

Z1000TYPE12 ATTACHMENT INSTRUCTION MANUAL

Table1 TYPE12 ATTACHMENT CODE LIST

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.
Water and dust are infiltrated when there is loosening in the screw, and the inverter might break down.

Caution: Please do not damage the part of the gasket when you install the bracket and the attachment.
Water and dust are infiltrated when the installation is mistaken, and the inverter might break down.

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.

Drive Model CIMR-ZU□	Product Code	Product Text	Parts List	GW	Recommended Mounting Hardware (Not Provided)
2A0011 2A0017 4A0005 4A0008 4A0011	100-065-941	72606 -EZZ021642A	Bracket(Qty.2) Attachment(Qty.1) Screw M5×14+S+W(Qty.8)	2.43lb (1.1kg)	Screw M5×14 (Qty.10)
2A0024 2A0031 4A0014 4A0021 4A0027	100-065-942	72606 -EZZ021642B	Bracket(Qty.2) Attachment(Qty.1) Screw M5×14+S+W(Qty.8)	3.09lb (1.4kg)	Screw M5×14 (Qty.12)
2A0046 2A0059 4A0034 4A0040	100-065-943	72606 -EZZ021642C	Bracket 1(Qty.2) Bracket 2(Qty.2) Attachment(Qty.1) Screw M4×10+S+W(Qty.2) Screw M5×14+S+W(Qty.10)	4.19lb (1.9kg)	Screw M6×14 (Qty.12)
2A0075 2A0088 2A0114 4A0052 4A0065 4A0077 4A0096	100-065-944	72606 -EZZ021642D	Bracket 1(Qty.1) Bracket 2(Qty.1) Bracket 3(Qty.1) Bracket 4(Qty.1) Attachment(Qty.1) Screw M4×10+S+W(Qty.2) Screw M5×14+S+W(Qty.8) Screw M6×14+S+W(Qty.2)	5.29lb (2.4kg)	Screw M6×14 (Qty.14)
4A0124	100-065-945	72606 -EZZ021642E	Bracket 1(Qty.1) Bracket 2(Qty.1) Attachment(Qty.1) Screw M4×10+S+W(Qty.11) Screw M5×14+S+W(Qty.10)	9.26lb (4.2kg)	Screw M5×20 (Qty.12) Screw M8×20 (Qty.4)
2A0143 2A0169 2A0211 2A0273 4A0156 4A0180 4A0240	100-065-946	72606 -EZZ021642F	Bracket 1(Qty.1) Bracket 2(Qty.1) Attachment(Qty.1) Screw M4×10+S+W(Qty.12) Screw M5×14+S+W(Qty.12)	10.58lb (4.8kg)	Screw M5×20 (Qty.12) Screw M10×20 (Qty.4)
4A0302	100-065-947	72606 -EZZ021642G	Bracket 1(Qty.1) Bracket 2(Qty.1) Attachment(Qty.1) Screw M4×10+S+W(Qty.16) Screw M5×14+S+W(Qty.16)	14.99lb (6.8kg)	Screw M5×20 (Qty.16) Screw M12×20 (Qty.4)

This document explains how to install the attachment needed for an external, protruding heatsink for an Type12-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.)

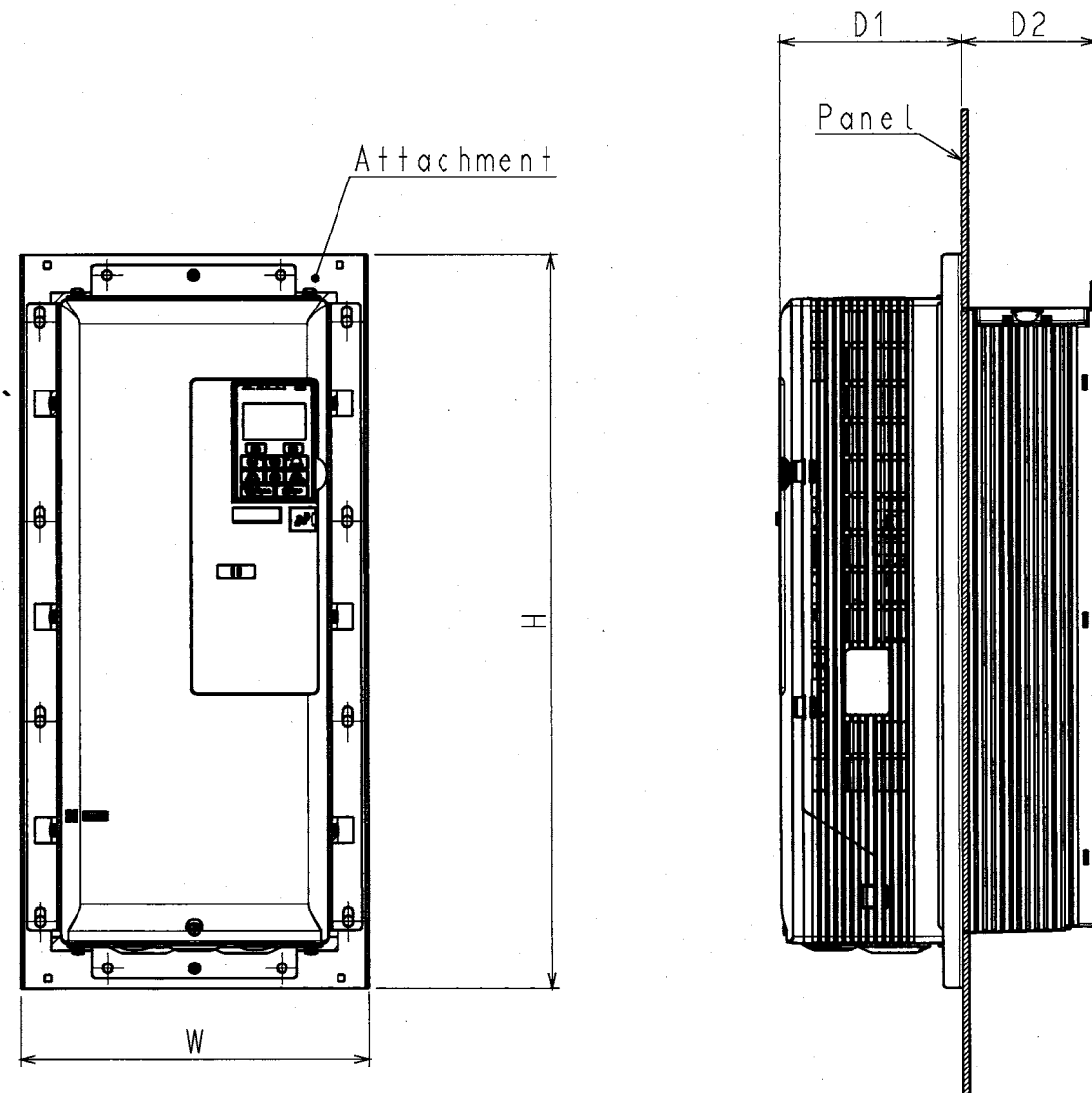


Table2 Dimension of Inverter that Installs attachment.

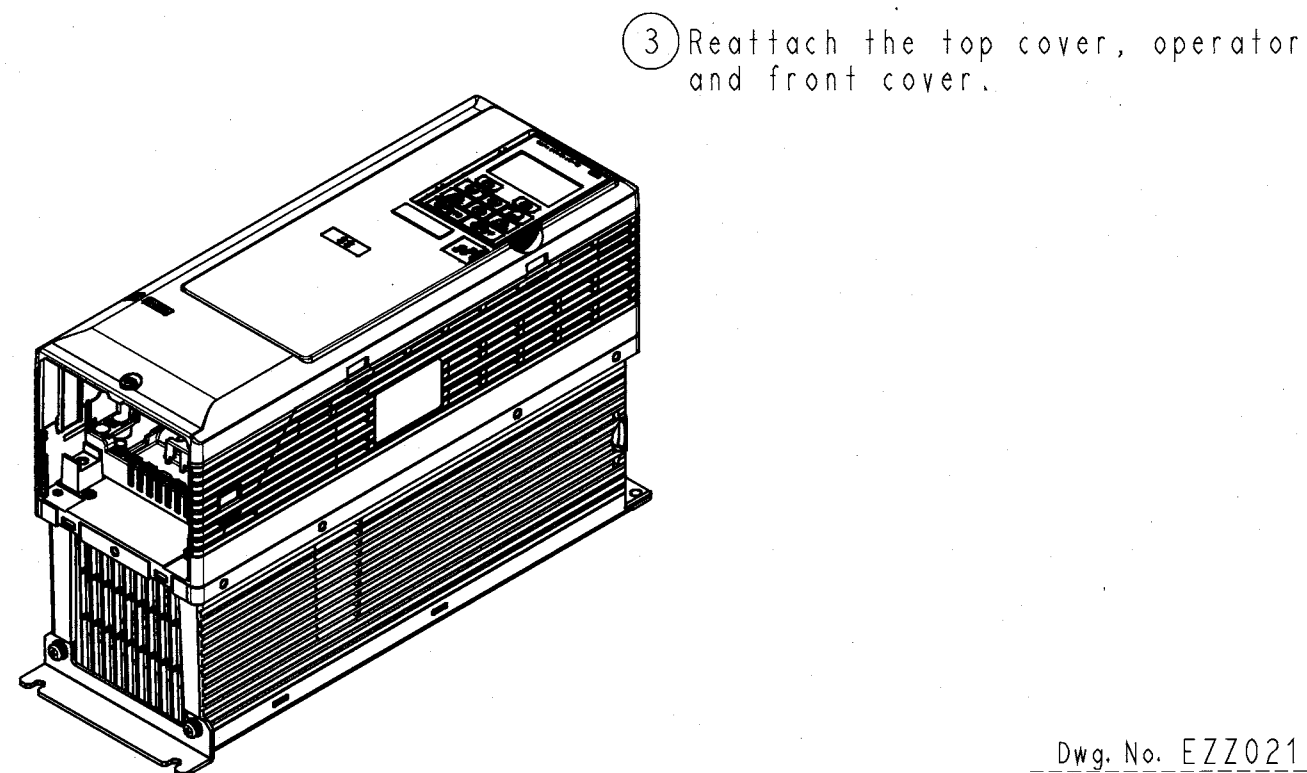
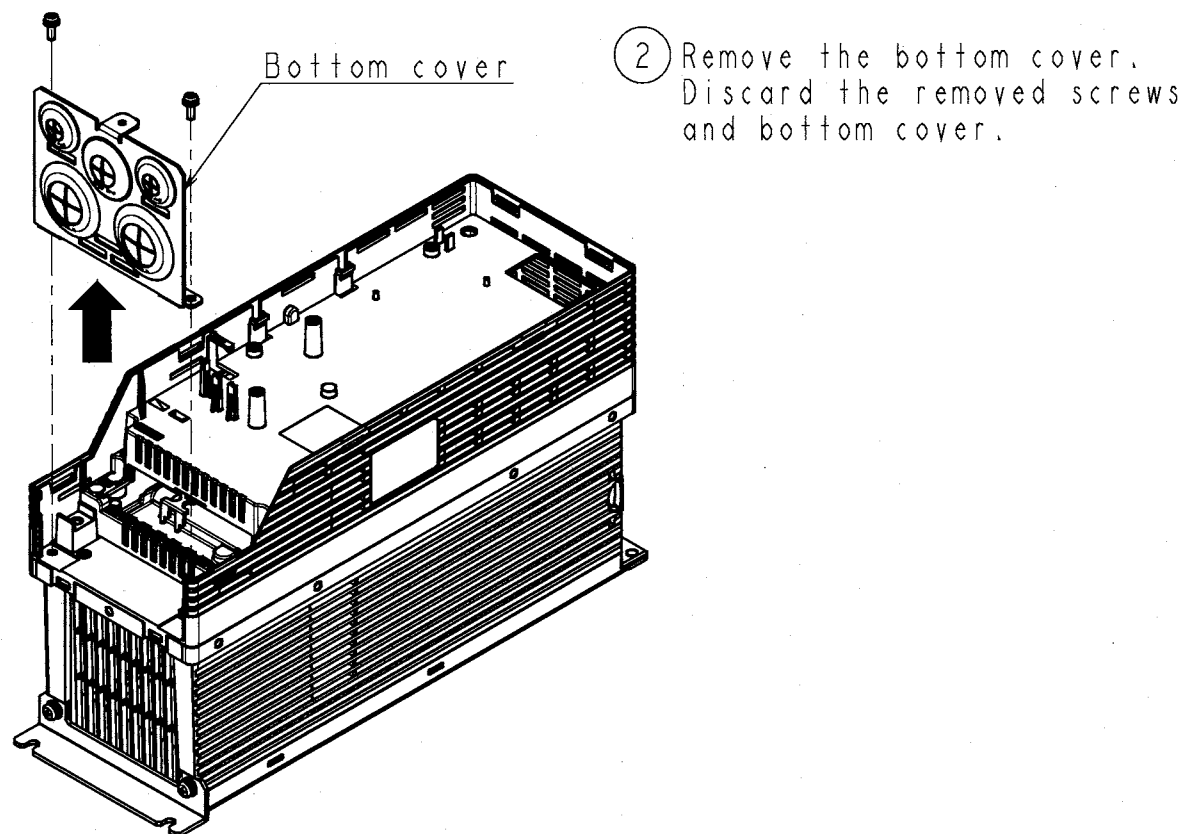
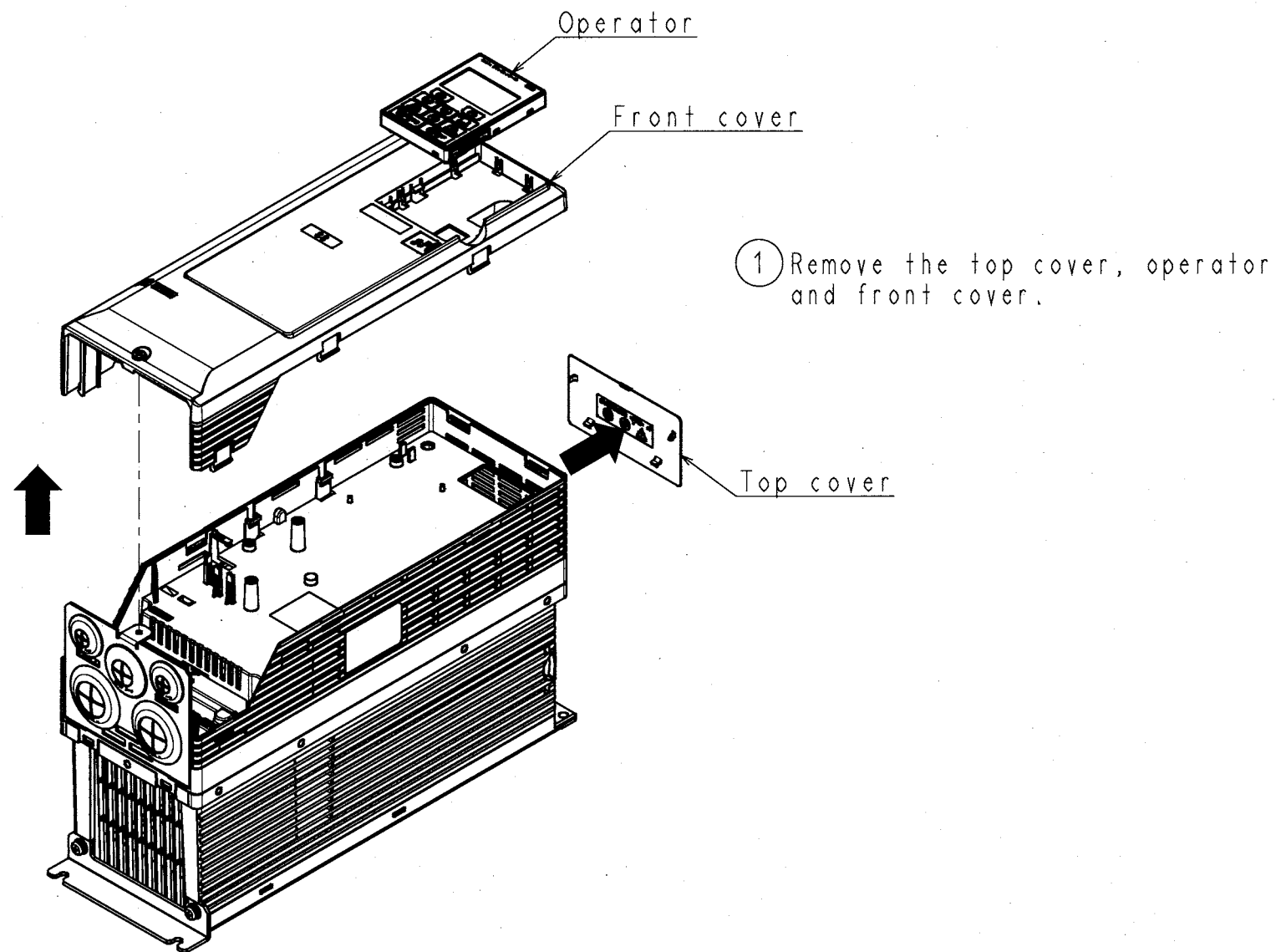
Drive Model CIMR-ZU□	Dimension(in,(mm))			
	W	H	D1	D2
2A0011 2A0017 4A0005 4A0008 4A0011	7.17 (182)	15.08 (383)	4.47 (113.5)	4.11 (104.5)
2A0024 2A0031 4A0014 4A0021 4A0027	7.17 (182)	18.62 (473)	5.06 (128.5)	4.11 (104.5)
2A0046 2A0059 4A0034 4A0040	10.24 (260)	21.65 (550)	5.28 (134)	4.07 (103.5)
2A0075 2A0088 2A0114 4A0052 4A0065 4A0077 4A0096	12.60 (320)	23.03 (585)	6.21 (157.8)	4.16 (105.7)
4A0124	14.96 (380)	29.39 (746.4)	5.20 (132)	6.18 (157)
2A0143 2A0169 2A0211 2A0273 4A0156 4A0180 4A0240	17.48 (444)	32.44 (824)	8.67 (220.2)	7.08 (179.8)
4A0302	21.89 (556)	42.60 (1082)	9.88 (251)	9.02 (229)

