

YASKAWA

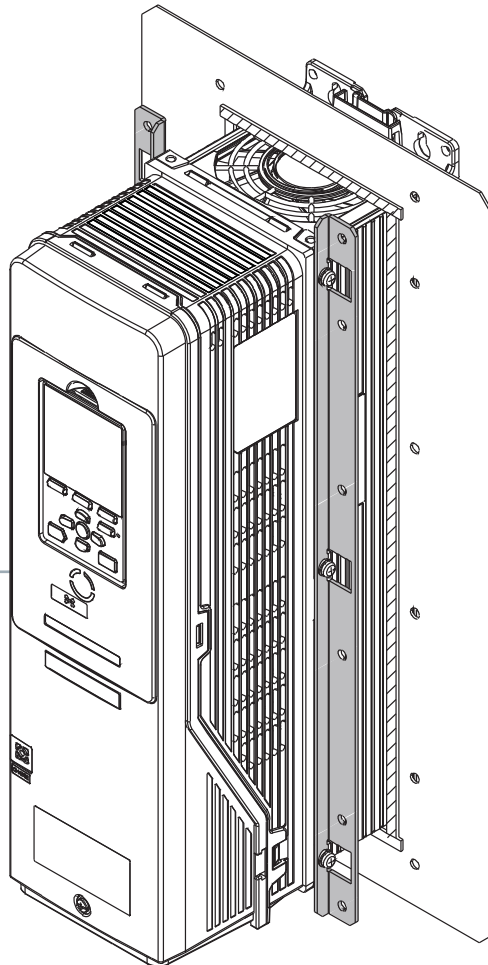
Z1000 to HV600

REPLACEMENT ATTACHMENT OPTION INSTALLATION MANUAL

EXTERNAL HEATSINK MOUNTING

CATALOG CODE:

ZPSD-600-RP-EH12-FRx-x



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1 Receiving

◆ Applicable Documentation

Document	Description
Yaskawa AC Drive Manuals	Refer to the manual packaged with the drive for basic information about the drive. Refer to the Technical Reference for more information about programming and parameter settings. You can download the Technical Reference from the Yaskawa website shown on the back cover of this manual.

◆ Glossary

Terminology Used in this Document	Description
Drive	YASKAWA AC Drive Z1000 YASKAWA AC Drive HV600
Kit Option	YASKAWA AC Drive Z1000 to HV600 Replacement Attachment Kit

2 General Safety

◆ Supplemental Safety Information

- ⚠ DANGER** This signal word identifies a hazard that will cause serious injury or death if you do not prevent it.
- ⚠ WARNING** This signal word identifies a hazard that can cause death or serious injuries if you do not prevent it.
- ⚠ CAUTION** This signal word identifies a hazardous situation, which, if not avoided, can cause minor or moderate injury.
- NOTICE** This signal word identifies a property damage message that is not related to personal injury.

◆ Section Safety

General Precautions
<ul style="list-style-type: none"> Some figures in the instructions include options and drives without covers or safety shields to more clearly show the inside of the drive. Replace covers and shields before operation. Use options and drives only as specified by the instructions. The figures in this manual are examples only. All figures do not apply to all products included in this manual. Yaskawa can change the products, specifications, and content of the instructions without notice to make the product and/or the instructions better. If you damage or lose these instructions, contact a Yaskawa representative or the nearest Yaskawa sales office on the rear cover of the manual, and tell them the document number on the front cover to order new copies.

⚠ DANGER **Electrical Shock Hazard.** Do not examine, connect, or disconnect wiring on an energized drive. Before servicing, disconnect all power to the equipment and wait for the time specified on the warning label at a minimum. The internal capacitor stays charged after the drive is de-energized. The charge indicator LED extinguishes when the DC bus voltage decreases below 50 Vdc. When all indicators are OFF, remove the covers before measuring for dangerous voltages to make sure that the drive is safe. If you do work on the drive when it is energized, it will cause serious injury or death from electrical shock.

⚠ WARNING **Electrical Shock Hazard.** Only let approved personnel install, wire, maintain, examine, replace parts, and repair the drive. If personnel are not approved, it can cause serious injury or death.

⚠ WARNING **Sudden Movement Hazard.** Tighten the screws to the specified tightening torque. Incorrect tightening torques can cause damage to equipment and cause serious injury or death from falling equipment.

⚠ CAUTION **Burn Hazard.** Do not touch a hot drive heatsink. De-energize the drive, wait for a minimum of 15 minutes, then make sure that the heatsink is cool before you replace the cooling fans. If you touch a hot drive heatsink, it can burn you.

NOTICE **Damage to Equipment.** When you touch the drive and circuit boards, make sure that you observe correct electrostatic discharge (ESD) procedures. If you do not follow procedures, it can cause ESD damage to the drive circuitry.

3 Overview

This manual shows how to install the option on an HV600 drive so that you can use the existing mounting holes from a Z1000 drive installation when you replace an external-heatsink-mounted Type 12 Z1000 drive with an external-heatsink-mounted Type 12 HV600 drive.

◆ Compatible Products and Specifications

Table 3.1 240 V Models

Drive		Option Product Code	Part Code						Supplied Hardware	Installation Procedure and Dimensions Reference
Z1000 CIMR-Zx	HV600 CC HV60x		Attachment A	Attachment B	Attachment C	Attachment D	Attachment E	Gasket UGK00662 -xxx		
2x0011 2x0017	2011 2017	ZPSD-600-RP-EH12-FR1-1	-	-	USP05528-021	USP05528-021	-	001_1 001_2	M5 × 12 pan head screw (4)	Procedure 1 7
2x0024 2x0031	2024 2031	ZPSD-600-RP-EH12-FR2-1	-	-	USP05529-021	USP05529-021	-	002_1 002_2	M5 × 12 pan head screw (6)	Procedure 1 7
2x0046 2x0059	2046 2059	ZPSD-600-RP-EH12-FR3-1	USP05552-021	USP05548-021	USP05563-021	USP05563-021	-	003_1 003_2	M5 × 12 pan head screw (6) M6 × 2 pan head screw (4)	Procedure 2 10
2x0075 2x0088 2x0114	2075 2088 2114	ZPSD-600-RP-EH12-FR4-1	USP05556-021	USP05557-021	USP05560-021	USP05561-021	-	004_1 004_2	M5 × 12 pan head screw (6) M6 × 12 pan head screw (4)	Procedure 2 10
2x0143 2x0169	2143 2169	ZPSD-600-RP-EH12-FR6	USP05564-021	USP05565-021	USP05539-021	USP05539-021	USP05567-021	005_1 005_2 008_1 008_2	M4 × 10 pan head screw (10) M5 × 12 pan head screw (12)	Procedure 5 23
2x0211 2x0273	2211 2273	ZPSD-600-RP-EH12-FR9	-	USP05565-021	USP05575-021	USP05575-021	USP05570-021	006_1 006_2 008_1 008_2	M4 × 10 pan head screw (8) M5 × 12 pan head screw (10) M10 × 20 cross-recessed hexagonal head bolt (2)	Procedure 6 28

Table 3.2 480 V Models

Drive		Option Product Code	Part Code						Supplied Hardware	Installation Procedure and Dimensions Reference
Z1000 CIMR-Zx	HV600 CC HV60x		Attachment A	Attachment B	Attachment C	Attachment D	Attachment E	Gasket UGK00662 -xxx		
4x0005 4x0008 4x0011	4005 4008 4011	ZPSD-600-RP-EH12-FR1-1	-	-	USP05528-021	USP05528-021	-	001_1 001_2	M5 × 12 pan head screw (4)	Procedure 1 7
4x0014	4014	ZPSD-600-RP-EH12-FR1-2	-	-	USP05530-021	USP05531-021	USP05532-021	001_1 001_2 002_1 002_2	M5 × 12 pan head screw (6)	Procedure 3 14
4x0021 4x0027	4021 4027	ZPSD-600-RP-EH12-FR2-1	-	-	USP05529-021	USP05529-021	-	002_1 002_2	M5 × 12 pan head screw (6)	Procedure 1 7
4x0034	4034	ZPSD-600-RP-EH12-FR2-2	-	-	USP05537-021	USP05537-021	USP05538-021	002_1 002_2 003_1 003_2	M5 × 12 pan head screw (16)	Procedure 3 14
4x0040 4x0052xx B	4040 4052	ZPSD-600-RP-EH12-FR3-1	USP05552-021	USP05548-021	USP05563-021	USP05563-021	-	003_1 003_2	M5 × 12 pan head screw (6) M6 × 12 pan head screw (4)	Procedure 2 10

3 Overview

Drive		Option Product Code	Part Code						Supplied Hardware	Installation Procedure and Dimensions Reference
Z1000 CIMR-Zx	HV600 CC HV60x		Attachment A	Attachment B	Attachment C	Attachment D	Attachment E	Gasket UGK00662 -xxx		
4x0052xx A 4x0065	4052 4065	ZPSD-600-RP- EH12-FR3-2	USP05548-021	USP05549-021	USP05551-021	USP05551-021	USP05550-021	003_1 003_2 004_1 004_2	M5 × 12 pan head screw (6) M6 × 12 pan head screw (14)	Procedure 4 18
4x0077 4x0096	4077 4096	ZPSD-600-RP- EH12-FR4-1	USP05556-021	USP05557-021	USP05560-021	USP05561-021	-	004_1 004_2	M5 × 12 pan head screw (6) M6 × 12 pan head screw (4)	Procedure 2 10
4x0124	4124	ZPSD-600-RP- EH12-FR4-2	USP05553-021	USP05558-021	USP05554-021	USP05555-021	USP05562-021	004_1 004_2 010_1 010_2	M5 × 12 pan head screw (6) M6 × 12 pan head screw (16)	Procedure 4 18
4x0156	4156	ZPSD-600-RP- EH12-FR6	USP05564-021	USP05565-021	USP05539-021	USP05539-021	USP05567-021	005_1 005_2 008_1 008_2	M4 × 10 pan head screw (10) M5 × 12 pan head screw (12)	Procedure 5 23
4x0180 4x0240	4180 4240	ZPSD-600-RP- EH12-FR9	-	USP05565-021	USP05575-021	USP05575-021	USP05570-021	006_1 006_2 008_1 008_2	M4 × 10 pan head screw (8) M5 × 12 pan head screw (10) M10 × 20 cross- recessed hexagonal head bolt (2)	Procedure 6 28
4x0302	4302	ZPSD-600-RP- EH12-FR10	-	USP05572-021	USP05576-021	USP05576-021	USP05574-021	007_1 007_2 009_1 009_2	M5 × 12 pan head screw (18) M12 × 30 cross- recessed hexagonal bolt (2)	Procedure 6 28

