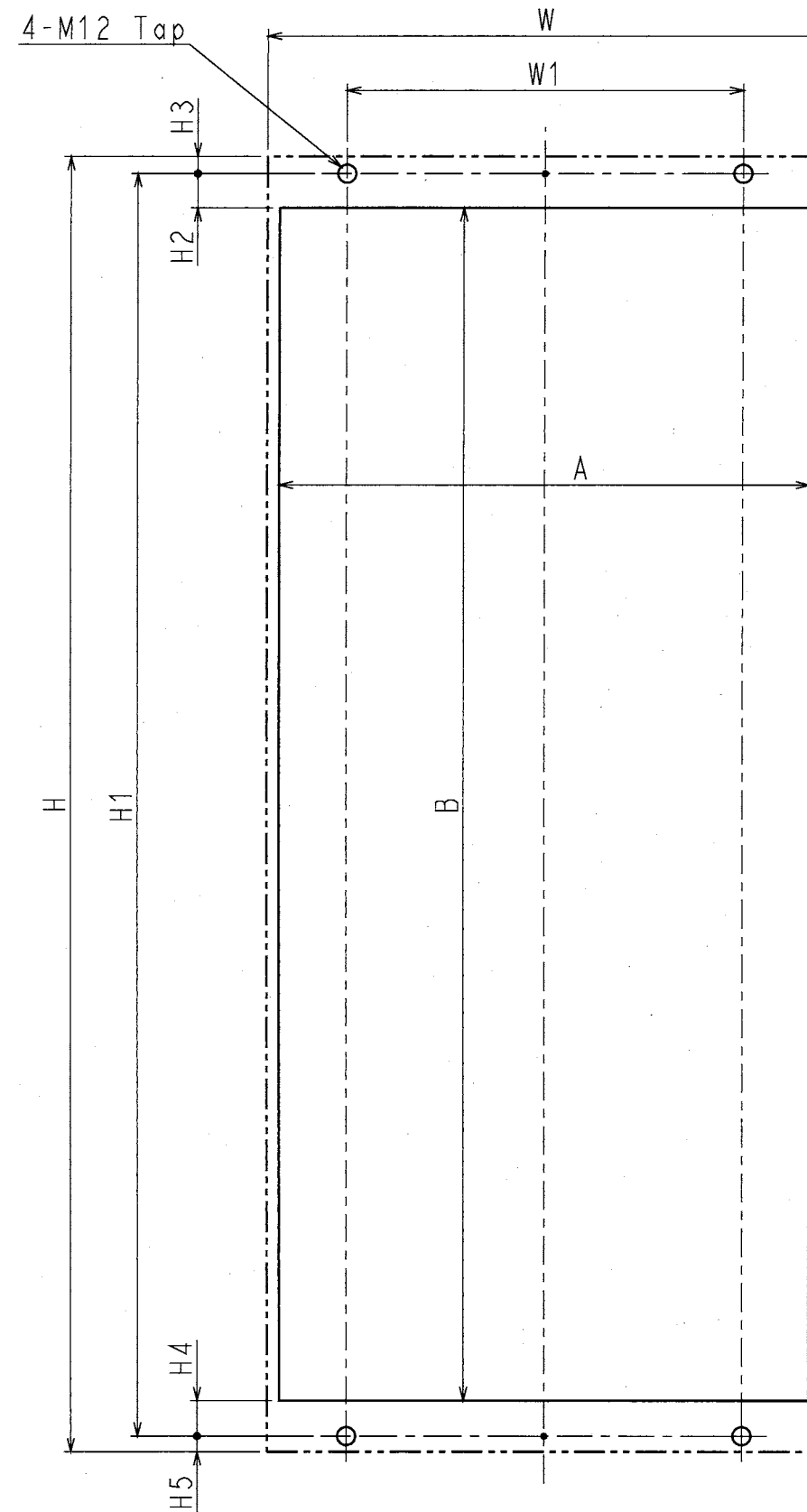


Figure 5