INSTALLATION PROCEDURE

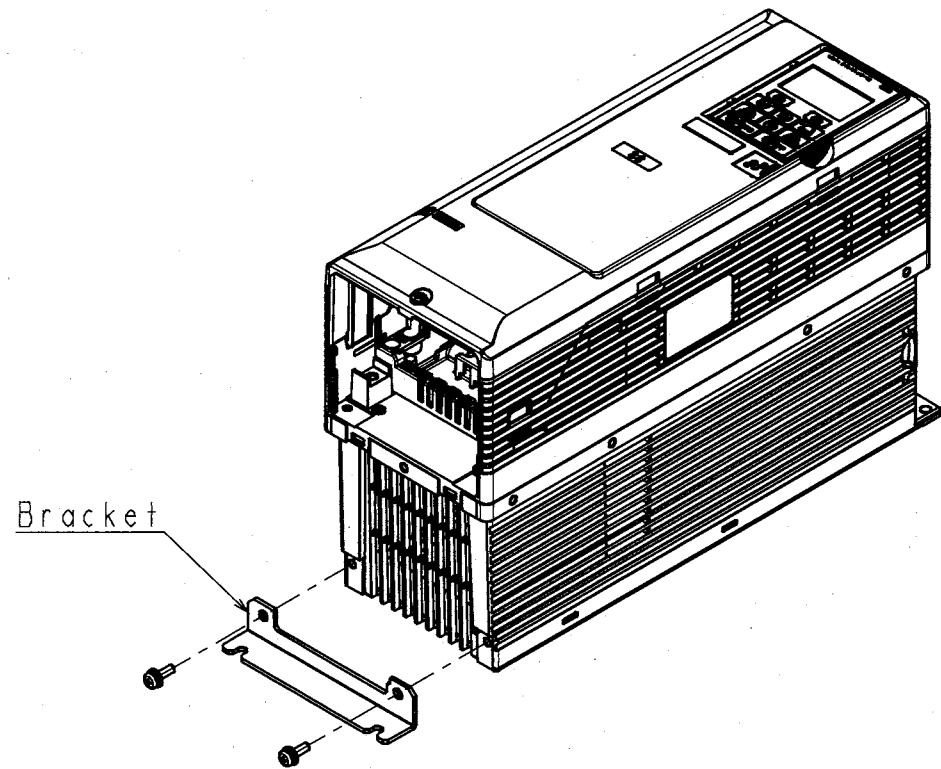
This drawing applies to the following models:

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))

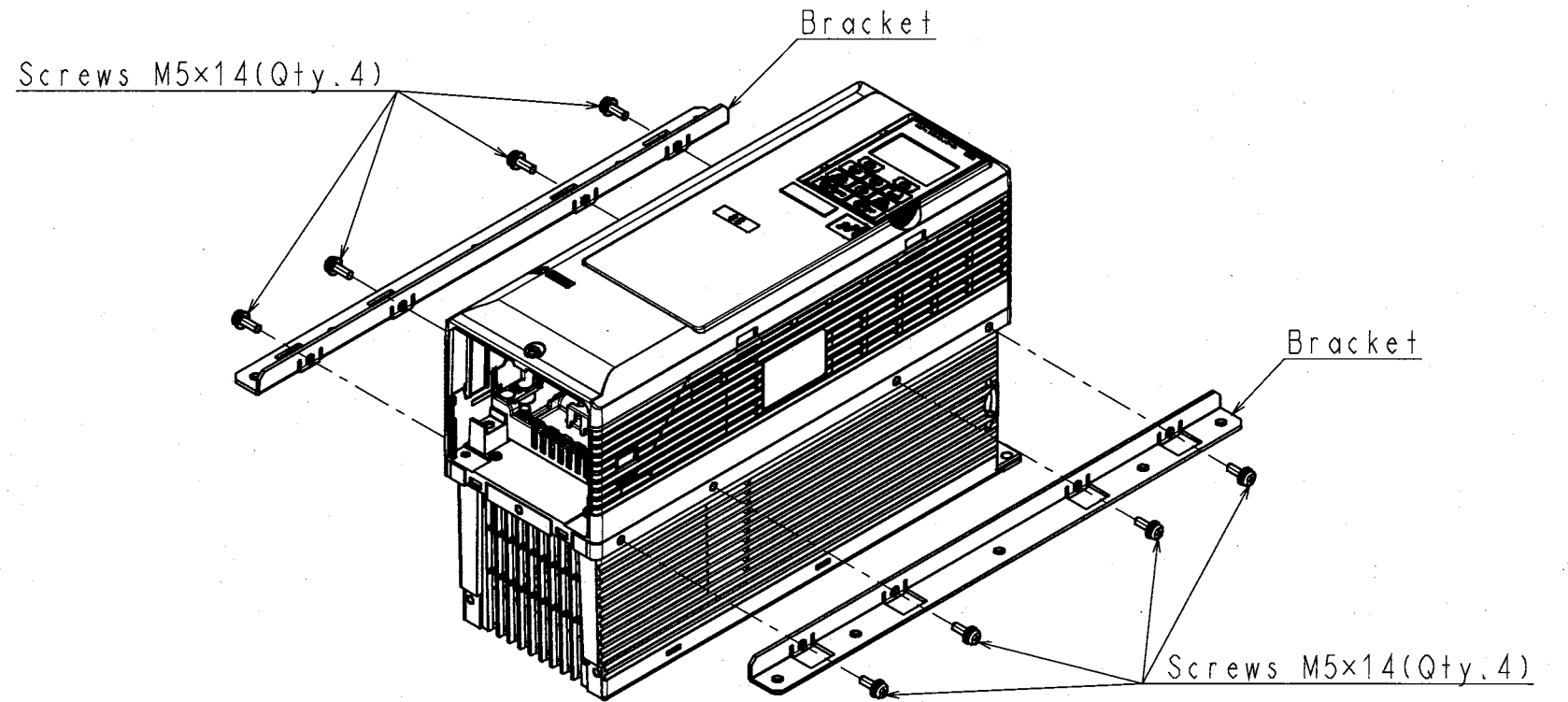
This drawing shows how to set up CIMR-ZU2A0011-0017, 4A0005-0011.



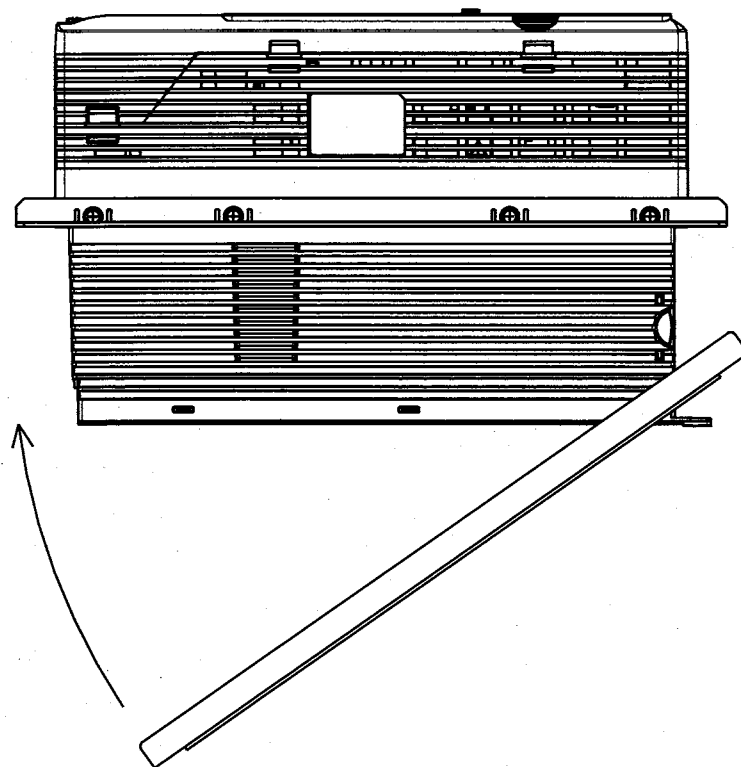
④ Remove the bracket.
Discard the removed screws and removed bracket.



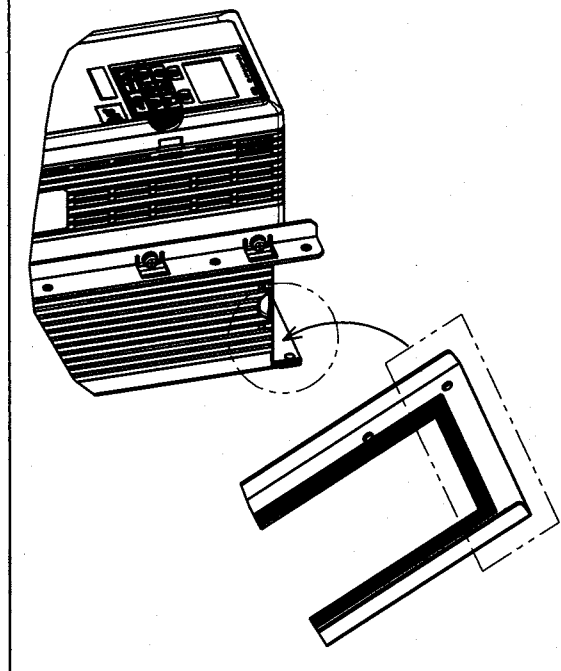
⑤ Attach the brackets on the both side of the inverter by attached screws.



⑥ Insert the attachment in the inverter.

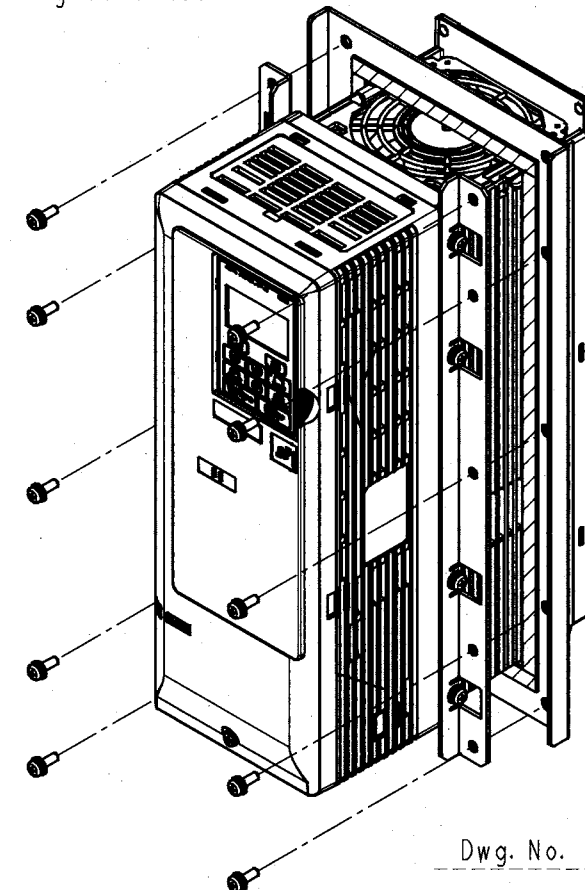


First insert a square part
shown in the following
figure into the flange of
the inverter.



INSTALLATION COMPLETE

Attach the inverter to the end use panel.
Refer to Page 14 for mounting details.