◆ Required Tools

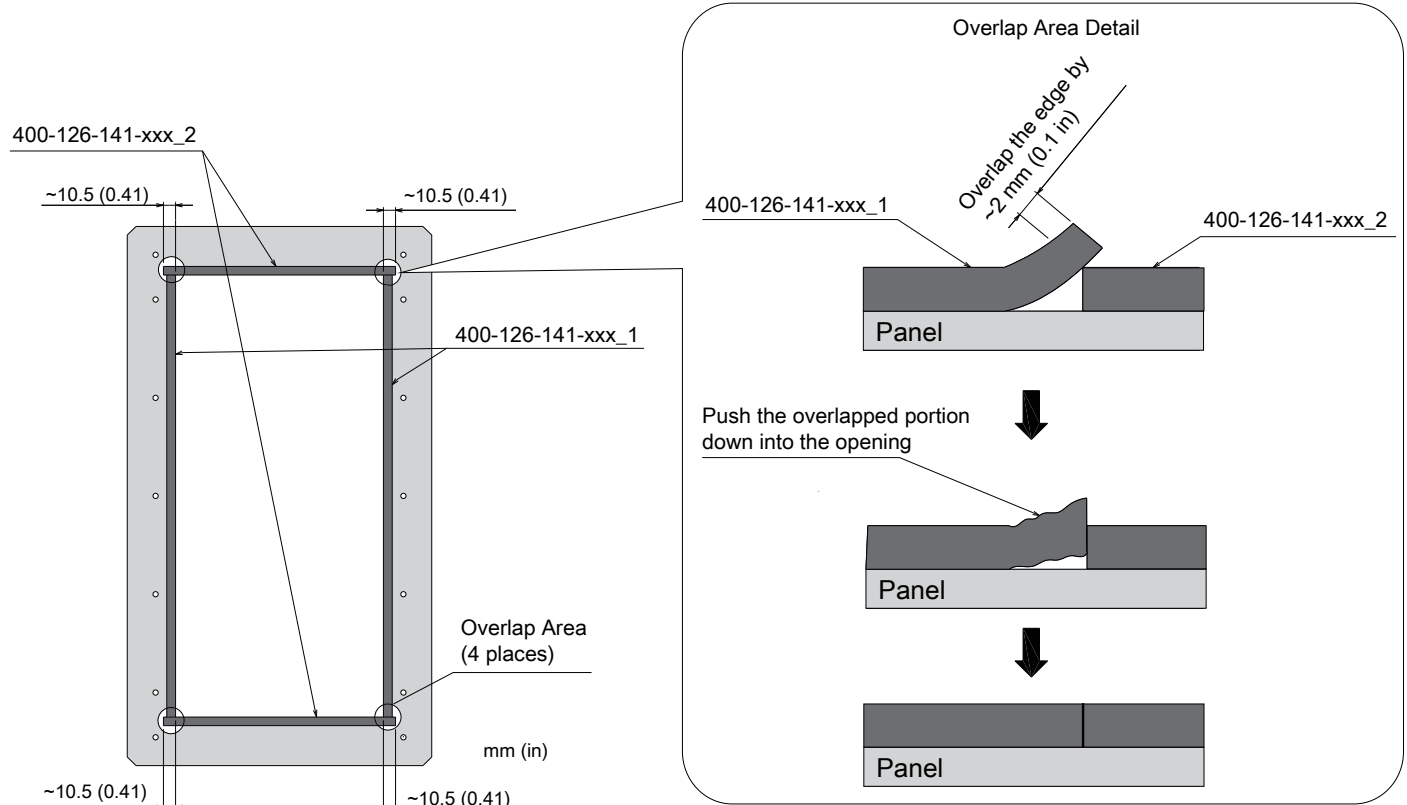
A Phillips screwdriver #2 is necessary to install the attachment.

4 Replacement Attachment Installation Procedures

⚠ CAUTION Crush Hazard. Tighten terminal cover screws and hold the case safely when you move the drive. If the drive or covers fall, it can cause moderate injury.

◆ Gasket Installation

Attach the gasket to the customer panel as shown here.



◆ Procedure for HV600 Models 2011 to 2031 and 4005 to 4027

Drive		Option Product Code	Part Code			Supplied Hardware
Z1000 CIMR-Zx	HV600 Catalog Code HV60x		Attachment C	Attachment D	Gasket UGK00662-xxx	
2x0011 2x0017	2011 2017	ZPSD-600-RP-EH12-FR1-1	USP05528-021	USP05528-021	001_1 001_2	M5 × 12 pan head screw (4)
4x0005 4x0008 4x0011	4005 4008 4011					
2x0024 2x0031	2024 2031					
4x0021 4x0027	4021 4027	ZPSD-600-RP-EH12-FR2-1	USP05529-021	USP05529-021	002_1 002_2	M5 × 12 pan head screw (6)

1. Remove the top cover and the standard unit mounting plate.

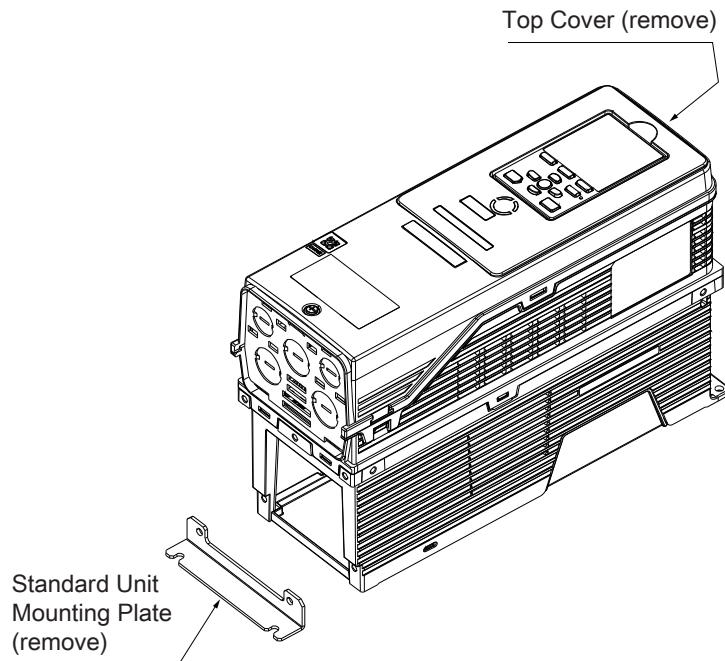


Figure 4.1 Remove Top Cover and Mounting Plate

2. Use the supplied hardware to attach Attachments C and D to the sides of the drive. Remove the cable entry plate if necessary.

Note:

Attachments C and D are the same part number. You can use either part on either side.

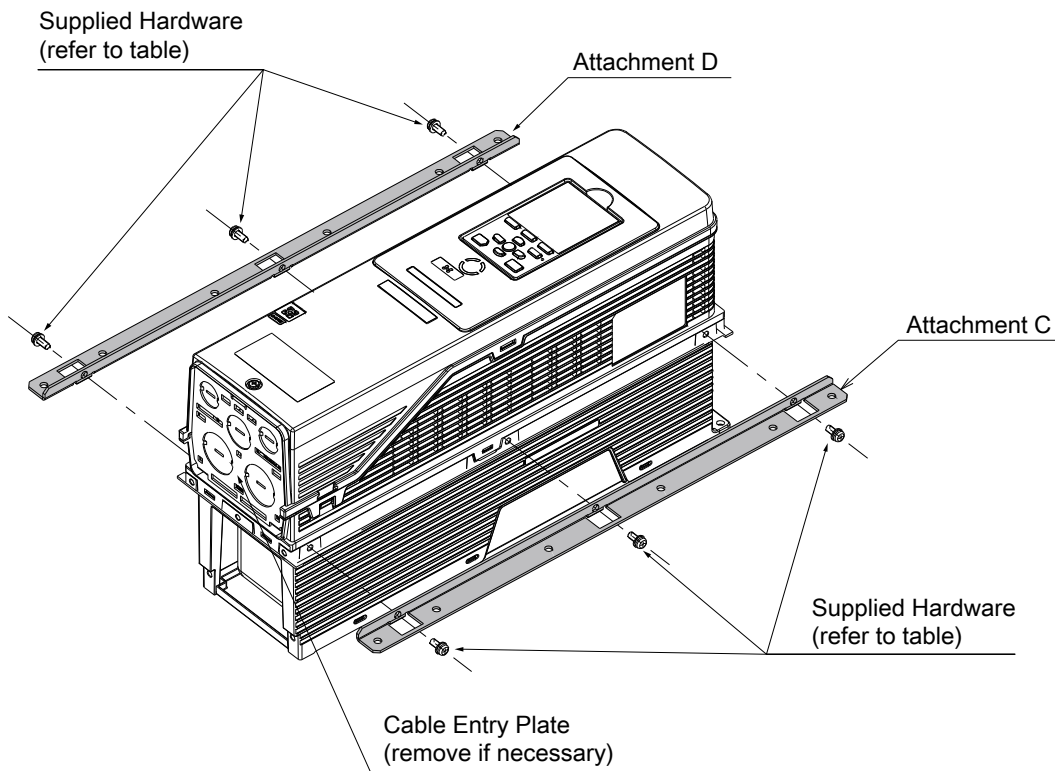


Figure 4.2 Attach Attachments C and D and Remove Cable Entry Plate

3. Attach gaskets to the customer panel and install the drive with attachments to the panel. Refer to [Gasket Installation on page 7](#) for gasket installation.

Note:

If you only need Type 1 level protection, it is not necessary to attach the gaskets. Refer to manual TOEPYAIPT10 for more information about Type 1 installations.