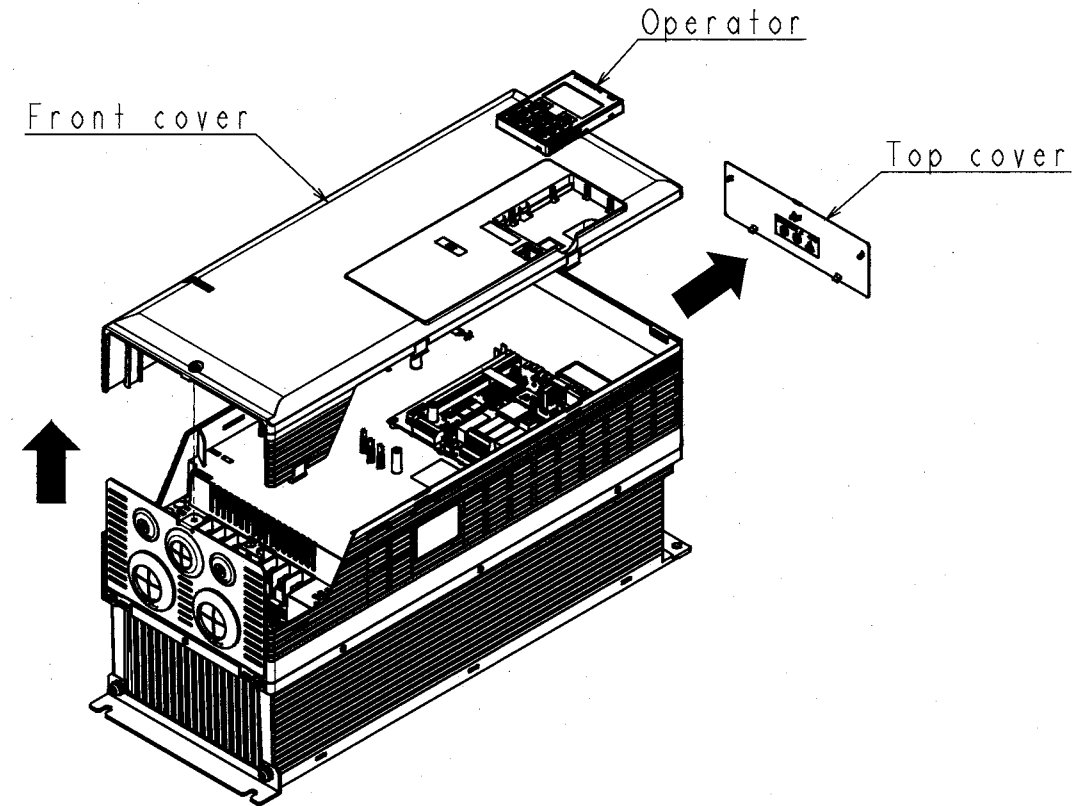
INSTALLATION PROCEDURE

This drawing applies to the following models:

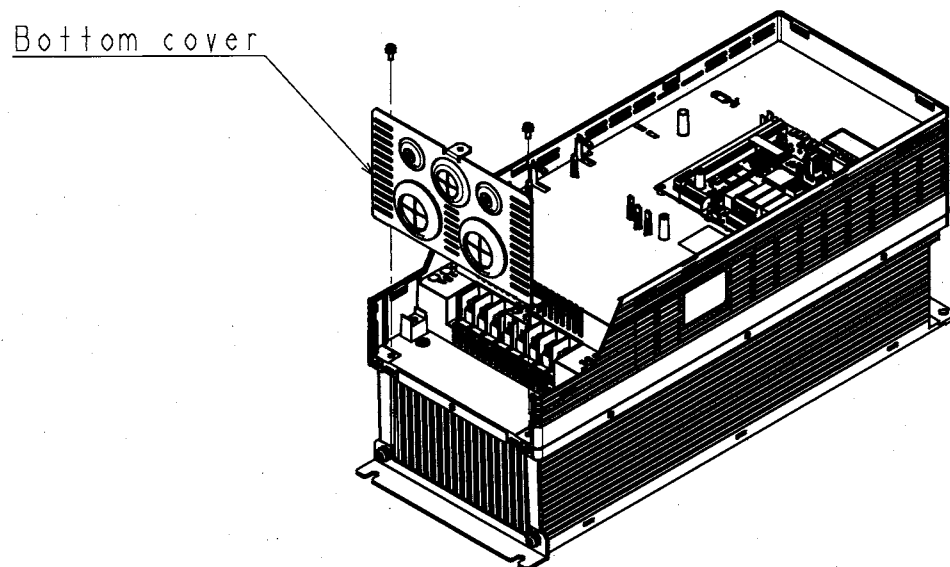
Drive Model	Screw	Tightening Torque
CIMR-ZU2A0046~0059 4A0034~0040	M4×10(Qty.2)	8.9~11.5(lb·in) (1.0~1.3(N·m))
	M5×14(Qty.10)	17.7~22.1(lb·in) (2.0~2.5(N·m))
CIMR-ZU2A0075~0114 4A0052~0096	M4×10(Qty.2)	8.9~11.5(lb·in) (1.0~1.3(N·m))
	M5×14(Qty.8)	17.7~22.1(lb·in) (2.0~2.5(N·m))
	M6×14(Qty.2)	35.4~43.3(lb·in) (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.

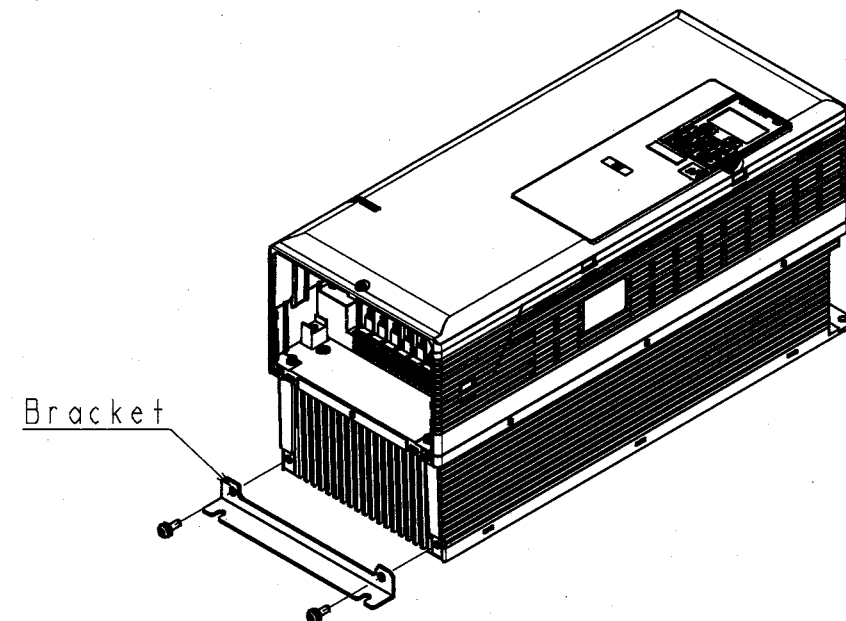


- ② Remove the bottom cover.
Discard the removed screws.

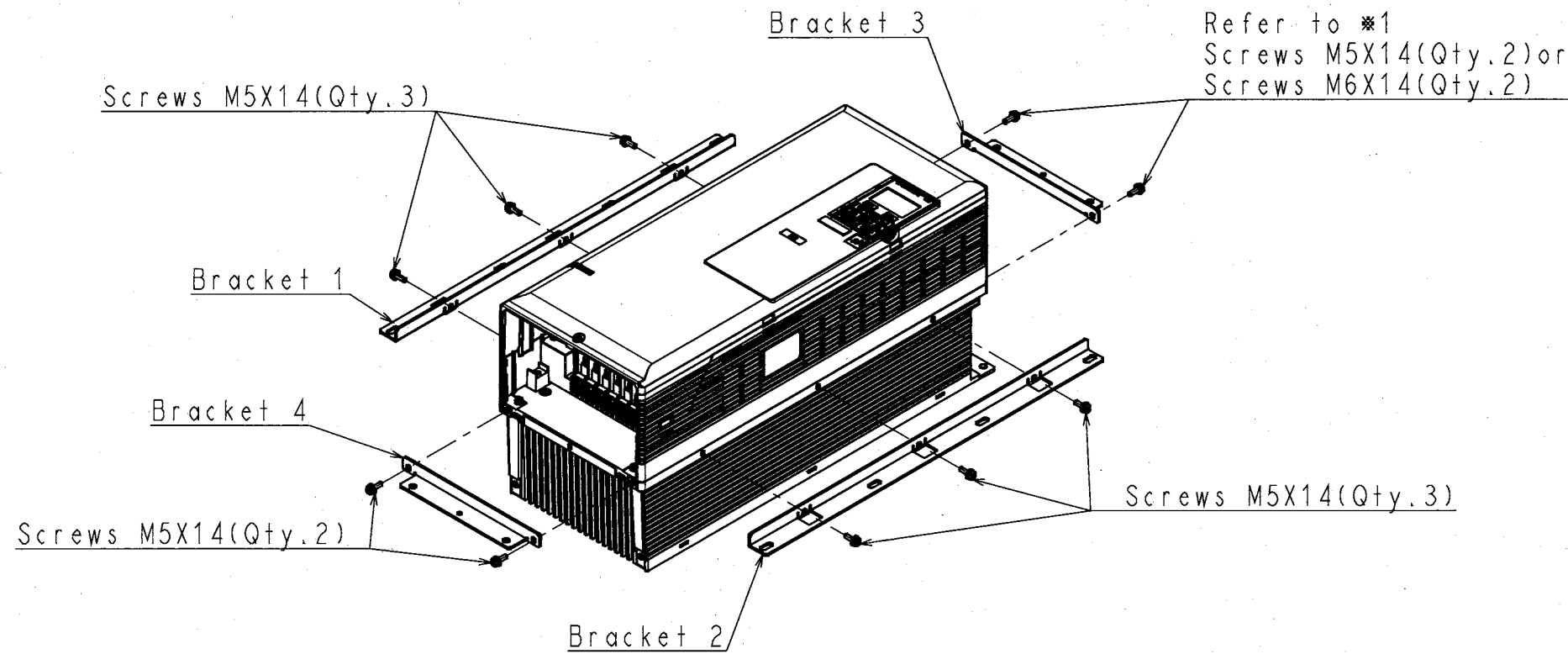


- ③ Reattach the top cover, operator and front cover.
Remove the bracket.

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

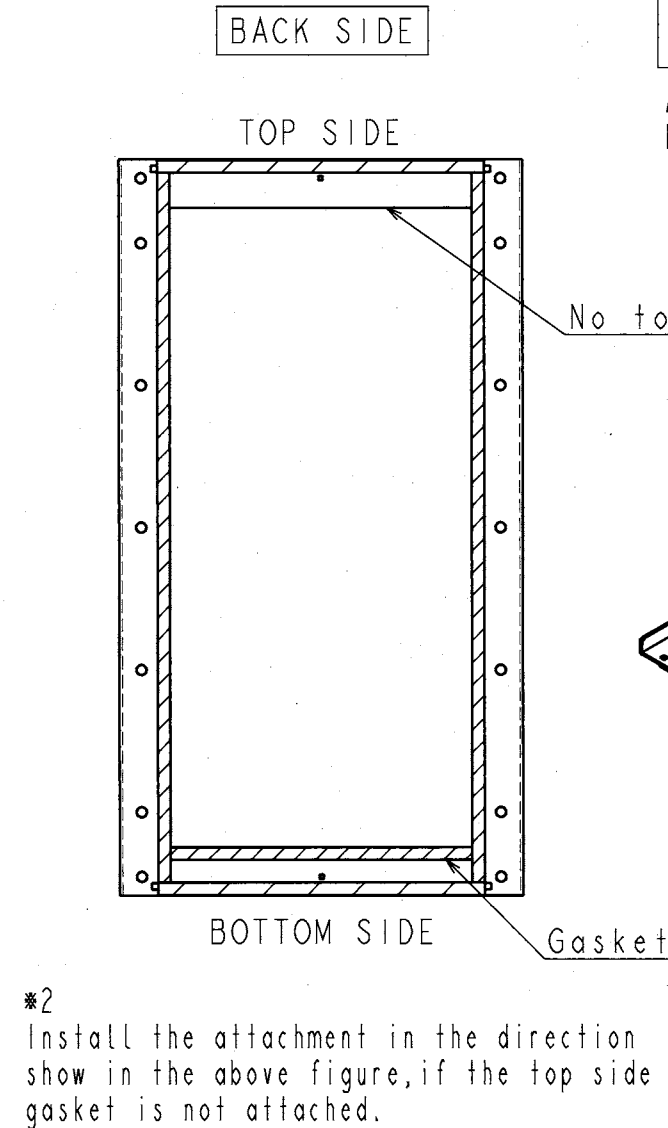
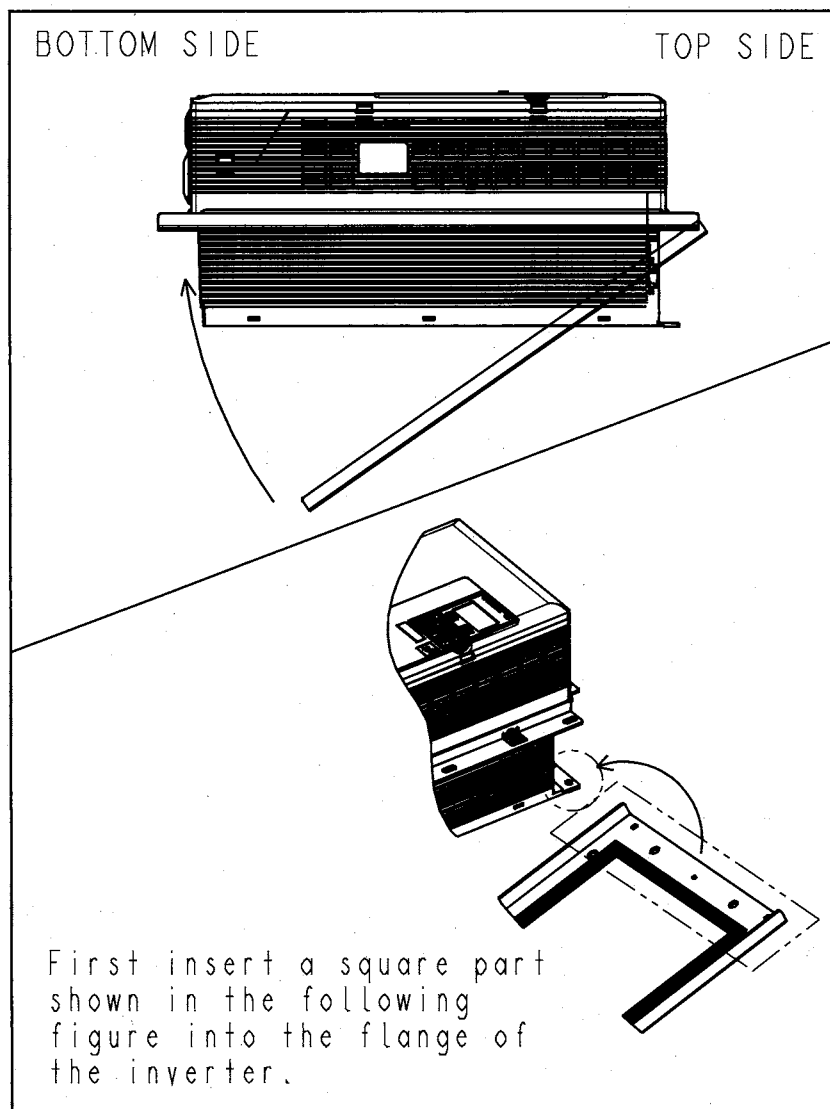
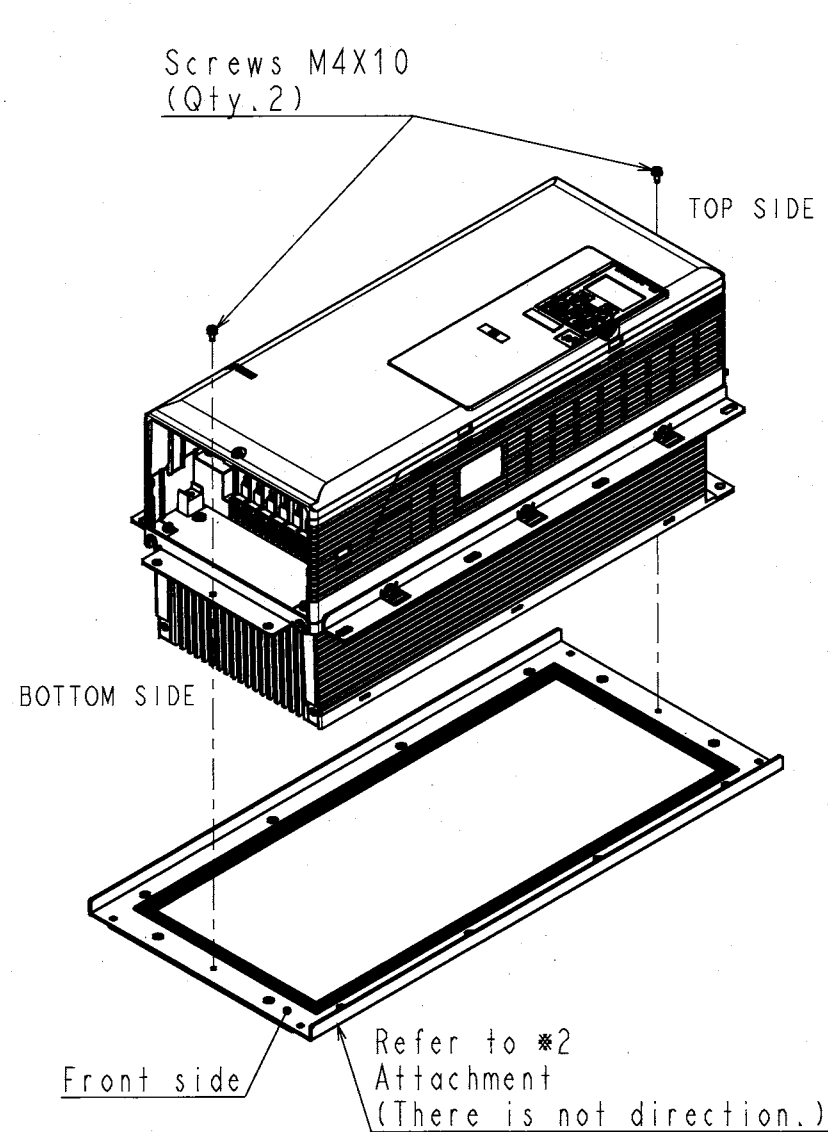