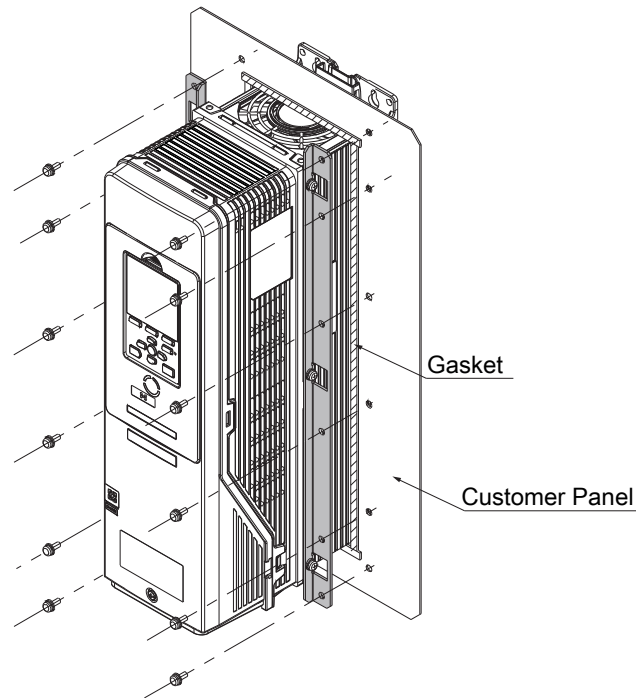


Figure 4.3 Attach Gaskets and Install on Customer Panel

Models 2011, 2017 and 4005 to 4011

Models 2024, 2031, 4021, and 4027

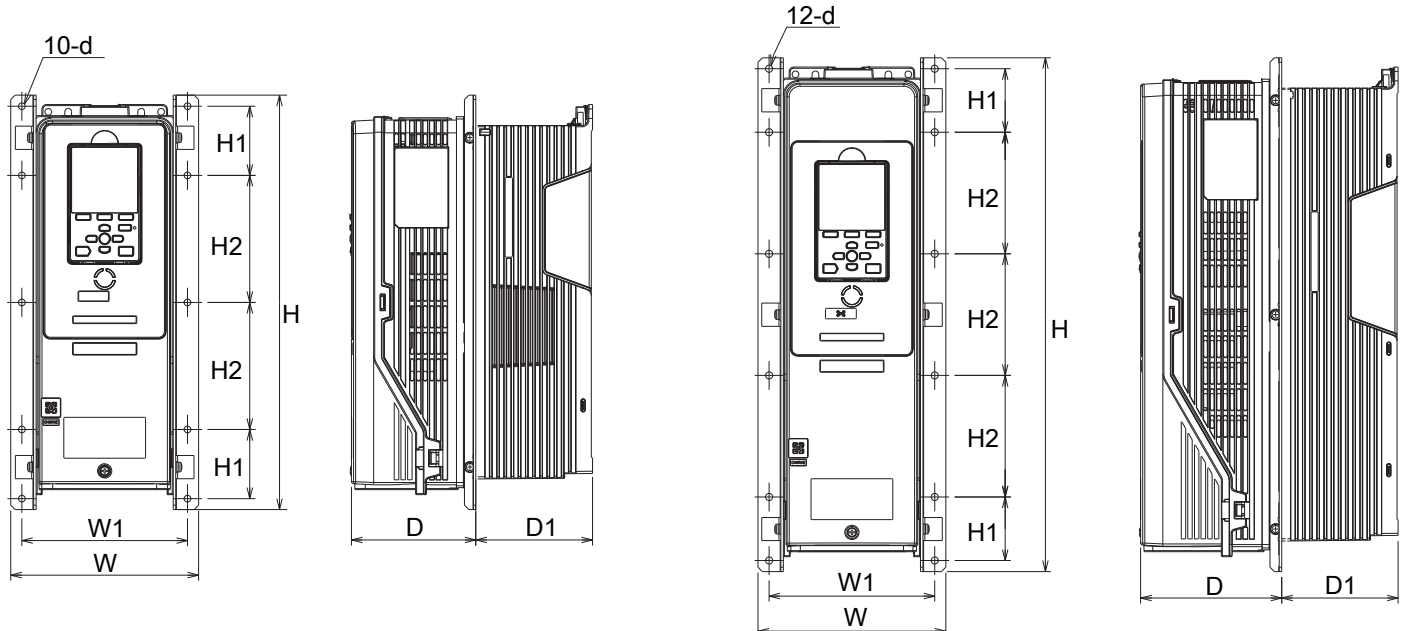


Figure 4.4 Exterior and Mounting Dimensions after Installation

4 Replacement Attachment Installation Procedures

HV600 Catalog Code HV60x		Dimensions mm (in)							
208 V	480 V	W	H	D	W1	H1	H2	D1	d
2011 2017	4005 4008 4011	170 (6.7)	375 (14.8)	112.7 (4.4)	150 (5.9)	62.5 (2.46)	115 (4.53)	105.3 (4.1)	M5
2024 2031	4021 4027	170 (6.7)	465 (18.3)	127.7 (5)	150 (5.9)	57.5 (2.26)	110 (4.33)	105.3 (4.1)	M5

◆ Procedure for HV600 Models 2046 to 2114 and 4040 to 4096

Drive		Option Product Code	Part Code					Supplied Hardware
Z1000 CIMR-Zx	HV600 Catalog Code HV60x		Attachment A	Attachment B	Attachment C	Attachment D	Gasket UGK00662-xxx	
2x0046 2x0059	2046 2059	ZPSD-600-RP-EH12-FR3-1	USP05552-021	USP05548-021	USP05563-021	USP05563-021	003_1 003_2	M5 × 12 pan head screw (6)
4x0040 4x0052xxB	4040 4052							M6 × 12 pan head screw (4)
2x0075 2x0088 2x0114	2075 2088 2114	ZPSD-600-RP-EH12-FR4-1	USP05556-021	USP05557-021	USP05560-021	USP05561-021	004_1 004_2	M5 × 12 pan head screw (6)
4x0077 4x0096	4077 4096							M6 × 12 pan head screw (4)

1. Remove the top cover and the standard unit mounting plate.

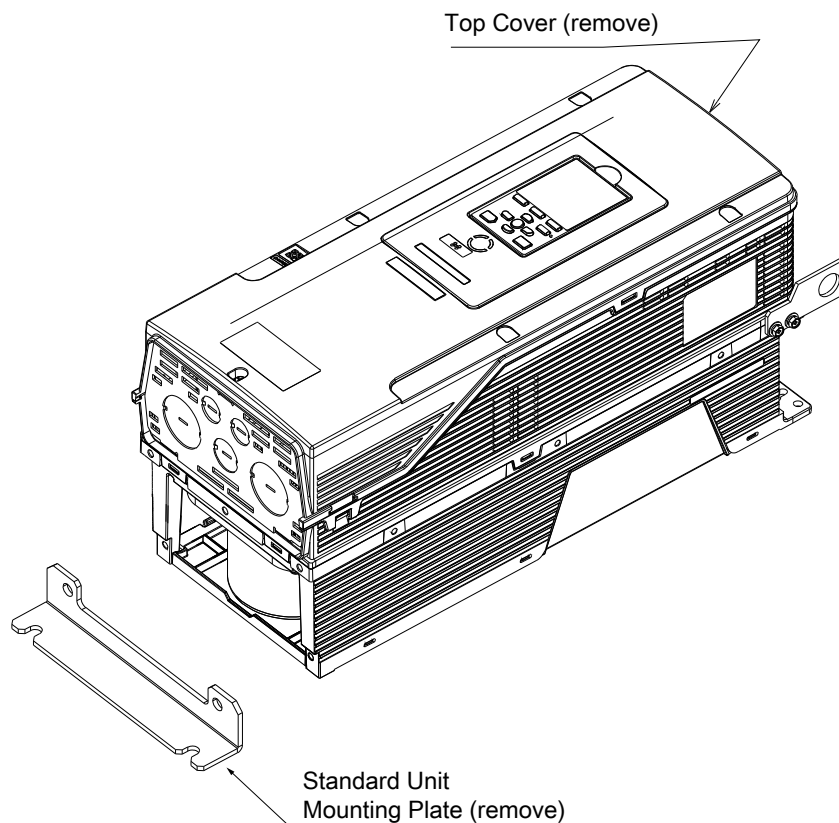


Figure 4.5 Remove Top Cover and Mounting Plate

2. Use the supplied hardware to attach Attachment A to the top of the drive.

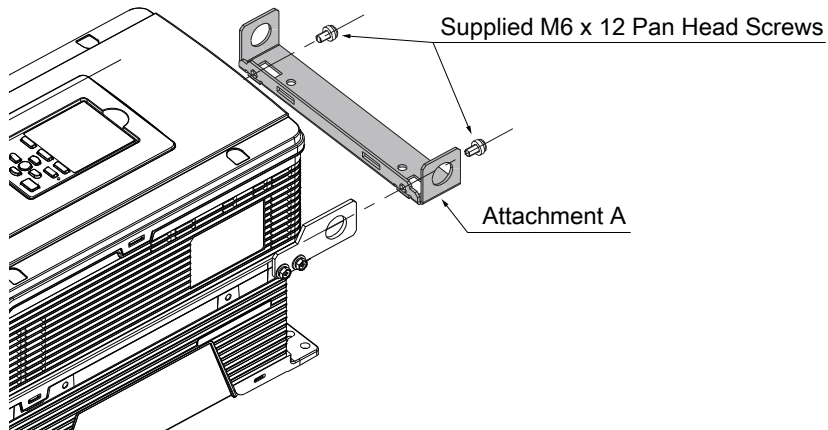


Figure 4.6 Attach Attachment A

3. Use the supplied hardware to attach Attachment B to the bottom of the drive.

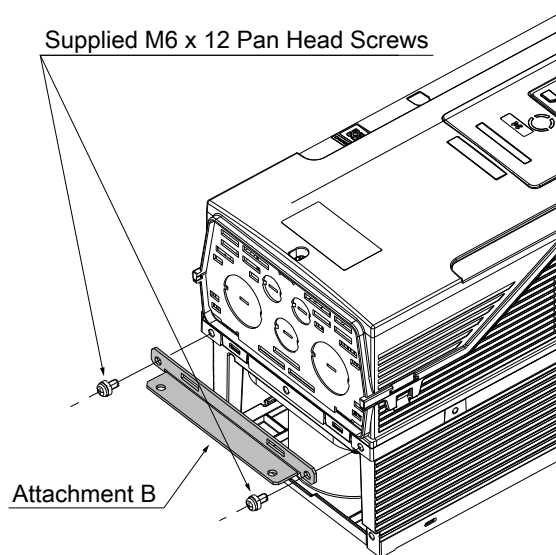


Figure 4.7 Attach Attachment B

4. Use the supplied hardware to attach Attachments C and D to the sides of the drive. Remove the cable entry plate if necessary.

Note:

Attachments C and D are the same part number. You can use either part on either side.

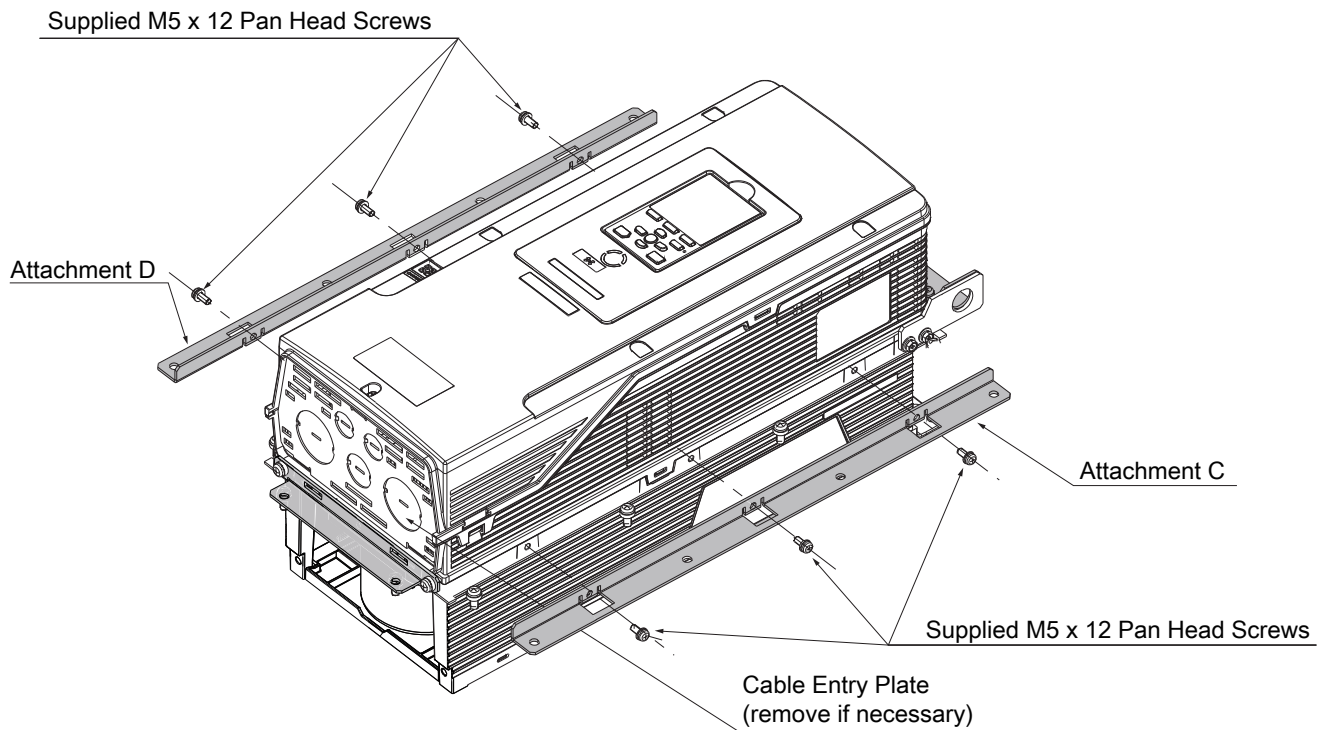


Figure 4.8 Attach Attachments C and D and Remove Cable Entry Plate

5. Attach gaskets to the customer panel and install the drive with attachments to the panel. Refer to [Gasket Installation on page 7](#) for gasket installation.

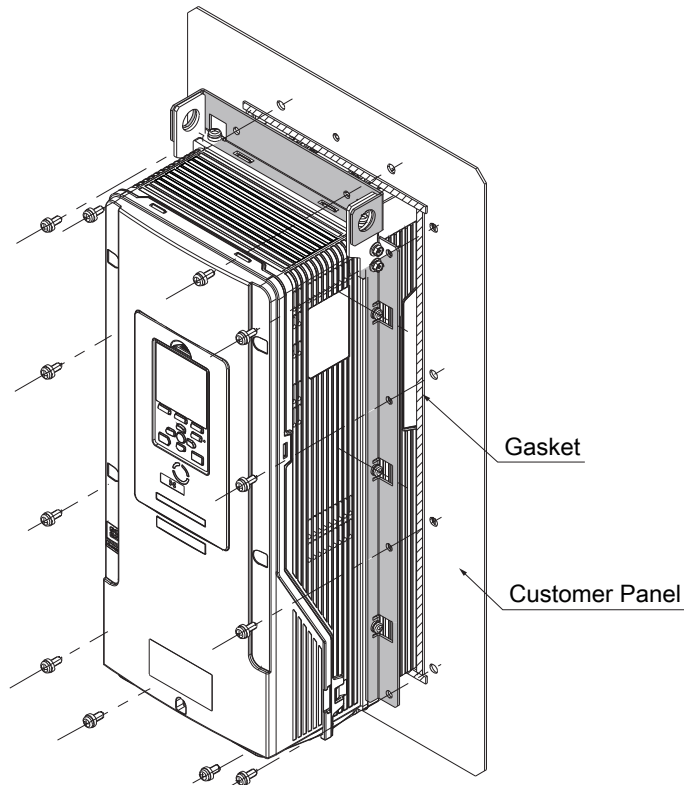


Figure 4.9 Attach Gaskets and Install on Customer Panel

Models 2046, 2059, 4040, and 4052

Models 2075 to 2114, 4077, and 4096

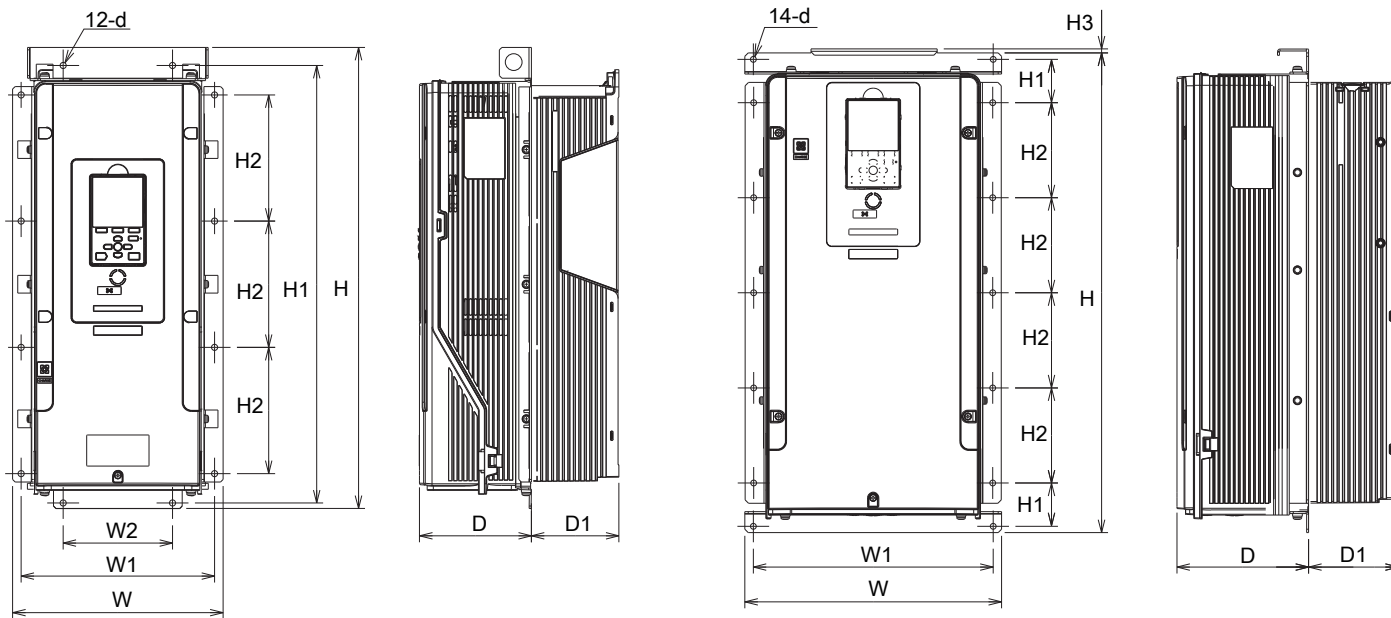


Figure 4.10 Exterior and Mounting Dimensions after Installation

HV600 Catalog Code HV60x		Dimensions mm (in)									
208 V	480 V	W	H	D	W1	W2	H1	H2	H3	D1	d
2046 2059	4040 4052	250 (9.8)	548 (21.6)	133 (5.2)	230 (9.1)	130 (5.12)	520 (20.47)	150 (5.9)	-	104 (4.1)	M6
2075 2088 2114	4077 4096	305 (12)	570 (22.4)	156.5 (6.16)	285 (11.2)	-	51.5 (2)	113 (4.4)	10 (0.39)	106.5 (4.19)	M6

◆ Procedure for HV600 Models 4014 and 4034

Drive		Option Product Code	Part Code				Supplied Hardware
Z1000 CIMR-Zx	HV600 Catalog Code HV60x		Attachment C	Attachment D	Attachment E	Gasket UGK00662-xxx	
4x0014	4014	ZPSD-600-RP-EH12-FR1-2	USP05530-021	USP05531-021	USP05532-021	001_1 001_2 002_1 002_2	M5 × 12 pan head screw (6)
4x0034	4034	ZPSD-600-RP-EH12-FR2-2	USP05537-021	USP05537-021	USP05538-021	002_1 002_2 003_1 003_2	M5 × 12 pan head screw (16)

1. Remove the Top Cover and Standard Unit Mounting Plate.

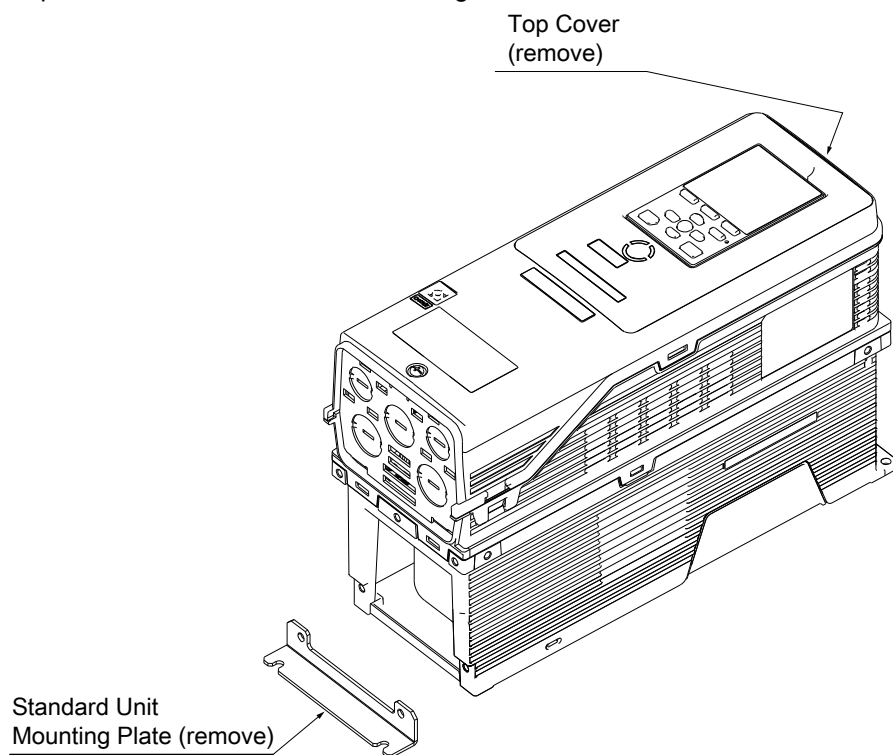


Figure 4.11 Remove Top Cover and Mounting Plate

2. Use the supplied hardware to attach Attachments C and D to the sides of the drive.

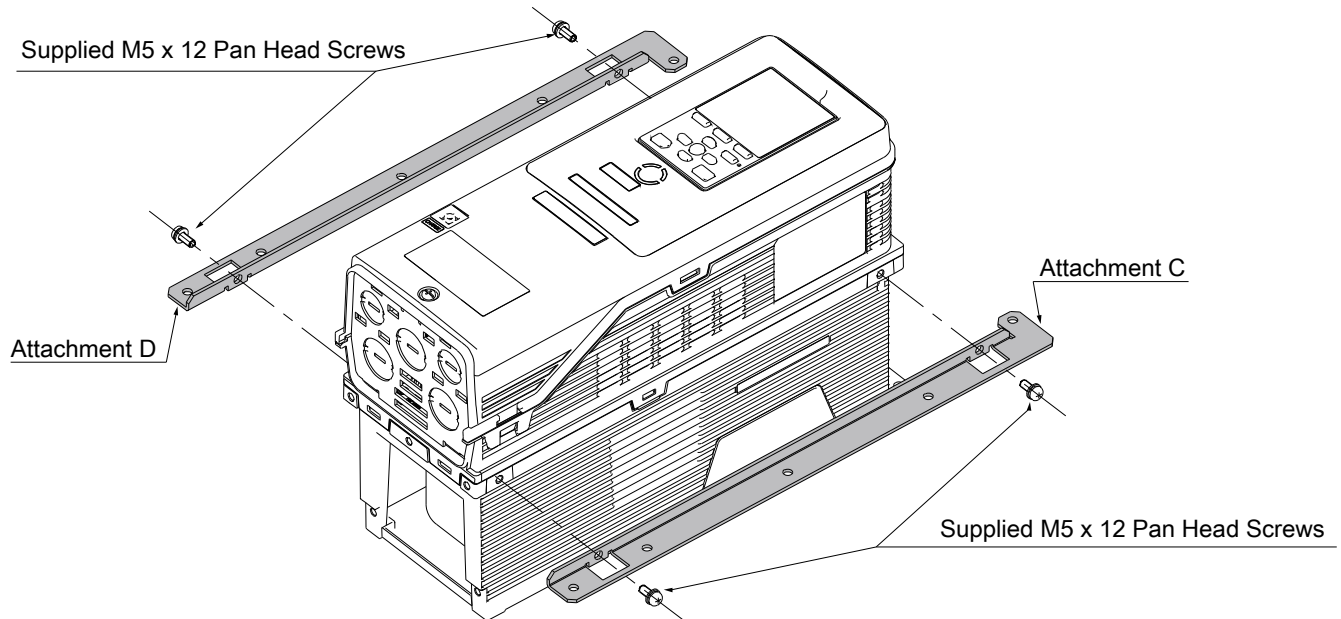


Figure 4.12 Attach Attachments C and D

3. Attach gaskets to the Attachment E. Refer to [Gasket Installation on page 7](#) for gasket installation. Use the supplied hardware to attach Attachment E to Attachments C and D. Remove the cable entry plate if necessary

Note:

For kit ZPSD-600-RP-EH12-FR1-2, if you only need Type 1 level protection, it is not necessary to attach the gaskets. Refer to manual TOEPYAIPT10 for more information about Type 1 installations.