④ Attach the bracket 1 to 4 on the both sides of the inverter by attached screws.



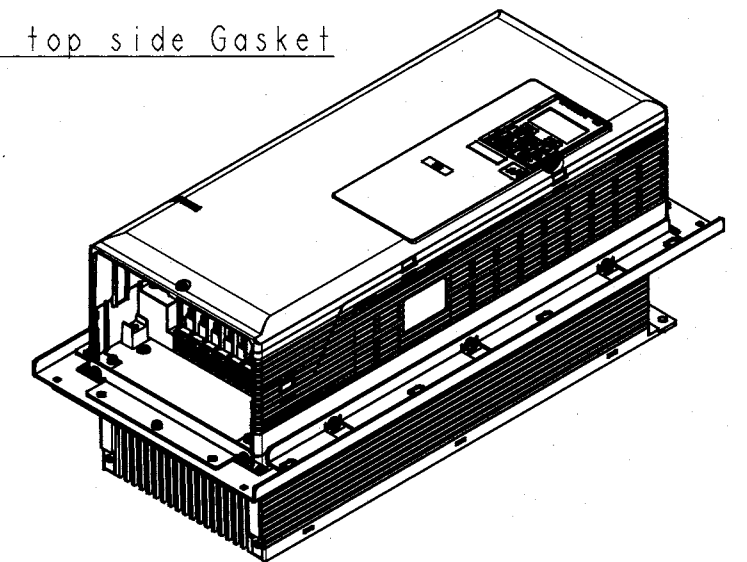
*1
Screws M5X14:CIMR-ZU2A0046~0059
4A0034~0040
Screws M6X14:CIMR-ZU2A0075~0114
4A0052~0096

⑤ Fix the attachment by attached screws(M4x10).



INSTALLATION COMPLETE

Attach the inverter to the end use panel.
Refer to Page 14 for mounting details.

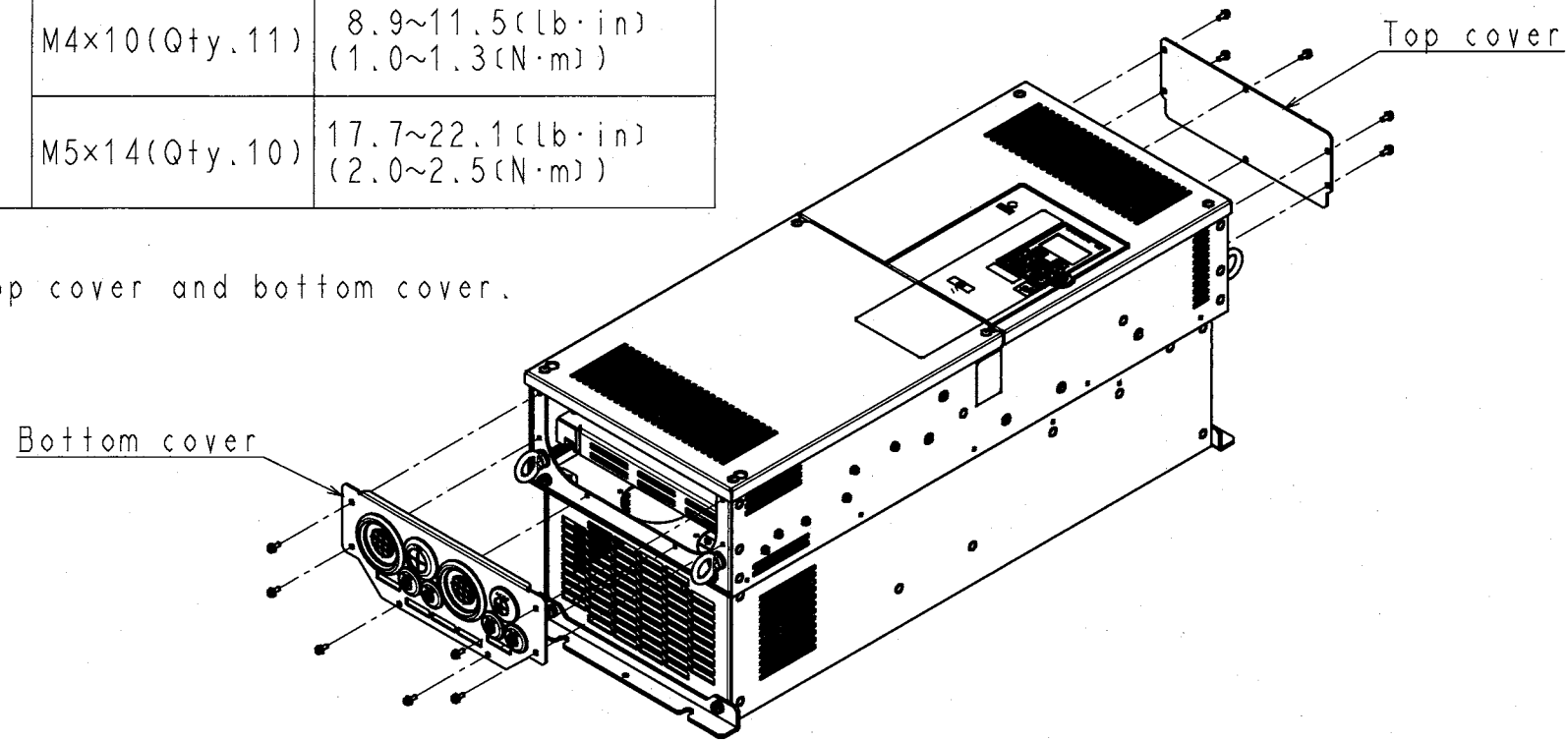


INSTALLATION PROCEDURE

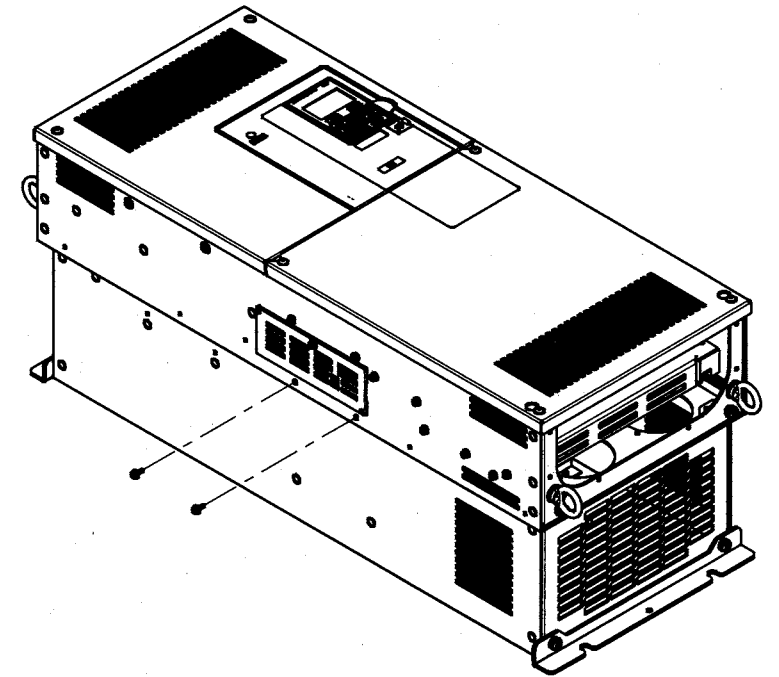
This drawing applies to the following models:

Drive Model	Screw	Tightening Torque
CIMR-ZU4A0124	M4×10(Qty.11)	8.9~11.5(Lb·in) (1.0~1.3(N·m))
	M5×14(Qty.10)	17.7~22.1(Lb·in) (2.0~2.5(N·m))

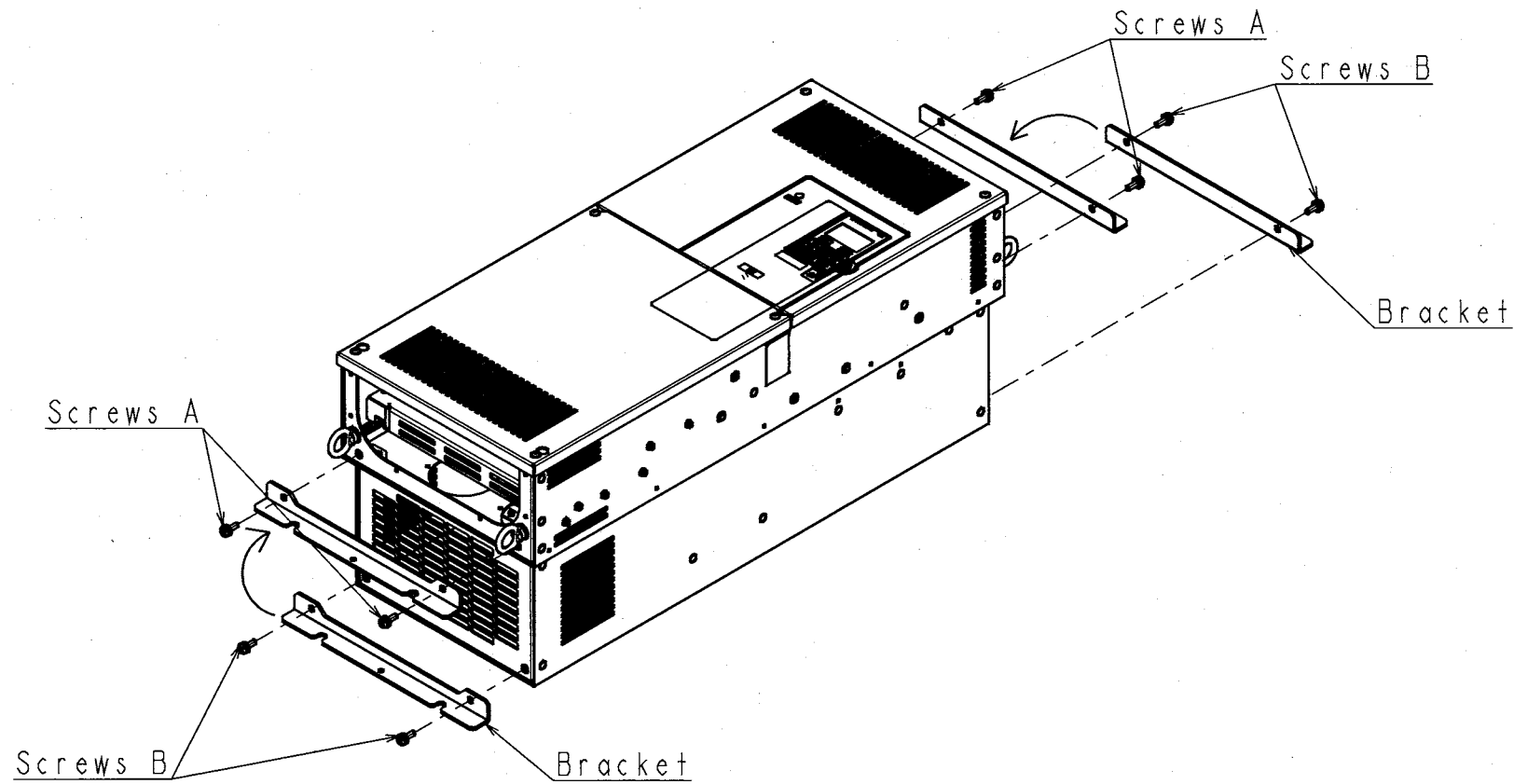
① Remove the top cover and bottom cover.



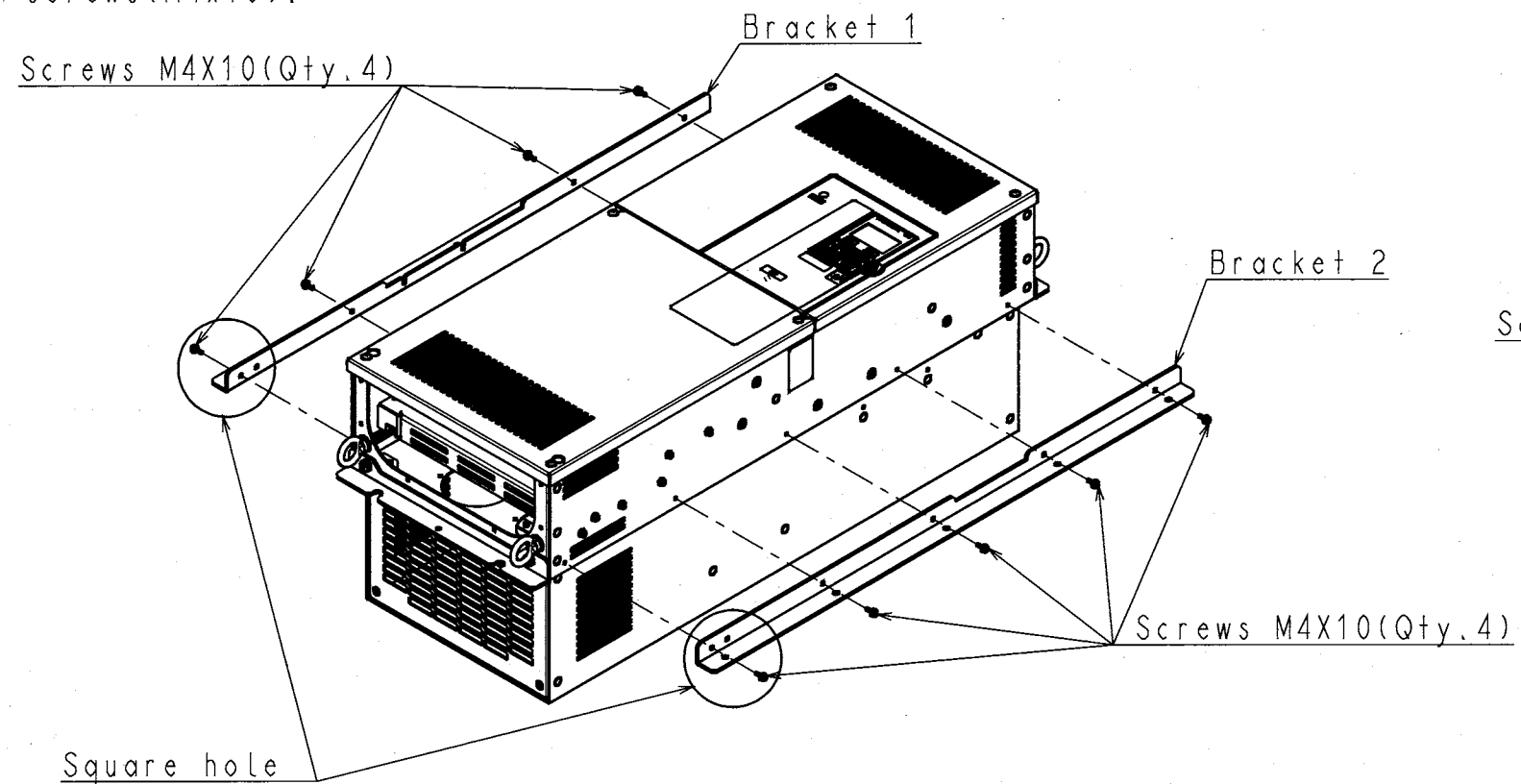
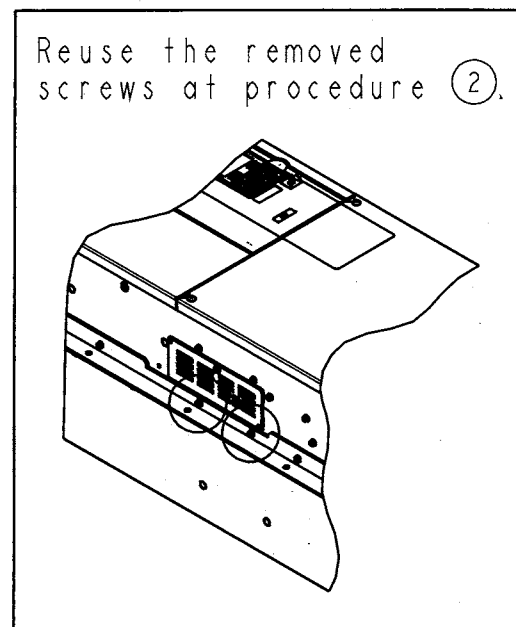
② Remove the side screws.



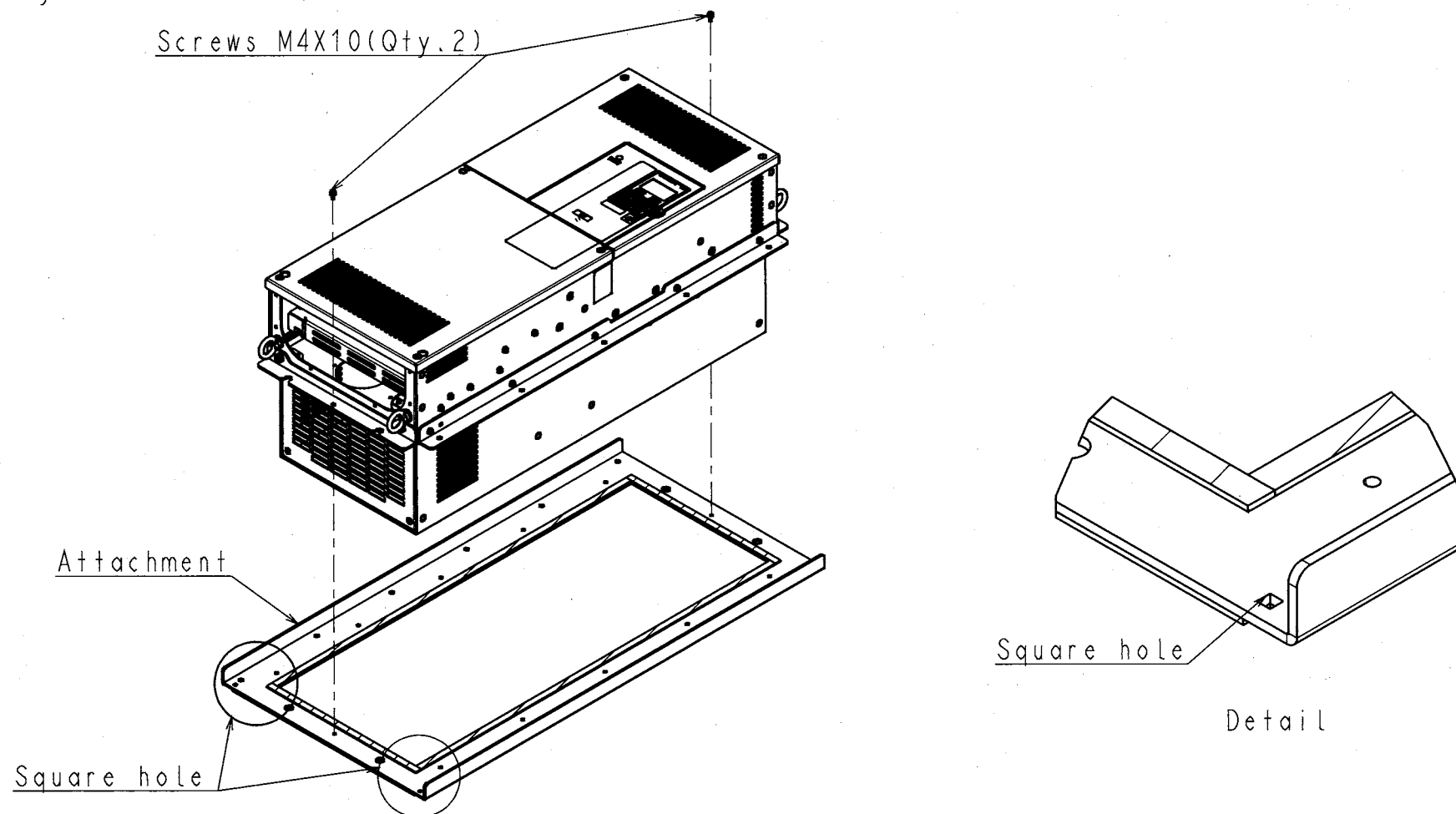
③ Fix the brackets by screws A after remove the screws A, B and brackets. Discard the removed screws B.



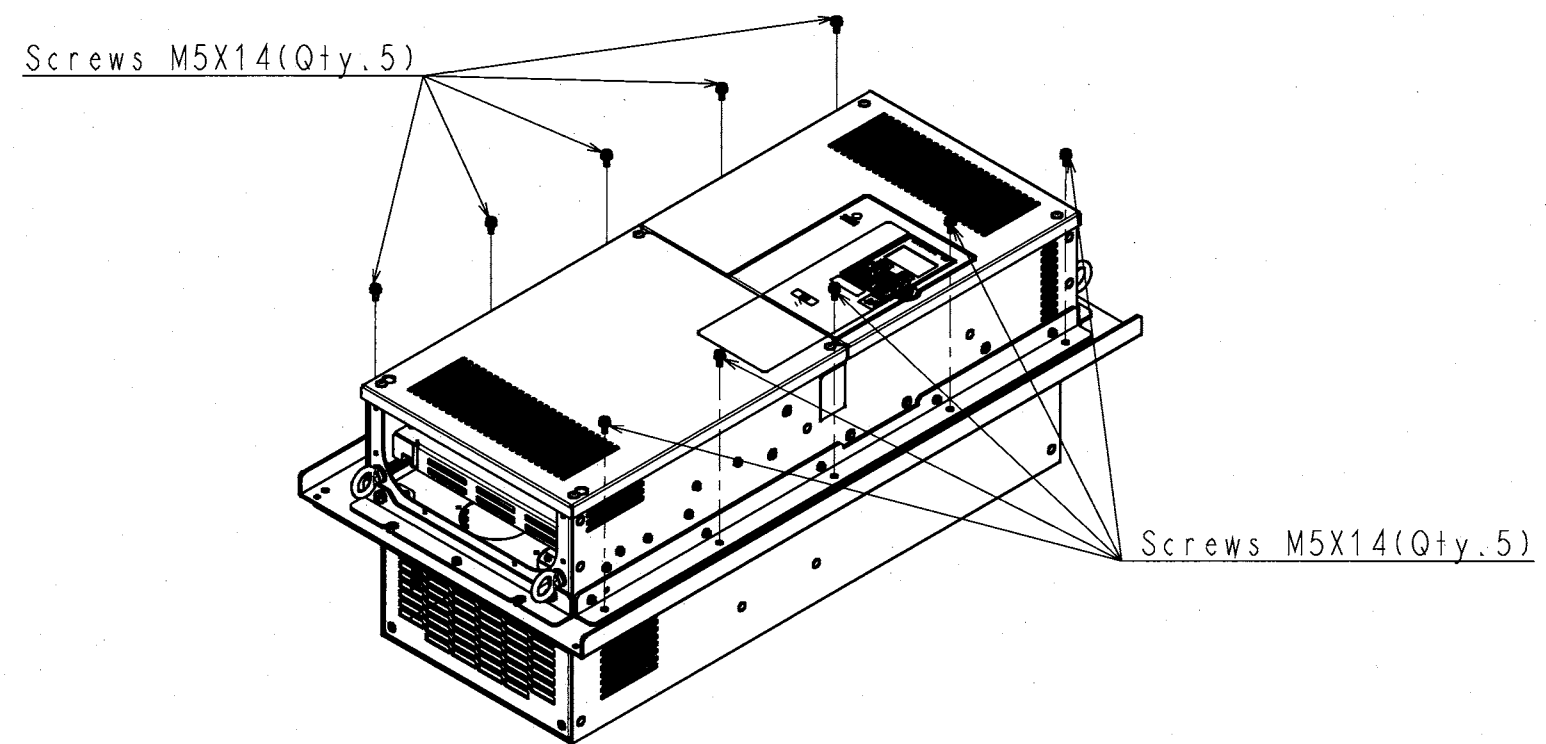
④ Fix the bracket 1 and 2 by attached screws(M4x10).



⑤ Fix the attachment by attached screw(M4x10).

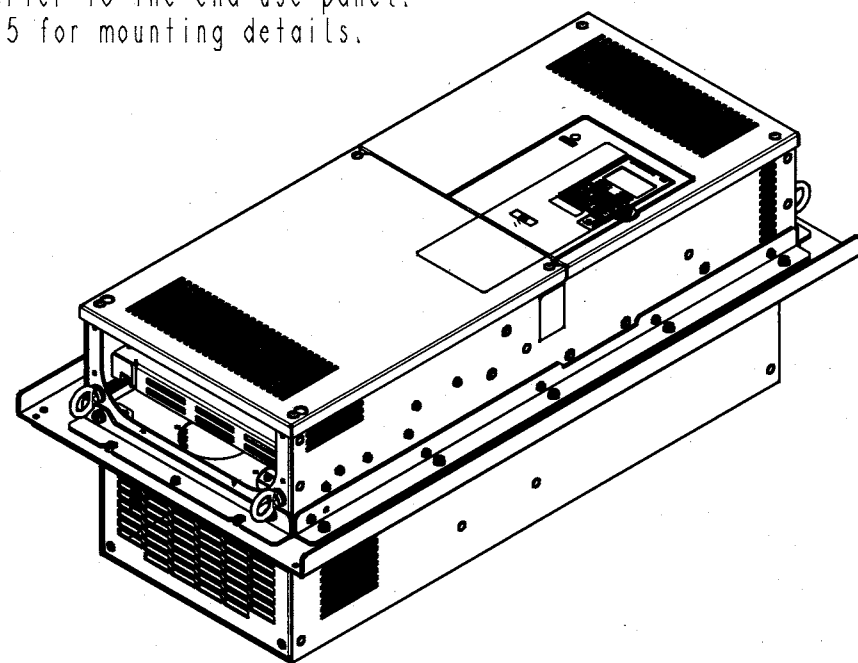


⑥ Fix the attachment by attached screws(M5x14).



INSTALLATION COMPLETE

Attach the inverter to the end use panel.
Refer to Page 15 for mounting details.