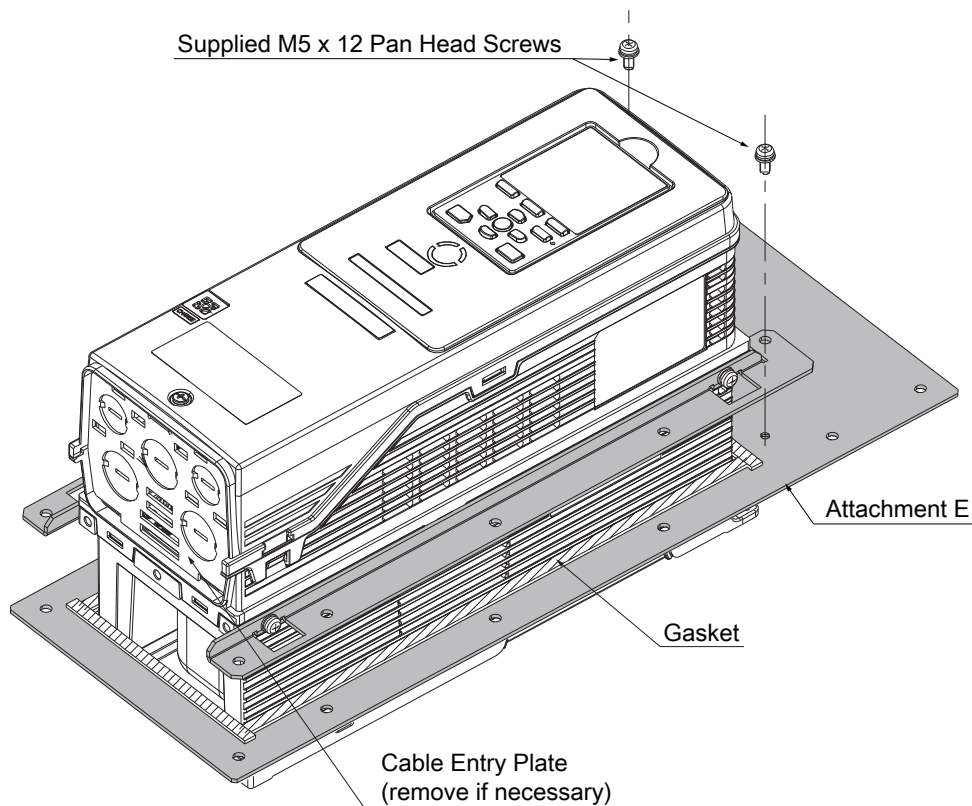


Figure 4.13 Attach Attachment E and Remove Cable Entry Plate

4. Attach gaskets to the customer panel and install the drive with attachments to the panel. Refer to [Gasket Installation on page 7](#) for gasket installation.

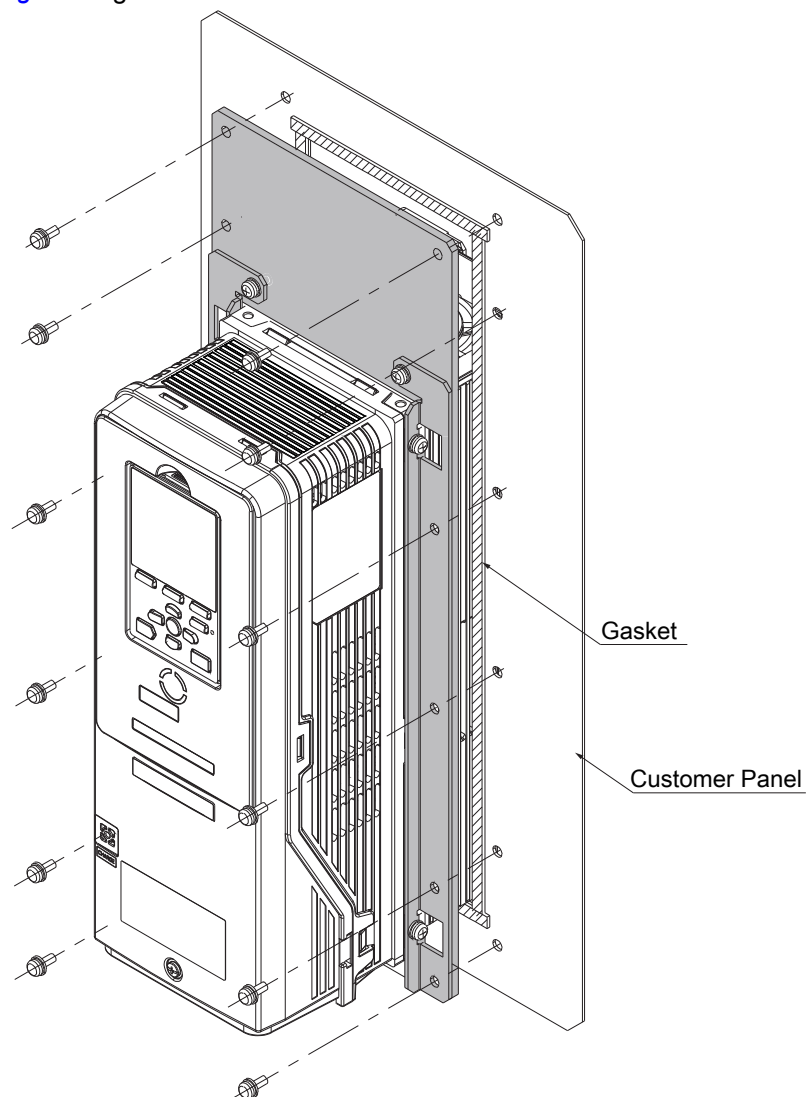


Figure 4.14 Attach Gaskets and Install on Customer Panel

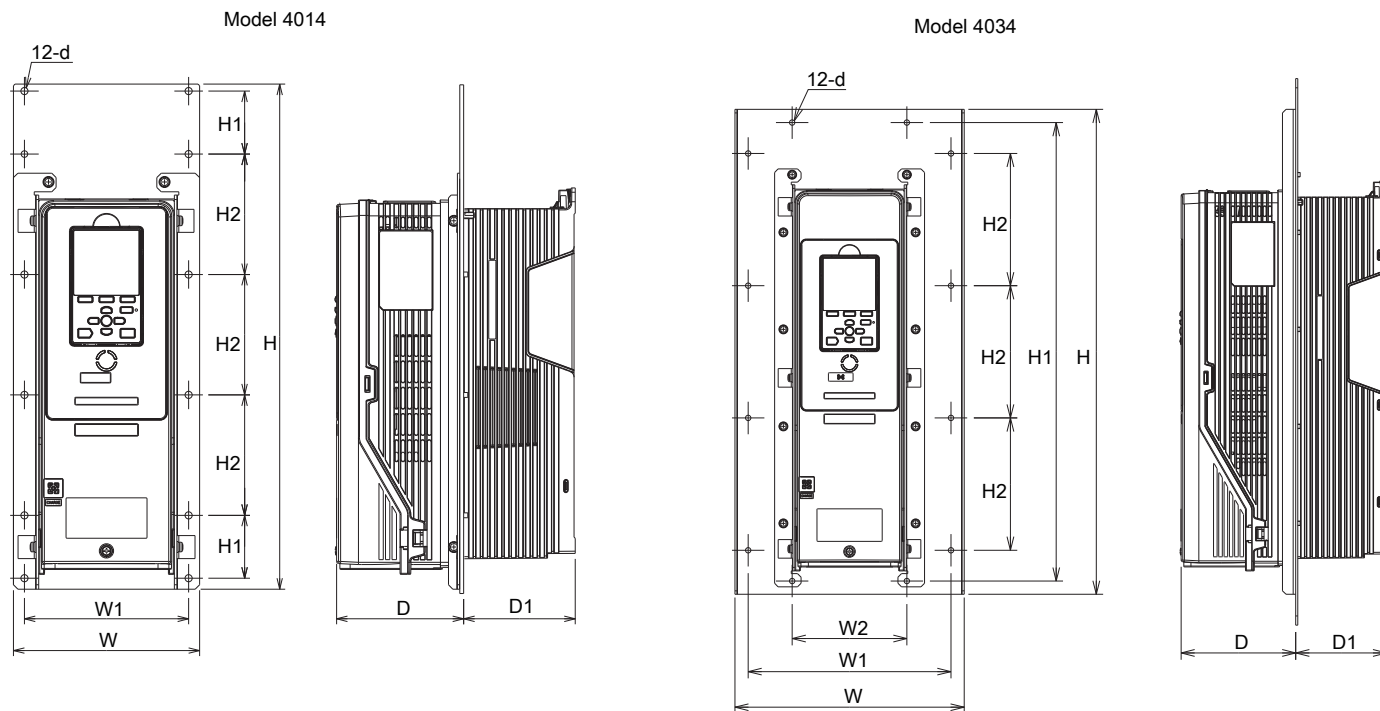


Figure 4.15 Exterior and Mounting Dimensions after Installation

HV600 Catalog Code HV60x	Dimensions mm (in)								
	W	H	D	W1	W2	H1	H2	D1	d
4014	170 (6.7)	465 (18.3)	117.2 (4.6)	150 (5.9)	-	57.5 (2.26)	110 (4.33)	100.8 (4)	M6
4034	260 (10.24)	550 (21.65)	130 (5.1)	230 (9.06)	130 (5.12)	520 (20.47)	150 (5.91)	103 (4.1)	M6

◆ Procedure for HV600 Models 4052, 4065, and 4124

Drive		Option Product Code	Part Code						Supplied Hardware
Z1000 CIMR-Zx	HV600 Catalog Code HV60x		Attachment A	Attachment B	Attachment C	Attachment D	Attachment E	Gasket UGK00662-xxx	
4x0052xxA 4x0065	4052 4065	ZPSD-600-RP-EH12-FR3-2	USP05548-021	USP05549-021	USP05551-021	USP05551-021	USP05550-021	003_1 003_2 004_1 004_2	M5 × 12 pan head screw (6) M6 × 12 pan head screw (14)
4x0124	4124	ZPSD-600-RP-EH12-FR4-2	USP05553-021	USP05558-021	USP05554-021	USP05555-021	USP05562-021	004_1 004_2 010_1 010_2	M5 × 12 pan head screw (6) M6 × 12 pan head screw (16)

1. On models 4052 and 4124, remove the Top Cover and Standard Unit Mounting Plate. On model 4065, remove only the Standard Unit Mounting Plate. Do not remove the Top Cover.

NOTICE *Damage to Equipment.. Do not remove the top protective cover of model 4065. If you remove the cover, the drive temperature will increase and it can cause damage to the drive.*