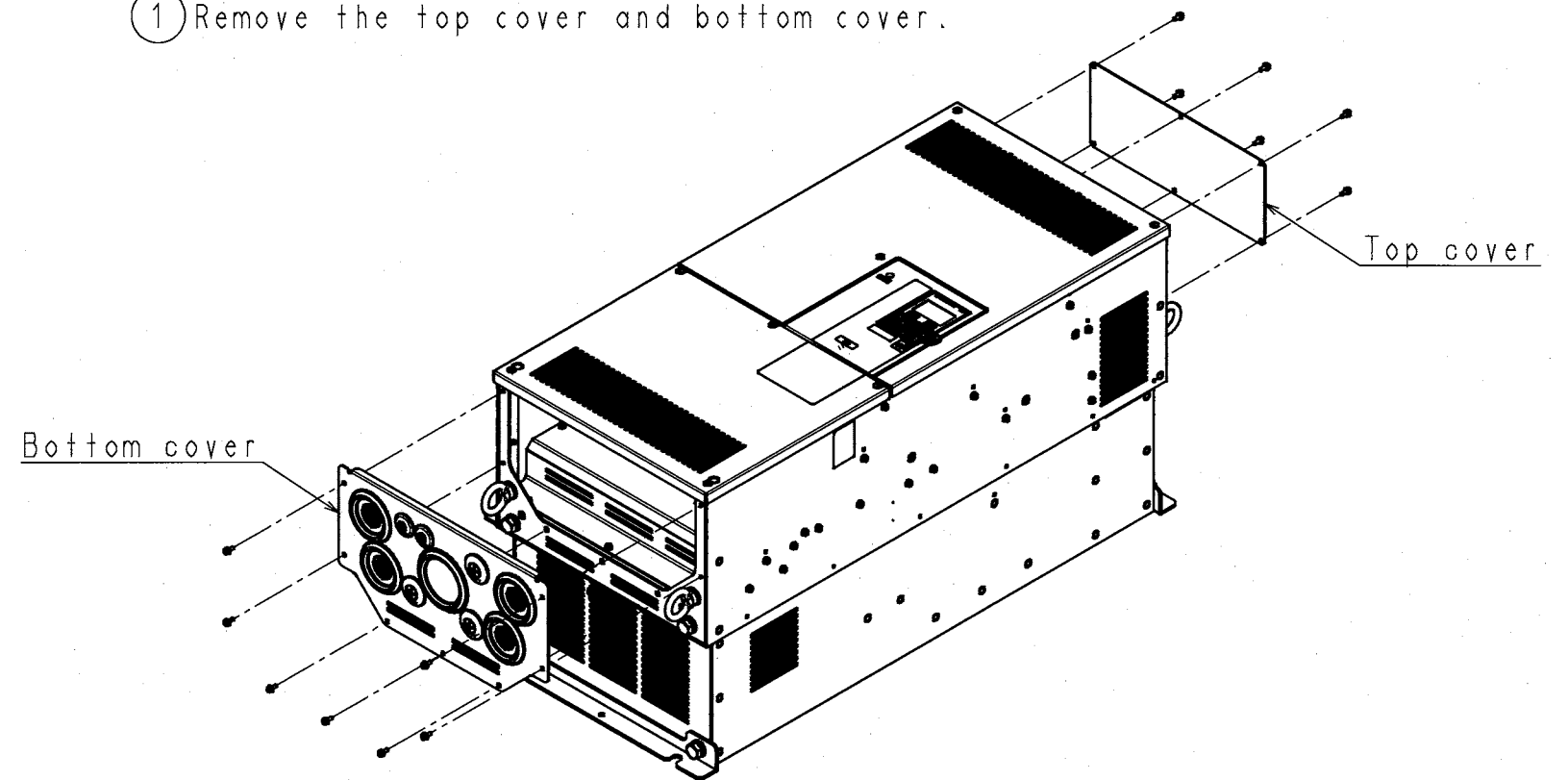
INSTALLATION PROCEDURE

This drawing applies to the following models:

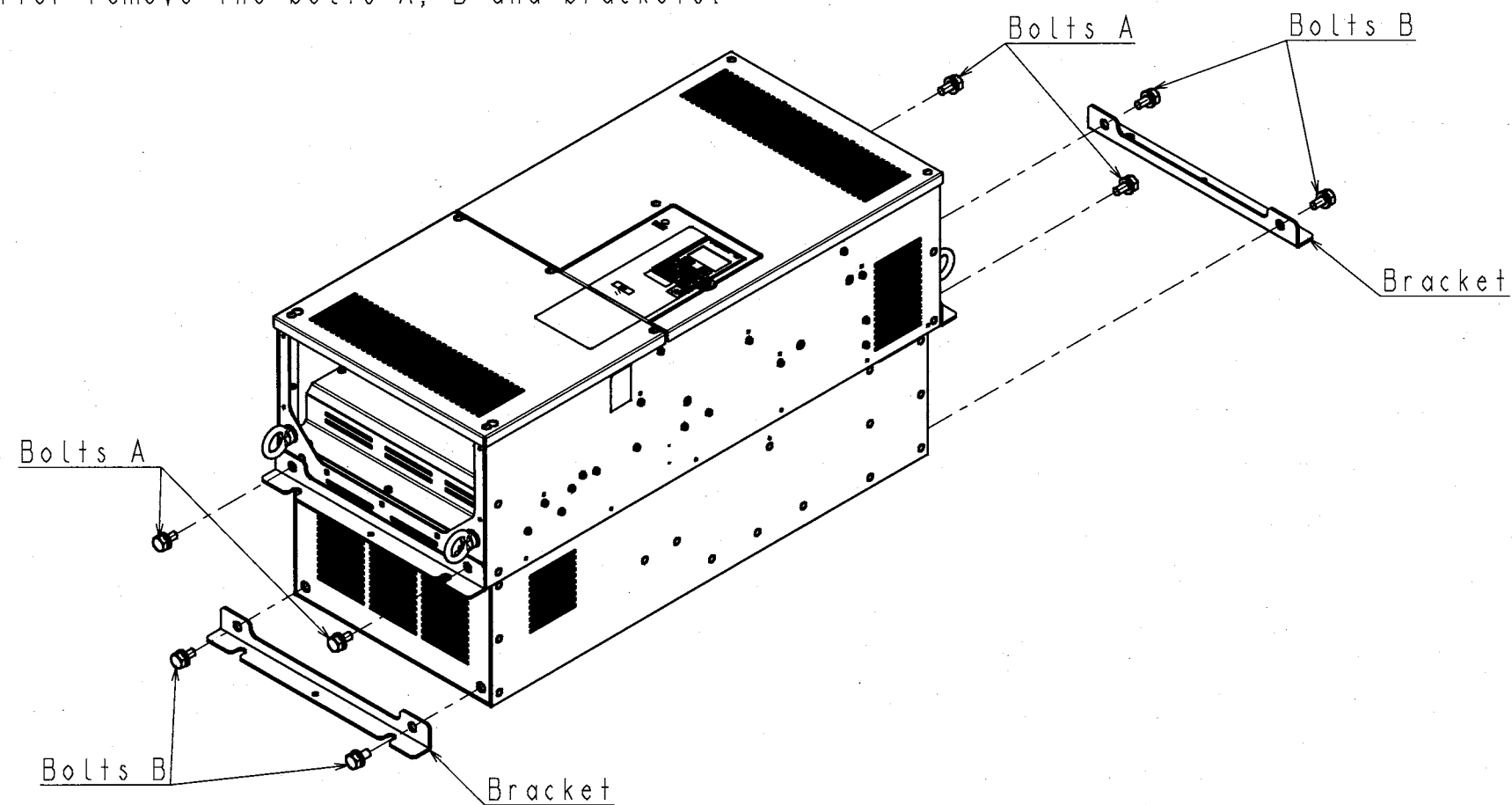
Drive Model	Screw	Tightening Torque
CIMR-ZU2A0143~0273 4A0156~0240	M4×10(Qty.12)	8.9~11.5(lb·in) (1.0~1.3(N·m))
	M5×14(Qty.12)	17.7~22.1(lb·in) (2.0~2.5(N·m))
CIMR-ZU4A0302	M4×10(Qty.16)	8.9~11.5(lb·in) (1.0~1.3(N·m))
	M5×14(Qty.16)	17.7~22.1(lb·in) (2.0~2.5(N·m))

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

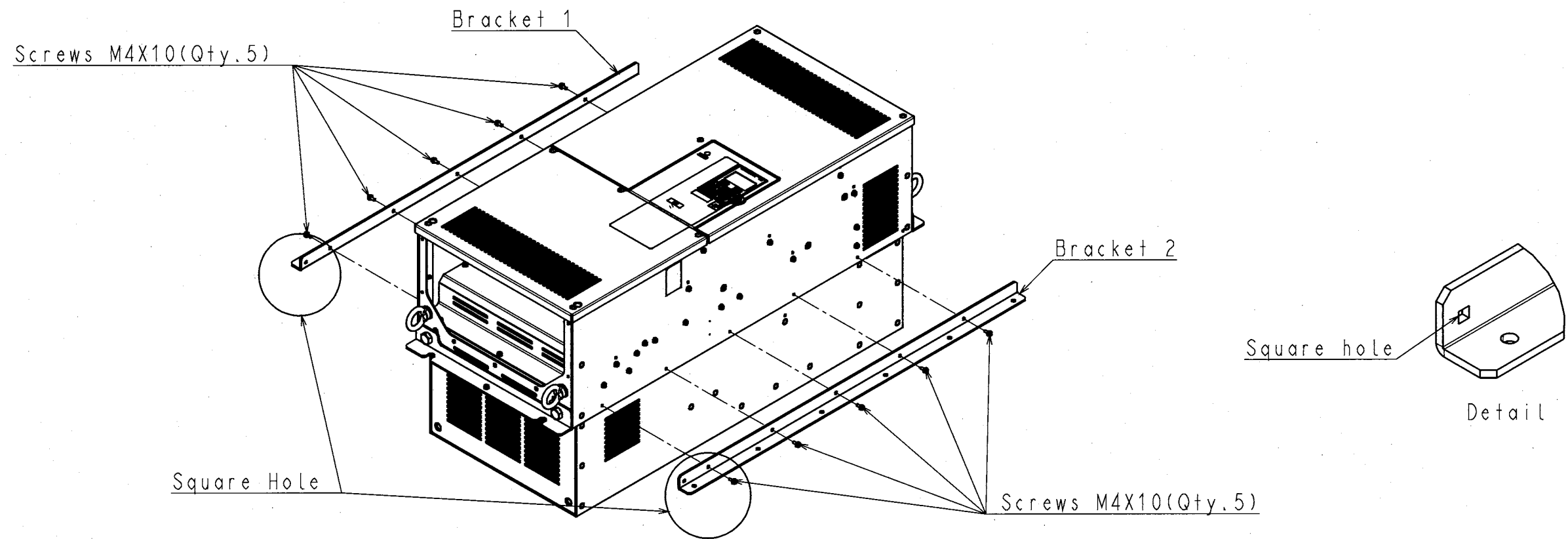
① Remove the top cover and bottom cover.



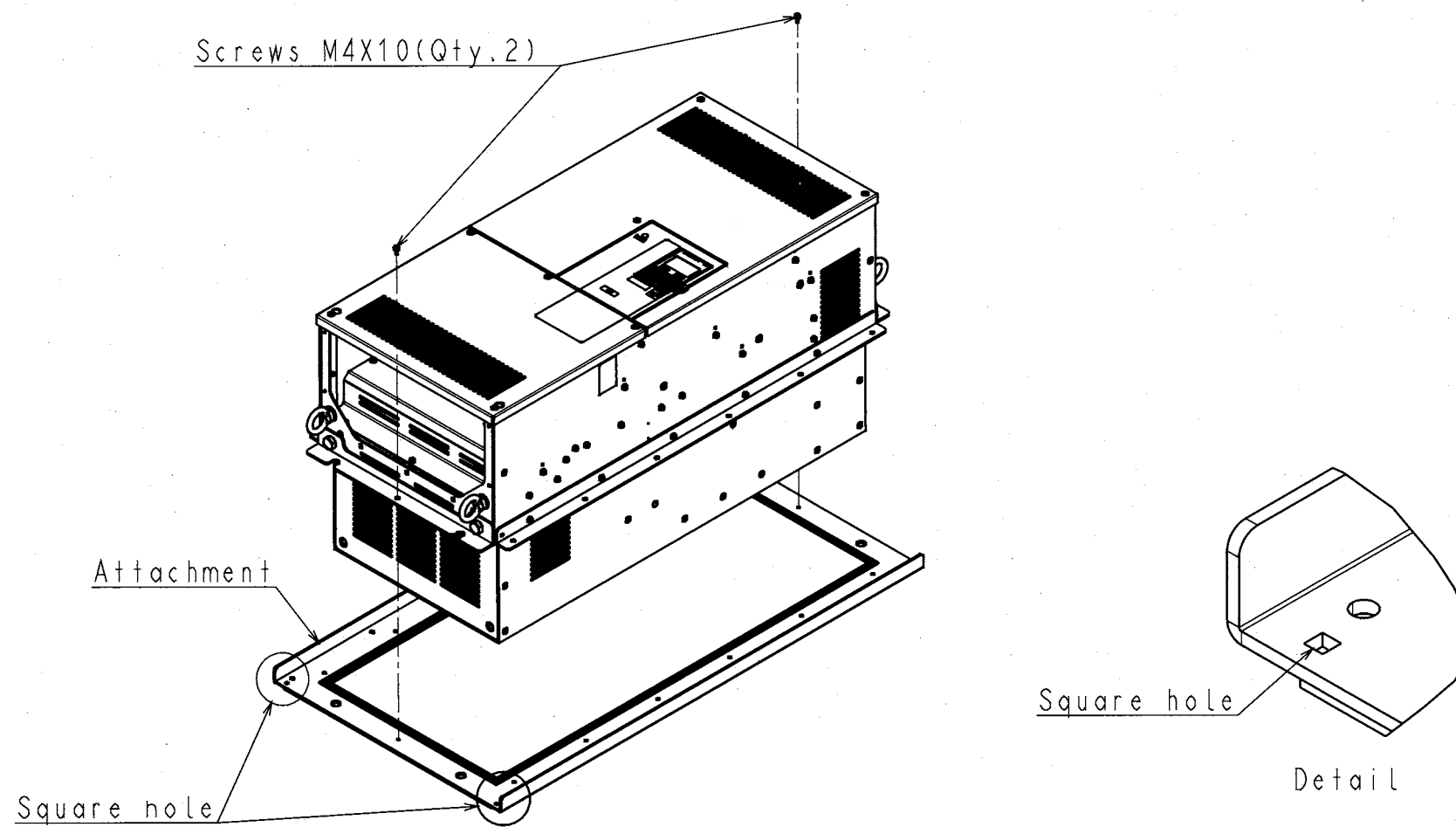
② Fix the brackets by bolts A after remove the bolts A, B and brackets. Discard the removed bolts B.



③ Fix the bracket 1 and 2 by attached screws(M4x10).

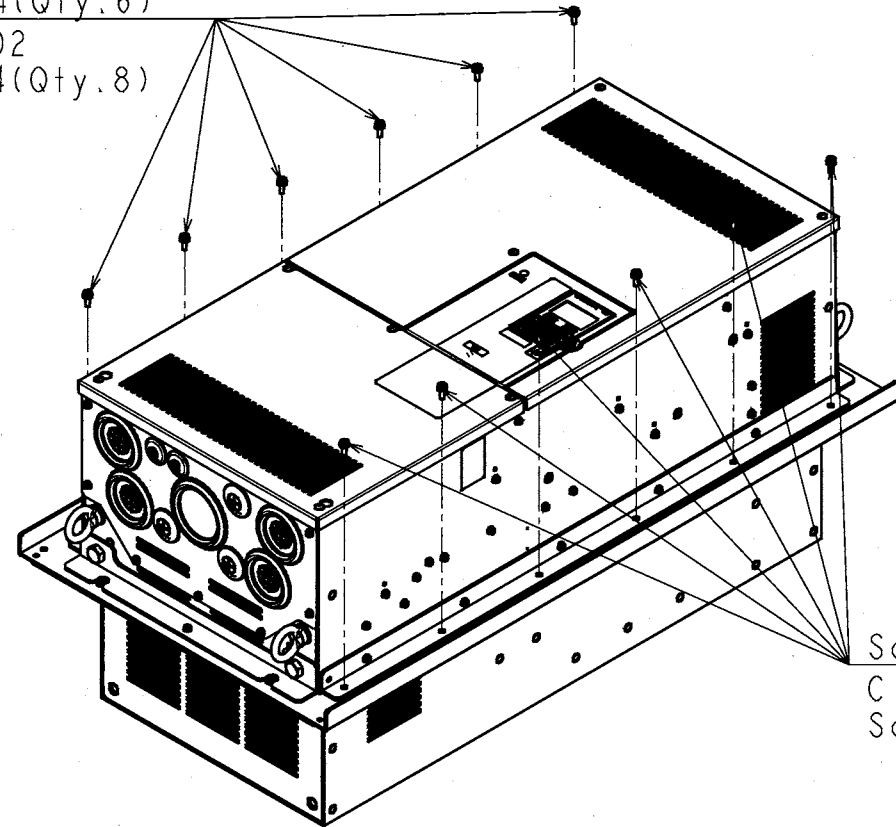


④ Fix the attachment by attached screws(M4x10).



⑤ Fix the attachment by attached screws(M5x14).