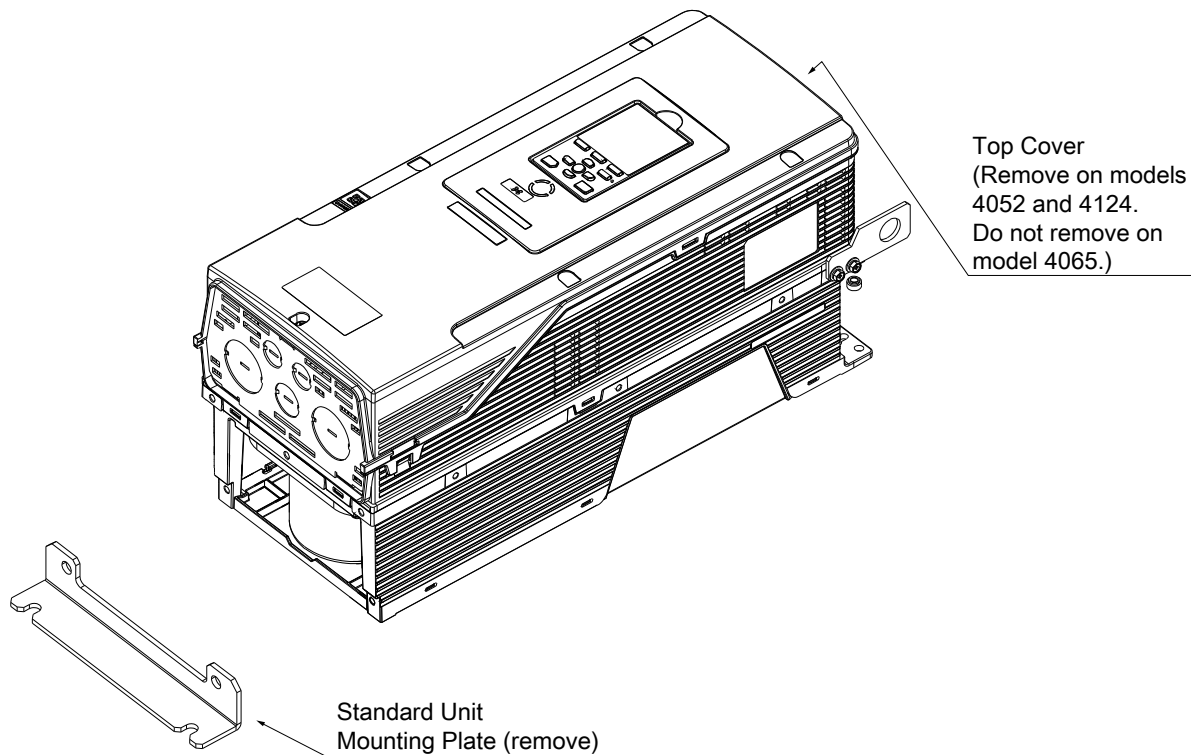


Figure 4.16 Remove Top Cover and Mounting Plate

2. Use the supplied hardware to attach Attachment A to the top of the drive.

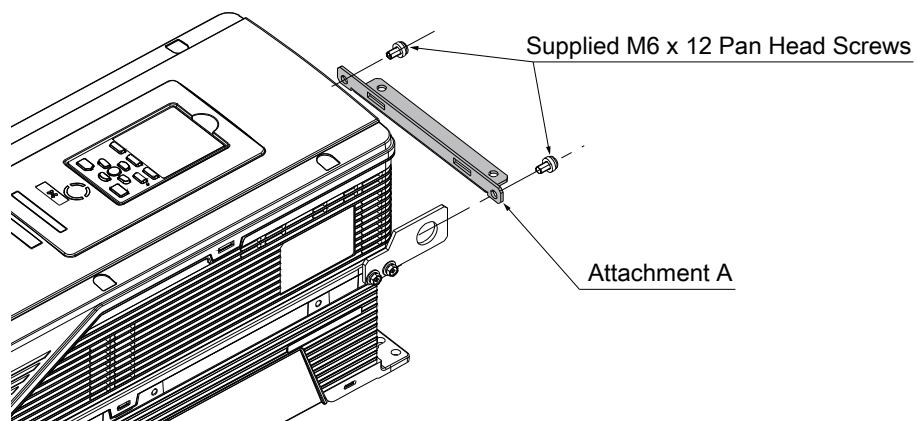


Figure 4.17 Attach Attachment A

3. Use the supplied hardware to attach Attachment B to the bottom of the drive.

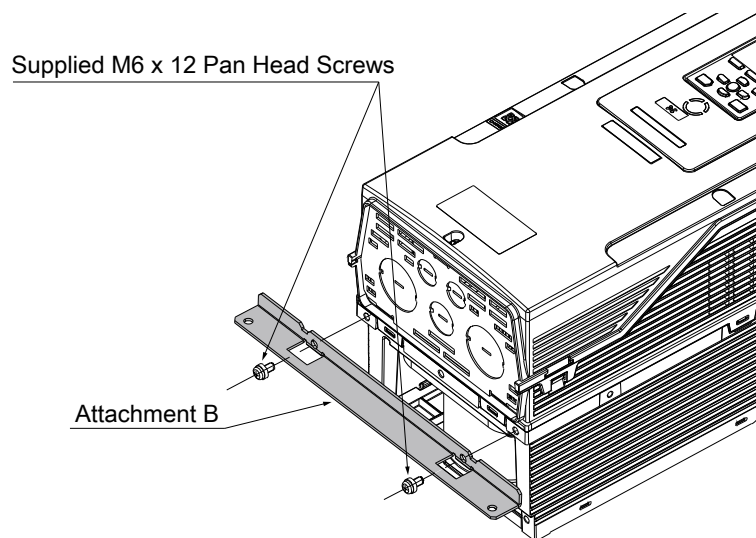


Figure 4.18 Attach Attachment B

4. Use the supplied hardware to attach Attachments C and D to the sides of the drive.

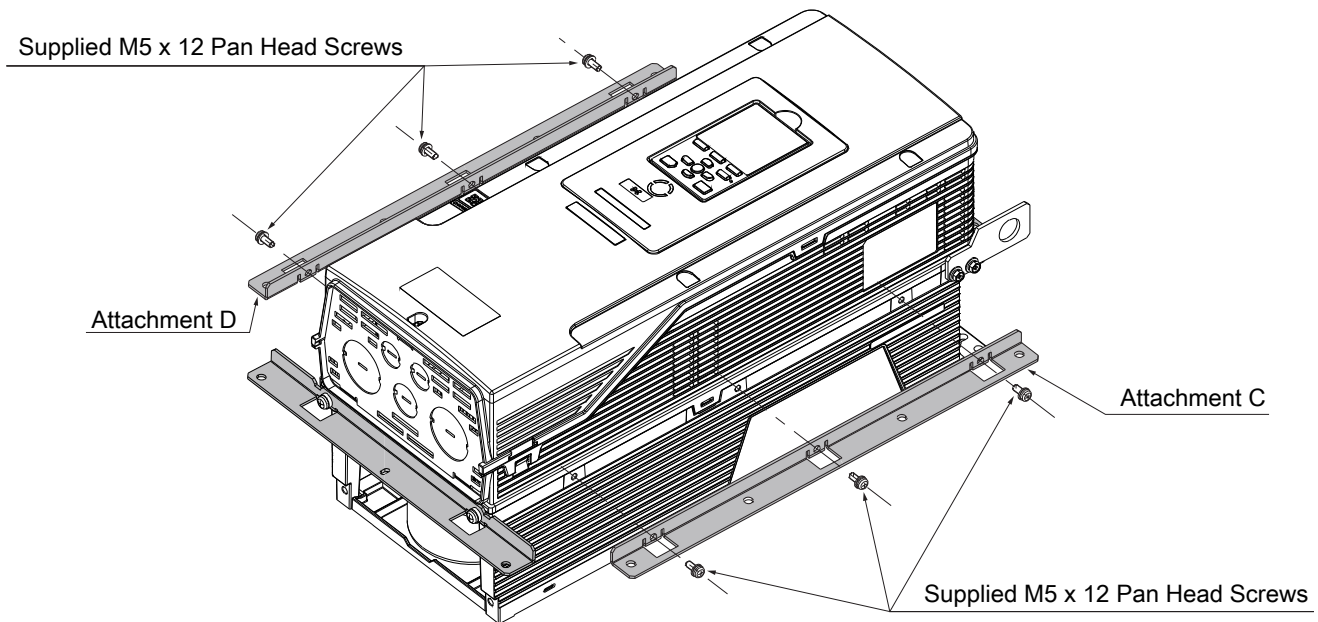


Figure 4.19 Attach Attachments C and D

5. Attach gaskets to Attachment E. Refer to [Gasket Installation on page 7](#) for gasket installation. Use the supplied hardware to attach Attachment E to Attachments C and D. Remove the cable entry plate if necessary

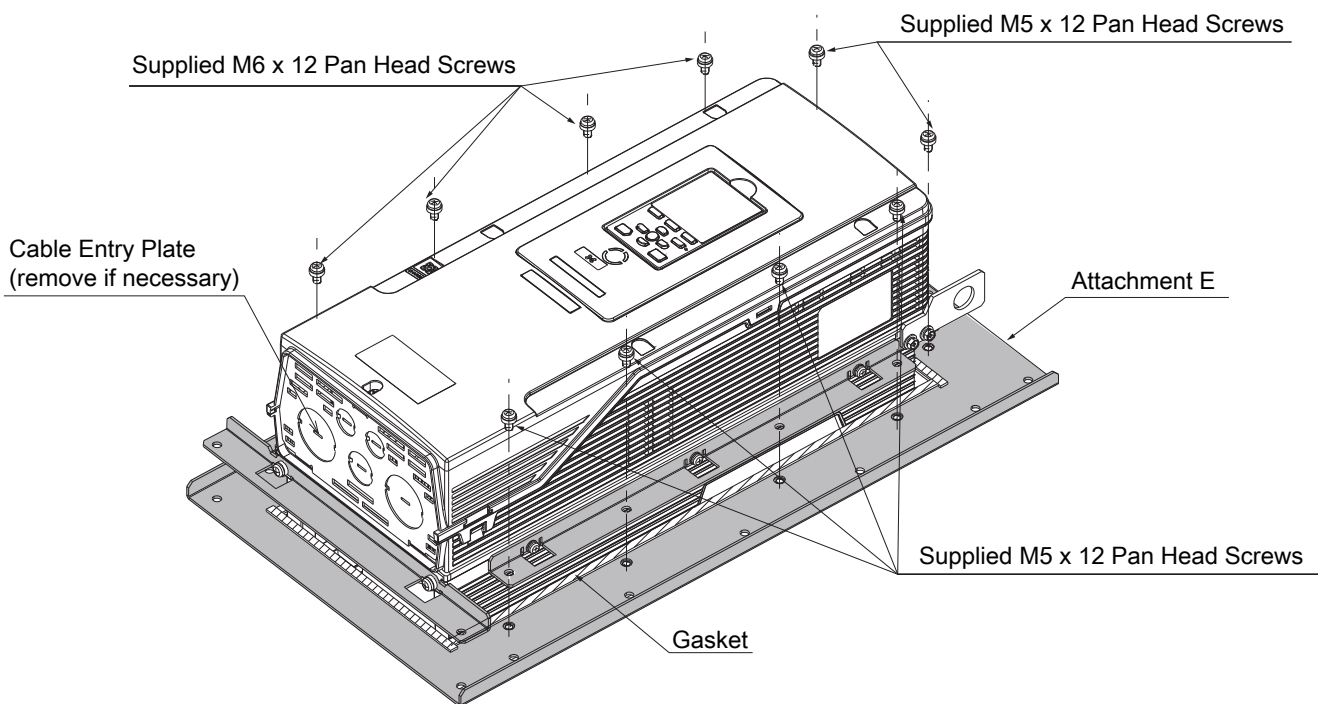


Figure 4.20 Attach Attachment E and Remove Cable Entry Plate

6. Attach gaskets to the customer panel and install the drive with attachments to the panel. Refer to [Gasket Installation on page 7](#) for gasket installation.