Screws M5X14(Qty.6)
CIMR-ZU4A0302
Screws M5x14(Qty.8)



Screws M5X14(Qty.6)
CIMR-ZU4A0302
Screws M5x14(Qty.8)

INSTALLATION COMPLETE

Attach the inverter to the end use panel.
Refer to Page 15 for mounting details.

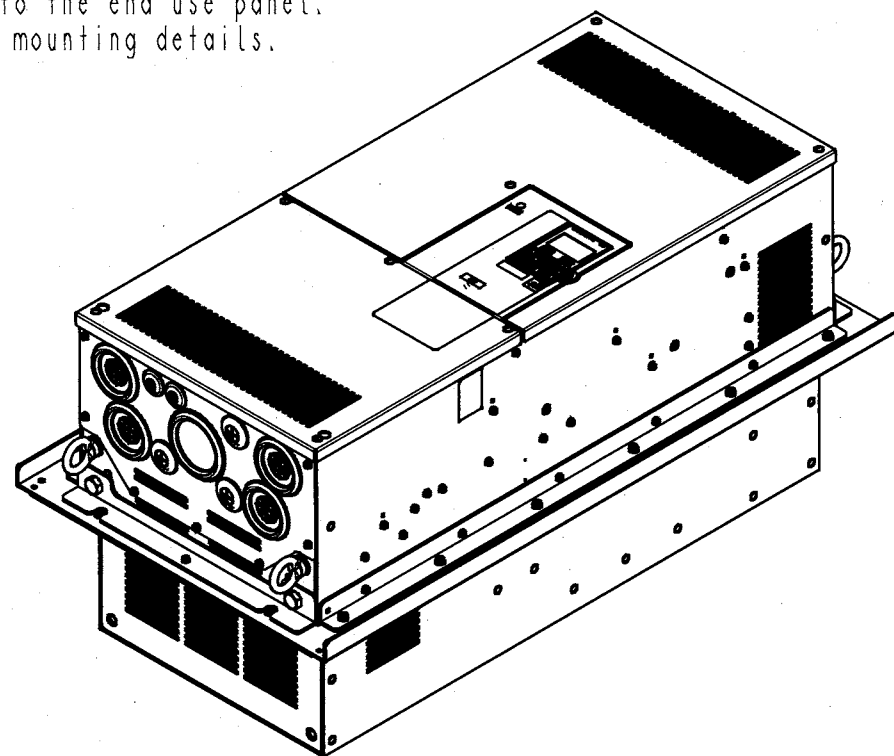


Table4 Panel Cut Dimension

Drive model CIMR-ZU□	Dimension(in,(mm))																	
	Figure	W	H	W1	W2	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	A	B
200V Class																		
2A0011 2A0017	1	7.17 (182)	15.08 (383)	5.91 (150)	—	2.46 (62.5)	4.53 (115)	4.53 (115)	2.46 (62.5)	—	—	—	—	—	—	—	4.65 (118)	12.76 (324)
2A0024 2A0031	2	7.17 (182)	18.62 (473)	5.91 (150)	—	2.26 (57.5)	4.33 (110)	4.33 (110)	4.33 (110)	2.26 (57.5)	—	—	—	—	—	—	4.65 (118)	16.30 (414)
2A0046 2A0059	3	10.24 (260)	21.65 (550)	9.06 (230)	5.12 (130)	20.47 (520)	5.91 (150)	5.91 (150)	5.91 (150)	—	—	—	—	—	—	—	7.64 (194)	18.62 (473)
2A0075 2A0088 2A0114	4	12.60 (320)	23.03 (585)	11.22 (285)	—	21.85 (555)	4.45 (113)	4.45 (113)	4.45 (113)	4.45 (113)	—	—	—	—	—	—	9.41 (239)	20.00 (508)
2A0143 2A0169 2A0211 2A0273	6	17.48 (444)	32.44 (824)	16.30 (414)	9.61 (244)	6.16 (156.5)	6.14 (156)	6.14 (156)	6.14 (156)	6.16 (156.5)	0.85 (21.5)	0.95 (24.2)	1.21 (30.8)	0.85 (21.5)	—	—	15.16 (385)	28.58 (726)
400V Class																		
4A0005 4A0008 4A0011	1	7.17 (182)	15.08 (383)	5.91 (150)	—	2.46 (62.5)	4.53 (115)	4.53 (115)	2.46 (62.5)	—	—	—	—	—	—	—	4.65 (118)	12.76 (324)
4A0014 4A0021 4A0027	2	7.17 (182)	18.62 (473)	5.91 (150)	—	2.26 (57.5)	4.33 (110)	4.33 (110)	4.33 (110)	2.26 (57.5)	—	—	—	—	—	—	4.65 (118)	16.30 (414)
4A0034 4A0040	3	10.24 (260)	21.65 (550)	9.06 (230)	5.12 (130)	20.47 (520)	5.91 (150)	5.91 (150)	5.91 (150)	—	—	—	—	—	—	—	7.64 (194)	18.62 (473)
4A0052 4A0065 4A0077 4A0096	4	12.60 (320)	23.03 (585)	11.22 (285)	—	21.85 (555)	4.45 (113)	4.45 (113)	4.45 (113)	4.45 (113)	—	—	—	—	—	—	9.41 (239)	20.00 (508)
4A0124	5	14.96 (380)	29.39 (746.4)	13.78 (350)	6.69 (170)	5.62 (142.7)	5.51 (140)	5.51 (140)	5.51 (140)	5.62 (142.7)	0.81 (20.5)	0.81 (20.5)	0.86 (21.9)	0.81 (20.5)	—	—	12.60 (320)	26.10 (663)
4A0156 4A0180 4A0240	6	17.48 (444)	32.44 (824)	16.30 (414)	9.61 (244)	6.16 (156.5)	6.14 (156)	6.14 (156)	6.14 (156)	6.16 (156.5)	0.85 (21.5)	0.95 (24.2)	1.21 (30.8)	0.85 (21.5)	—	—	15.16 (385)	28.58 (726)
4A0302	7	21.89 (556)	42.64 (1083)	20.83 (529)	12.80 (325)	5.67 (144)	5.91 (150)	5.91 (150)	5.91 (150)	5.91 (150)	5.91 (150)	5.67 (144)	0.89 (22.5)	1.10 (28)	1.14 (29)	0.89 (22.5)	19.65 (499)	38.62 (981)

Inverter Mounting
Recommended Hardware
(Not Provided)

Screw M5x14 (Qty. 10)
Tightening Torque
17.7~22.1 (lb·in)
(2.0~2.5 (N·m))

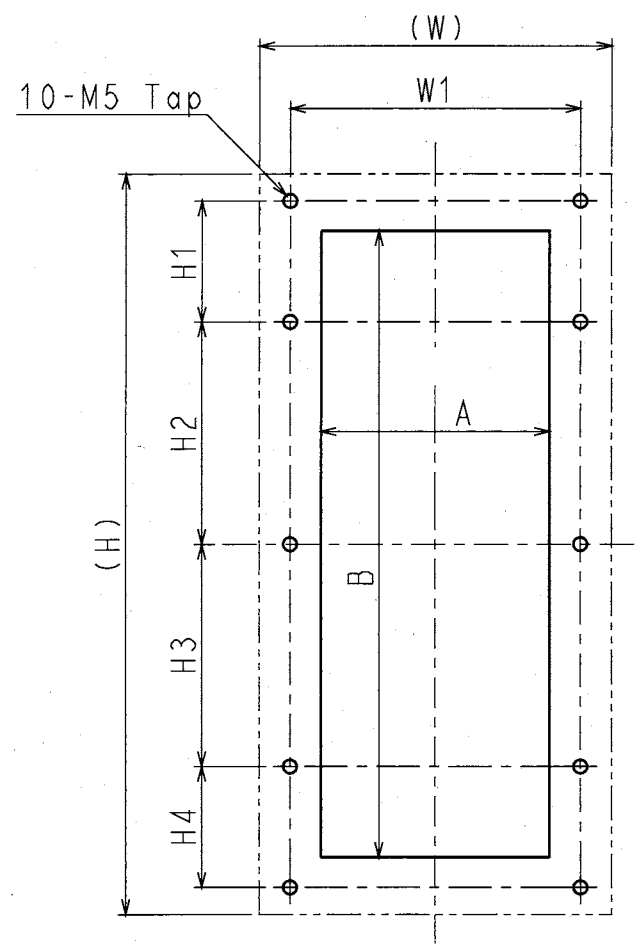


Figure 1

Inverter Mounting
Recommended Hardware
(Not Provided)

Screw M5x14 (Qty. 12)
Tightening Torque
17.7~22.1 (lb·in)
(2.0~2.5 (N·m))

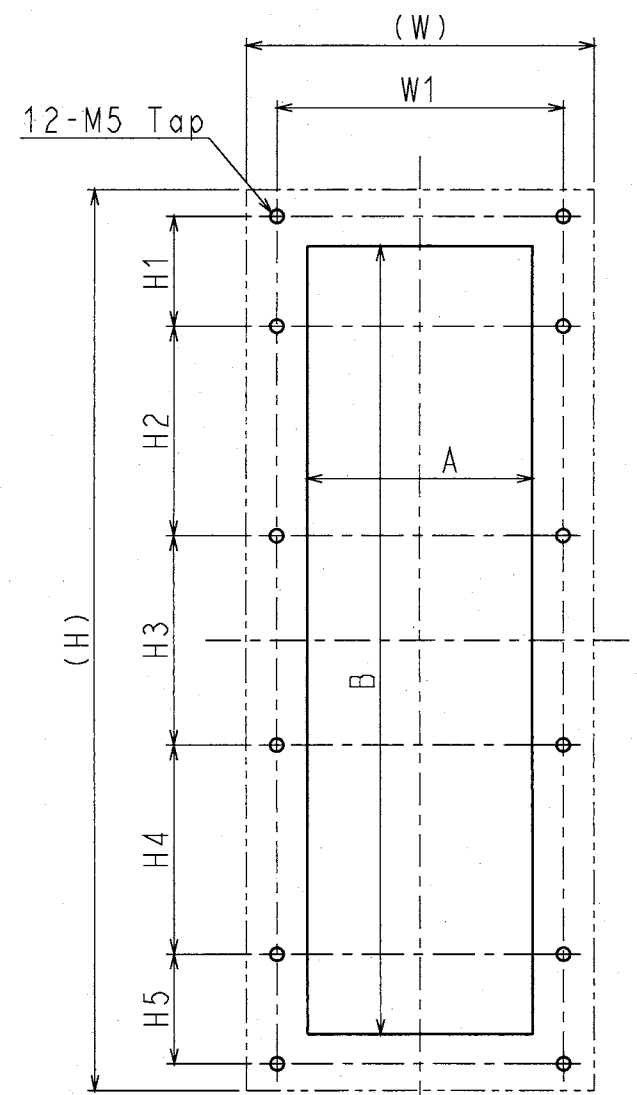


Figure 2

Inverter Mounting
Recommended Hardware
(Not Provided)

Screw M6x14 (Qty. 12)
Tightening Torque
35.4~43.3 (lb·in)
(4.0~4.9 (N·m))

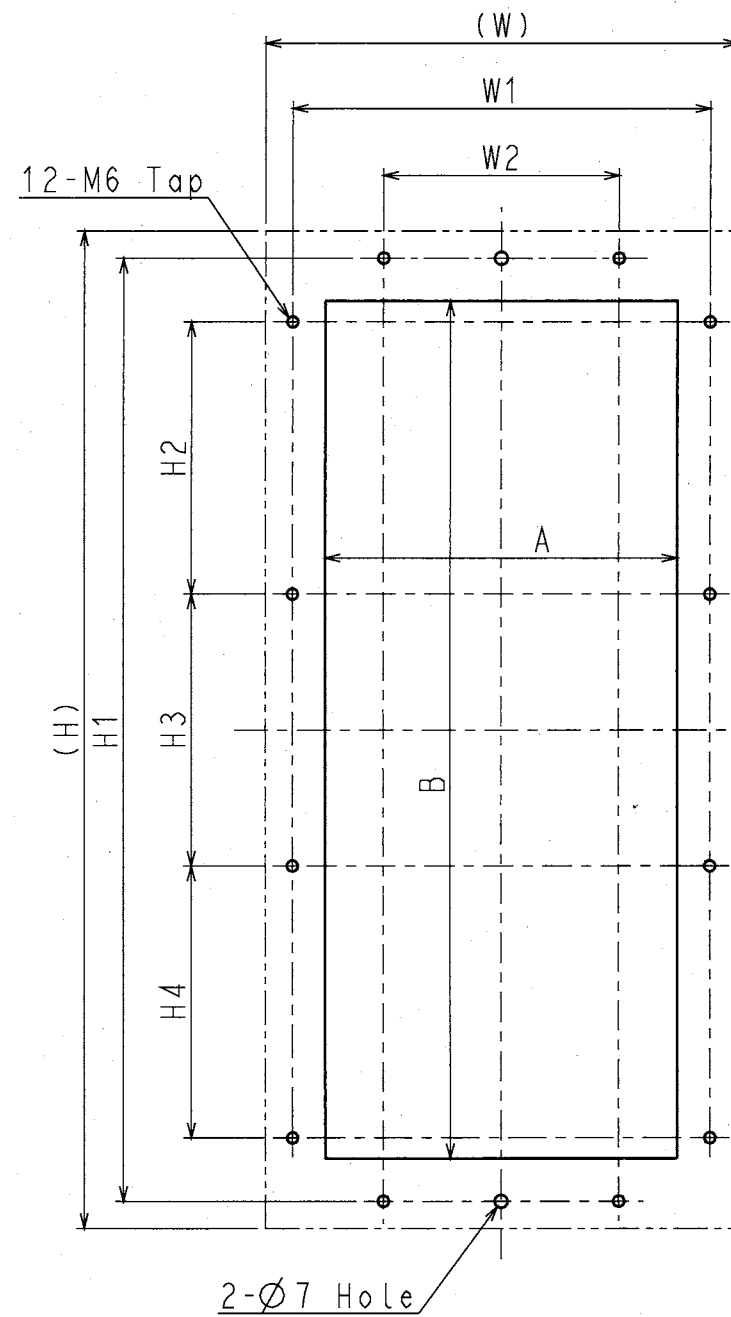


Figure 3

Inverter Mounting
Recommended Hardware
(Not Provided)

Screw M6x14 (Qty. 14)
Tightening Torque
35.4~43.3 (lb·in)
(4.0~4.9 (N·m))

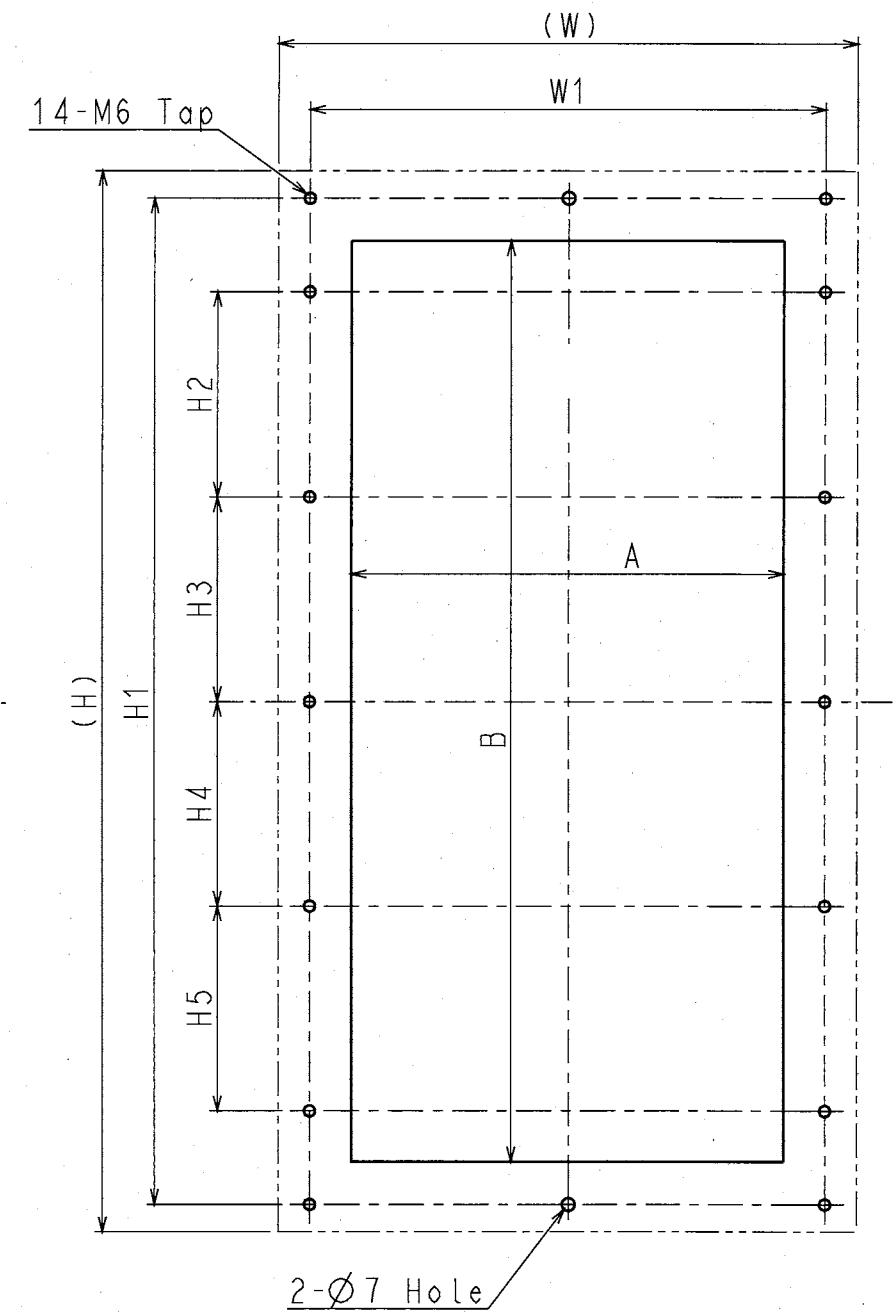


Figure 4

Inverter Mounting
Recommended Hardware
(Not Provided)

Screw M5×20(Qty.12)	Screw M8×20(Qty.4)
Tightening Torque	Tightening Torque
17.7~22.1(lb·in)	79.7~94.6(lb·in)
(2.0~2.5(N·m))	(9.0~10.7(N·m))

Inverter Mounting
Recommended Hardware
(Not Provided)

Screw M5×20(Qty.12)	Screw M10×20(Qty.4)
Tightening Torque	Tightening Torque
17.7~22.1(lb·in)	156.7~199.1(lb·in)
(2.0~2.5(N·m))	(17.7~22.5(N·m))

Inverter Mounting
Recommended Hardware
(Not Provided)

Screw M5×20(Qty.16)	Screw M12×20(Qty.4)
Tightening Torque	Tightening Torque
17.7~22.1(lb·in)	277.9~346.9(lb·in)
(2.0~2.5(N·m))	(31.4~39.2(N·m))

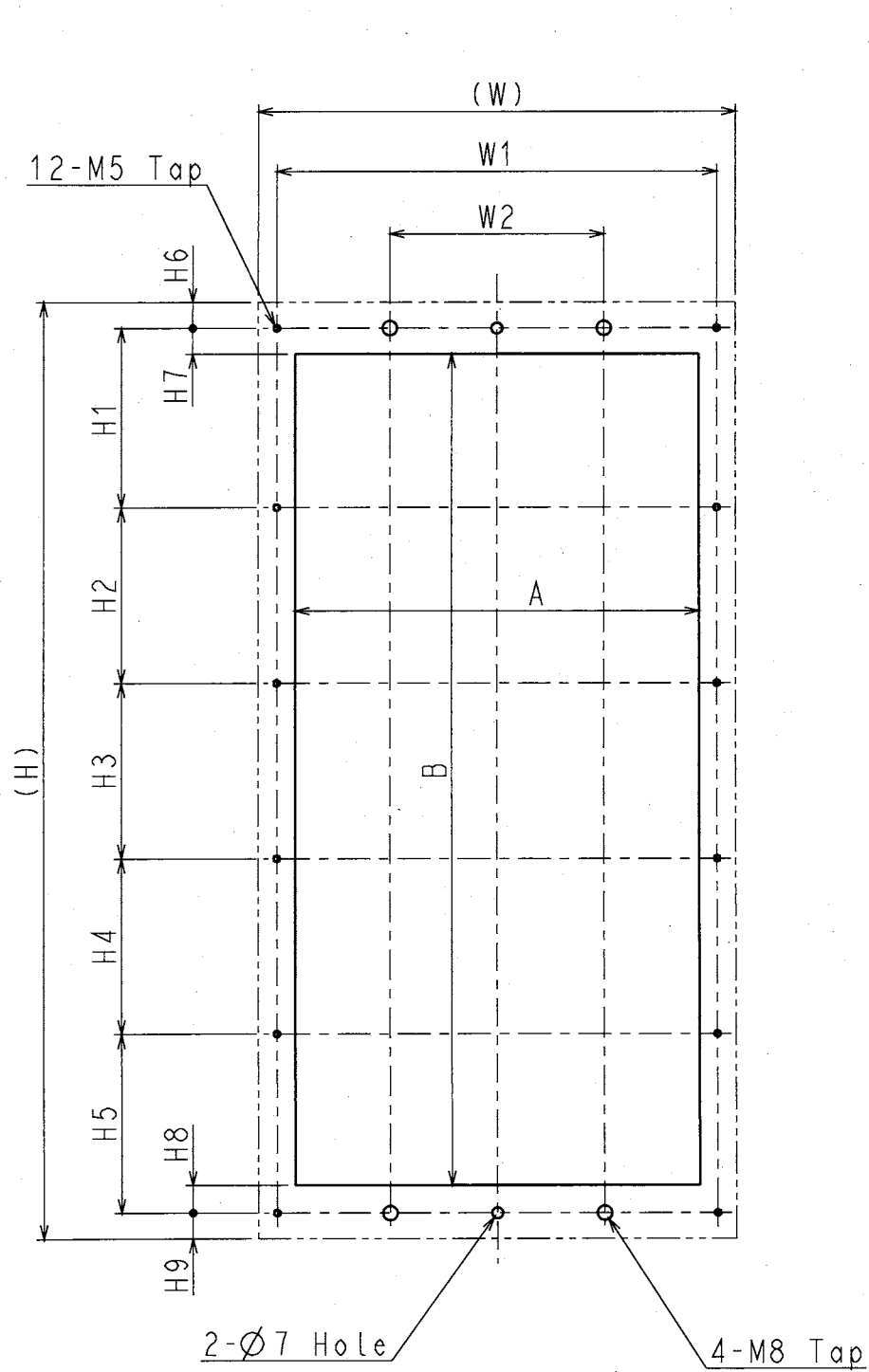


Figure 5

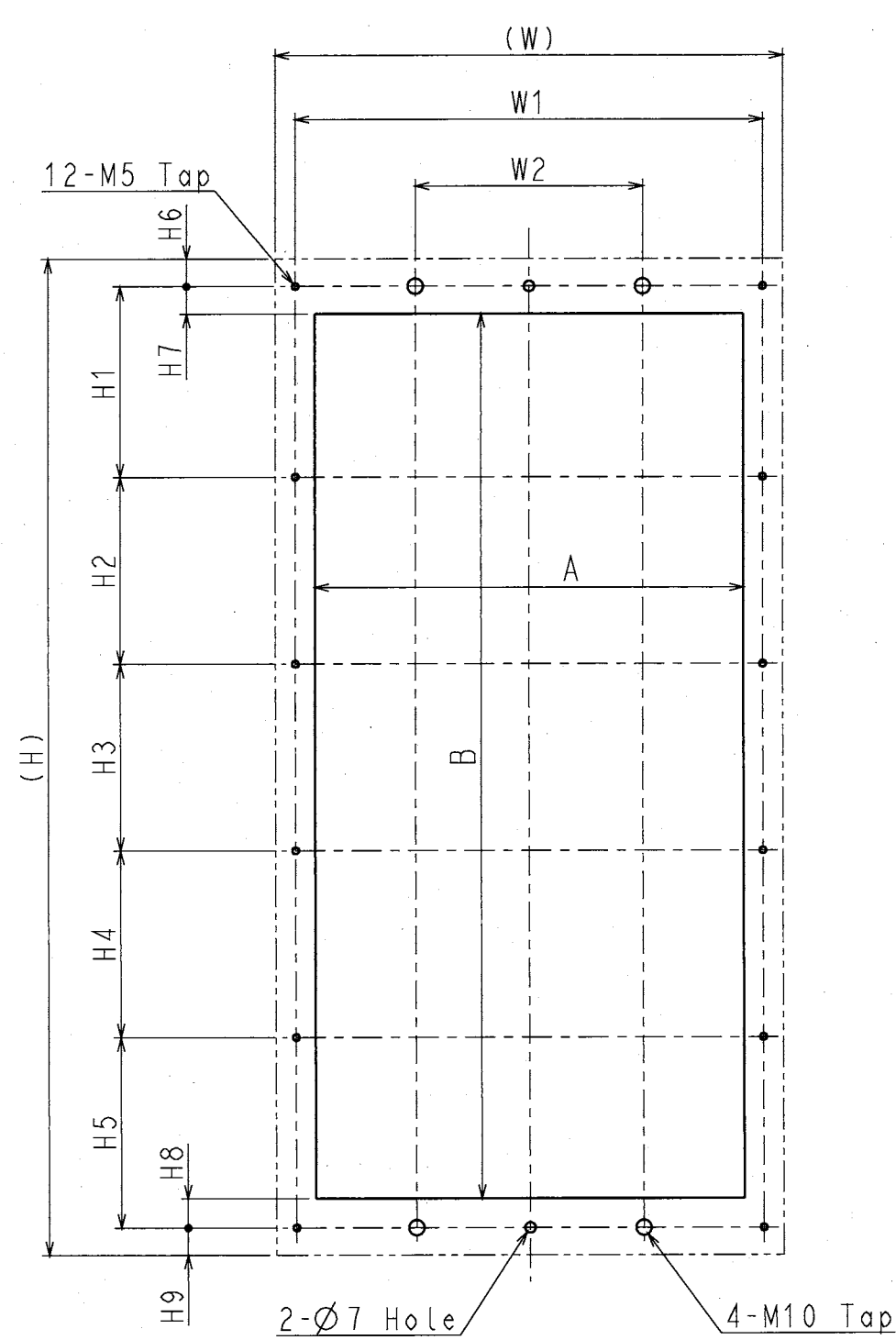


Figure 6

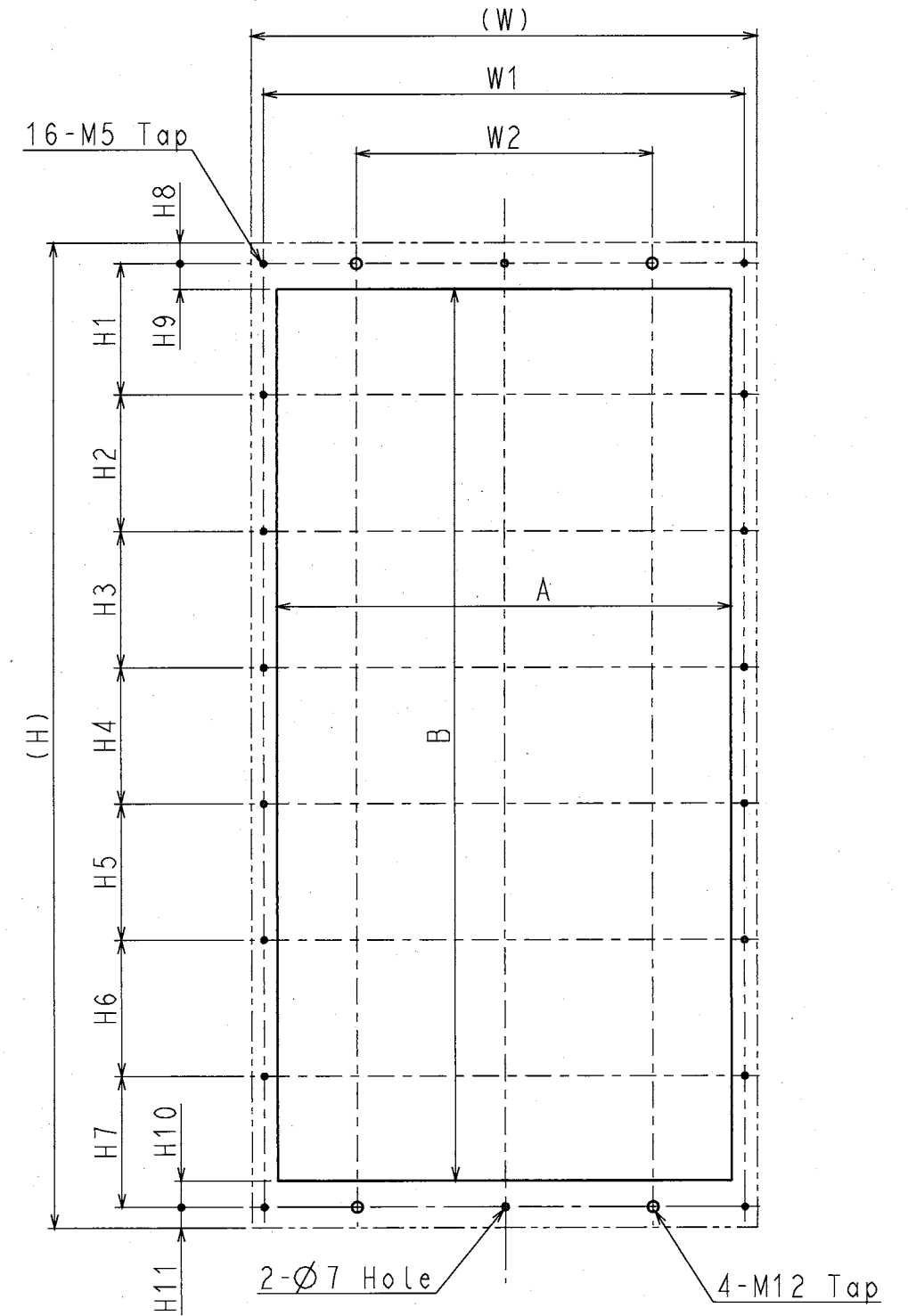


Figure 7