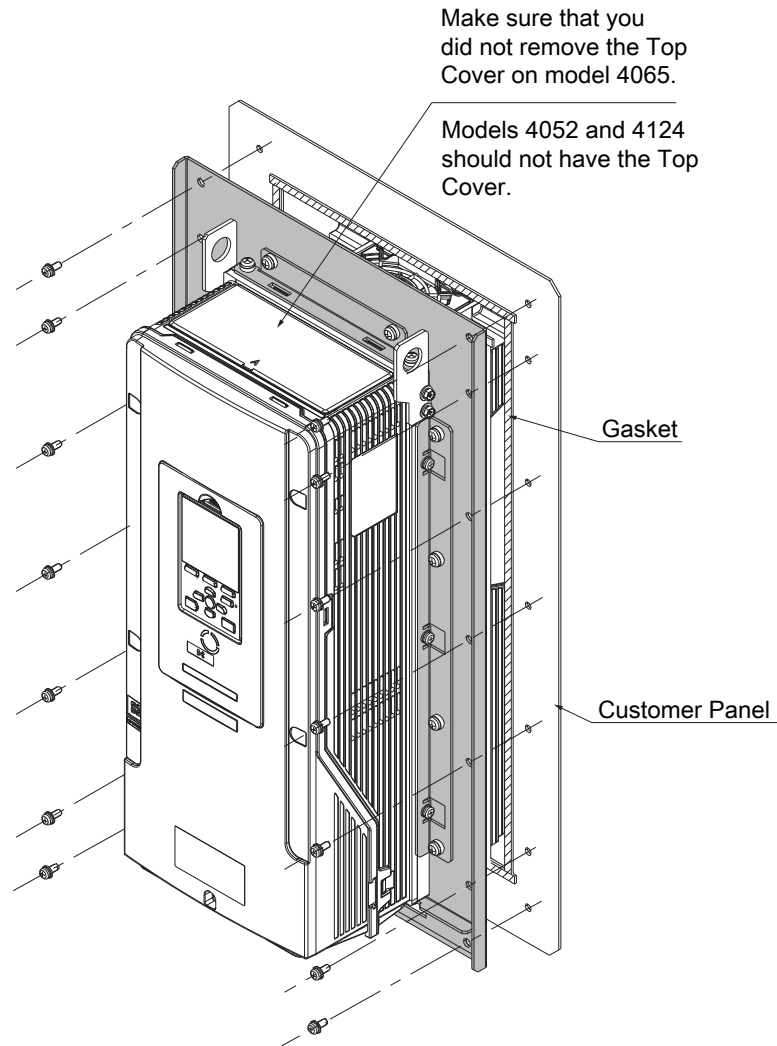


Figure 4.21 Attach Gaskets and Install on Customer Panel

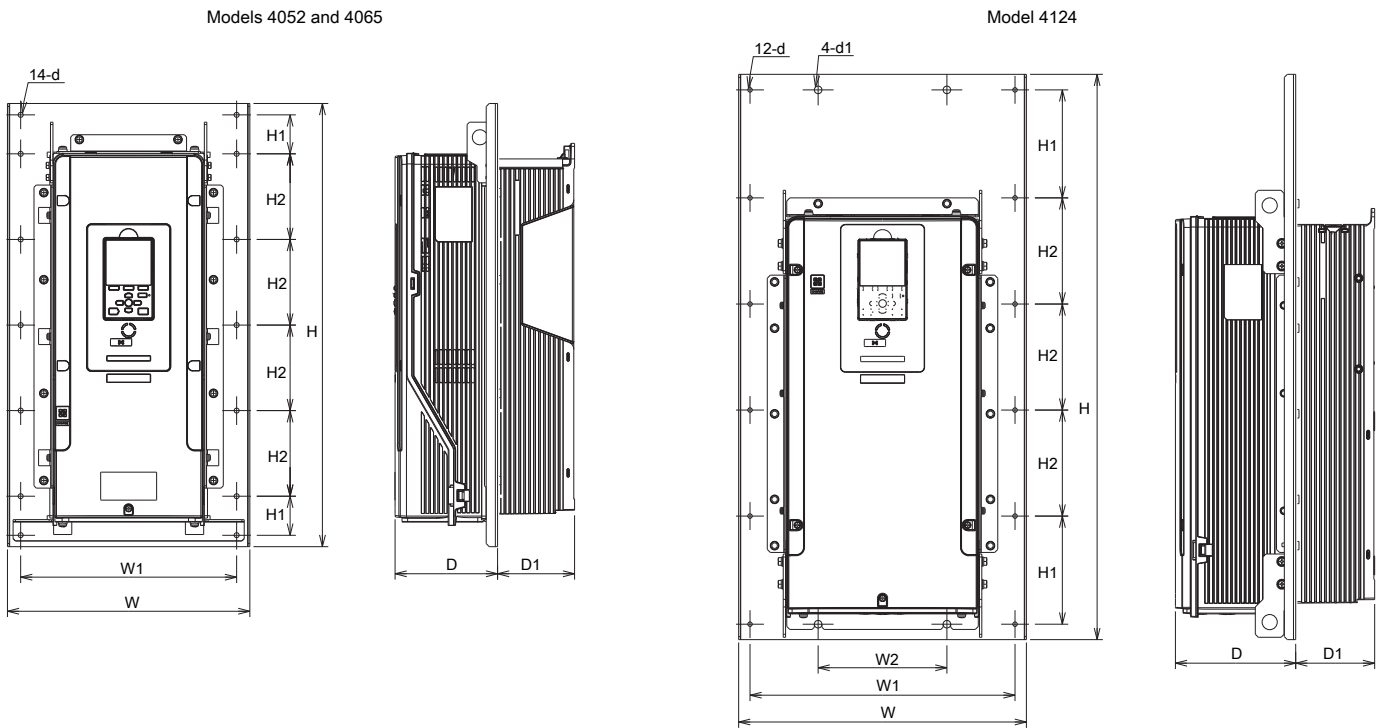


Figure 4.22 Exterior and Mounting Dimensions after Installation

HV600 Catalog Code HV60x	Dimensions mm (in)									
	W	H	D	W1	W2	H1	H2	D1	d	d1
4052 4065	320 (11.2)	585 (23)	135.3 (5.3)	285 (11.2)	-	51.5 (2)	113 (4.4)	101.7 (4)	M6	-
4124	380 (15)	746.4 (29.4)	154.2 (6.1)	350 (13.8)	170 (6.7)	142.7 (5.6)	140 (5.5)	104.2 (4.2)	M5	M8

◆ Procedure for HV600 Models 2143, 2169, and 4156

Drive		Option Product Code	Part Code						Supplied Hardware
Z1000 CIMR-Zx	HV600 Catalog Code HV60x		Attachment A	Attachment B	Attachment C	Attachment D	Attachment E	Gasket UGK00662-xxx	
2x0143	2143	ZPSD-600-RP-EH12-FR6	USP05564-021	USP05565-021	USP05539-021	USP05539-021	USP05567-021	005_1	M4 × 10 pan head screw (10)
2x0169	2169							005_2	
4x0156	4156							008_1 008_2	

1. Remove the bolts and washers from the top and bottom of the drive. Also remove the Top Cover.

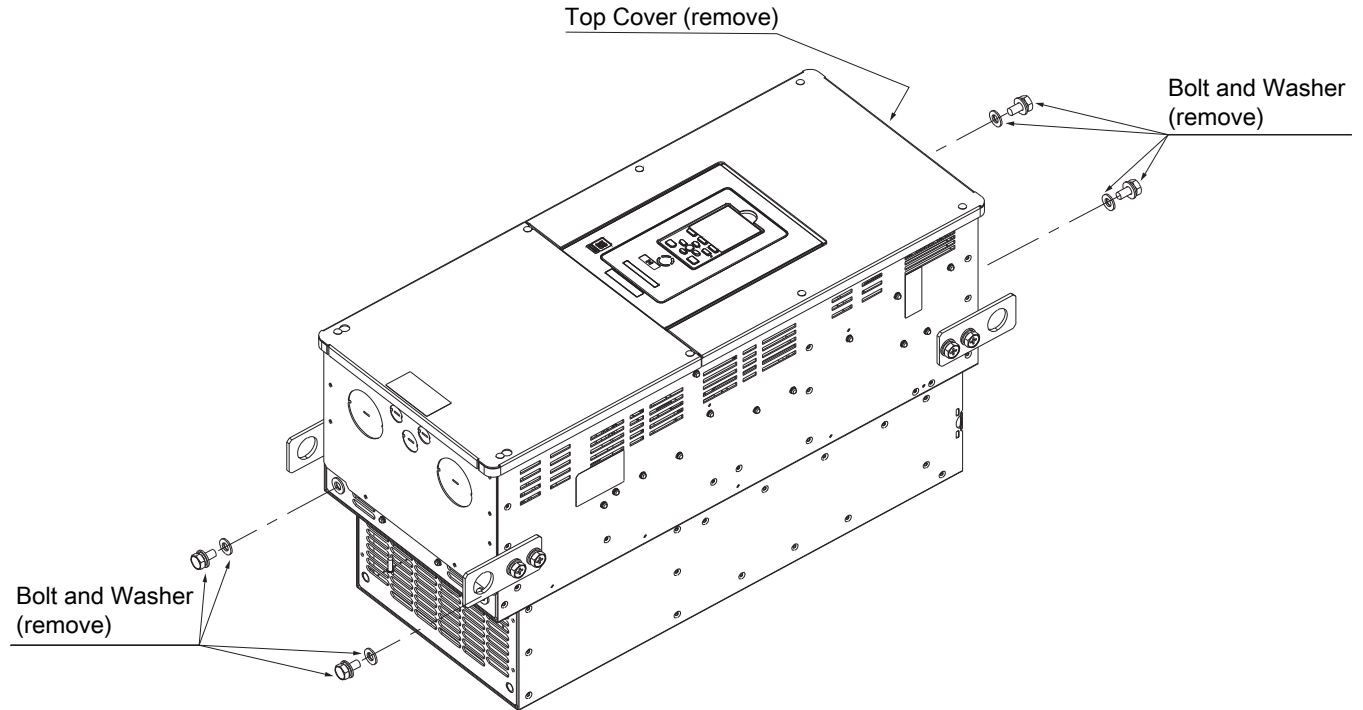


Figure 4.23 Remove Bolts, Washers, and Top Cover

2. Remove the Standard Unit Mounting Plates from the top and bottom of the drive. Reuse the screws and attach Attachment A to the top of the drive and attach Attachment B to the bottom of the drive.

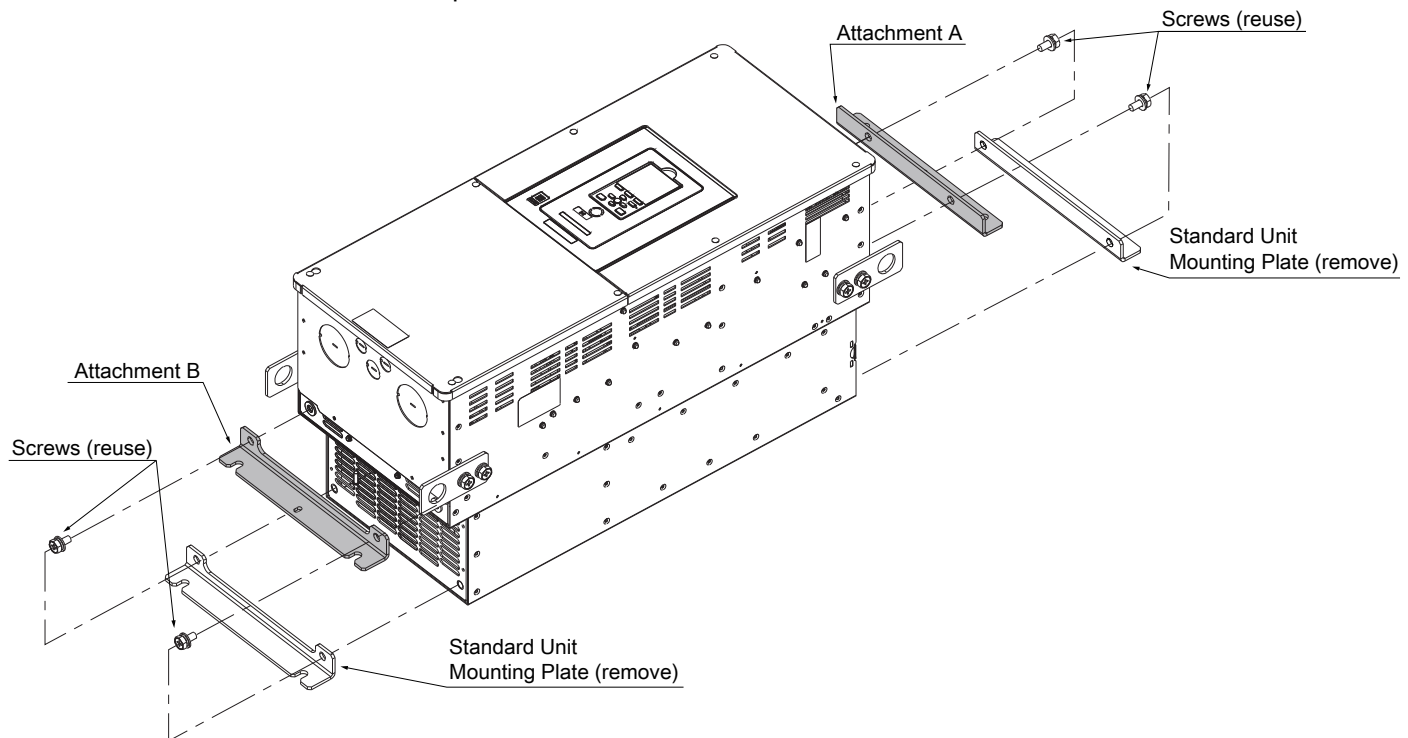


Figure 4.24 Remove Mounting Plates and Attach Attachments A and B

3. Use the supplied hardware to attach Attachments C and D to the sides of the drive.

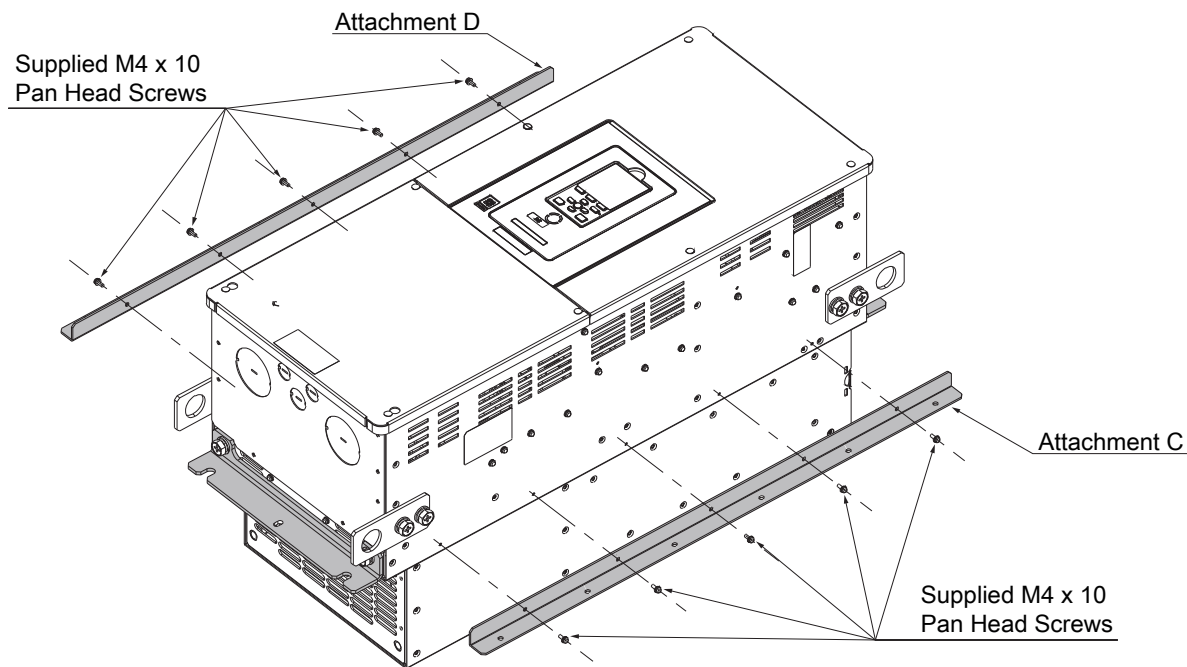


Figure 4.25 Attach Attachments C and D

4. Attach gaskets to Attachment E. Refer to [Gasket Installation on page 7](#) for gasket installation. Use the supplied hardware to attach Attachment E to Attachments C and D. Remove the cable entry plate if necessary.

Note:

Make sure that you position Attachment E correctly. The square hole is on the bottom side of Attachment E.

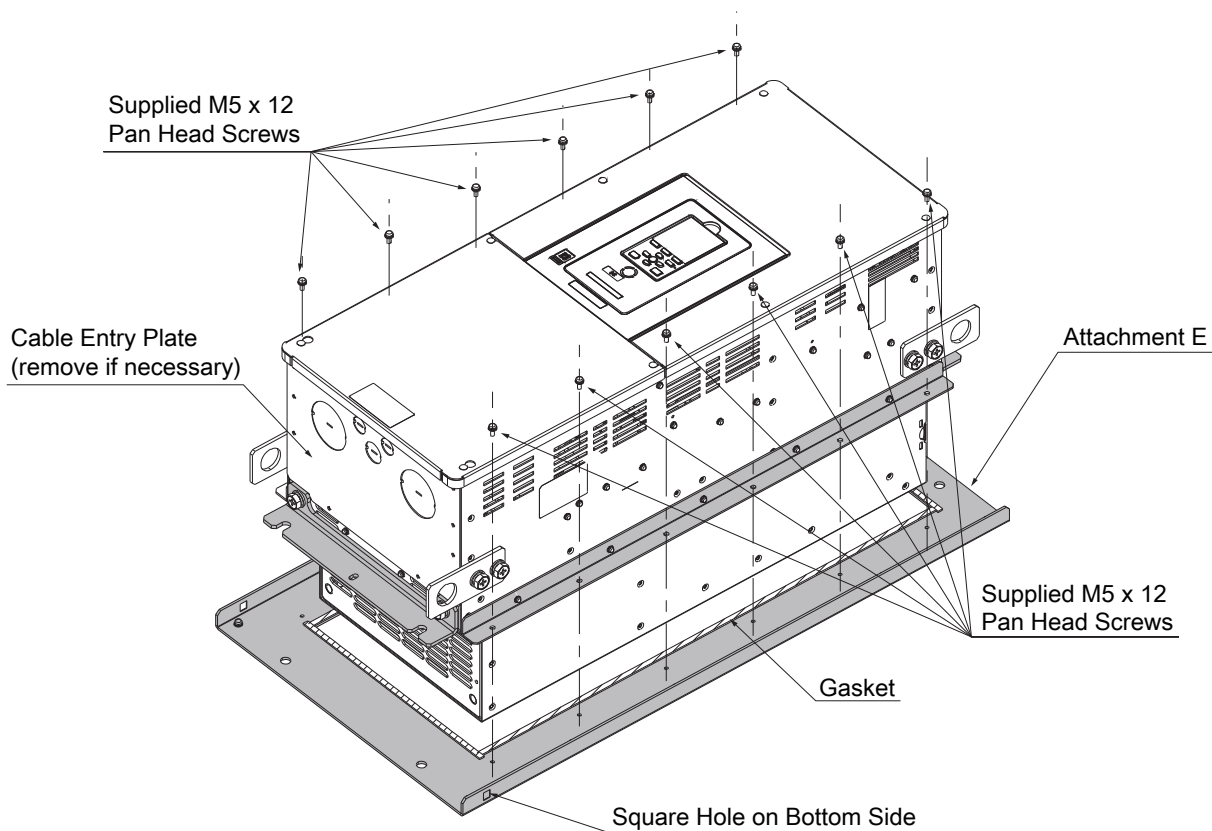


Figure 4.26 Attach Attachment E

5. Attach gaskets to the customer panel and install the drive with attachments to the panel. Refer to [Gasket Installation on page 7](#) for gasket installation.

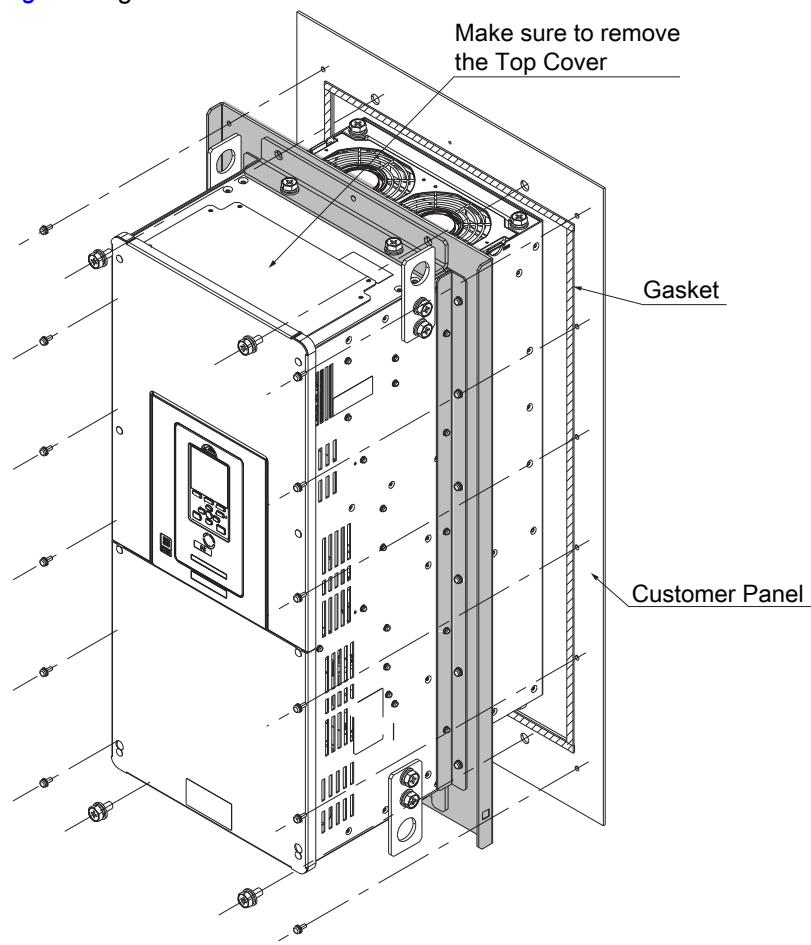


Figure 4.27 Attach Gaskets and Install on Customer Panel

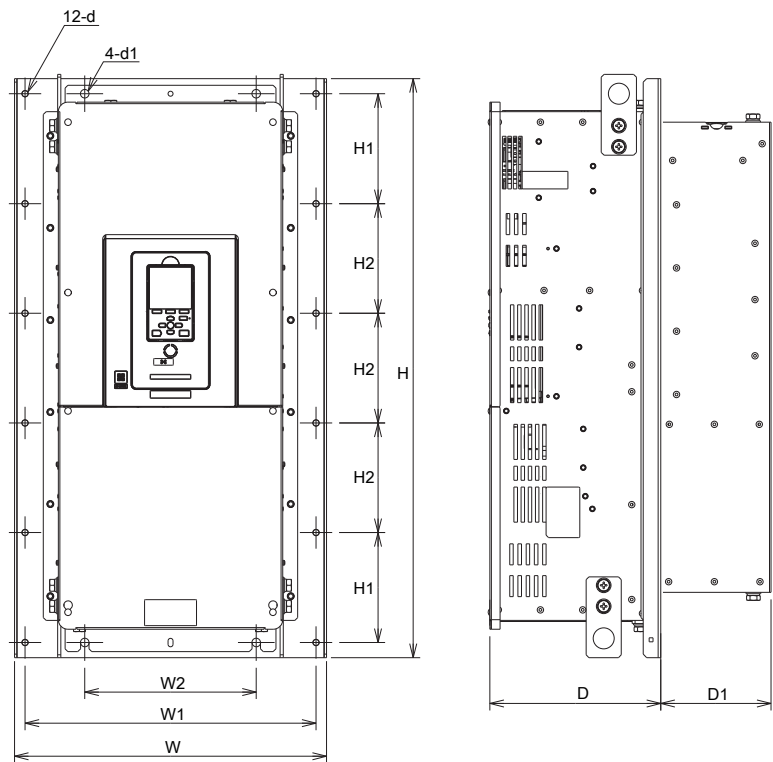


Figure 4.28 Exterior and Mounting Dimensions after Installation

HV600 Catalog Code HV60x		Dimensions mm (in)									
240 V	480 V	W	H	D	W1	W2	H1	H2	D1	d	d1
2143 2169	4156	444 (17.5)	824 (32.4)	243.2 (9.6)	414 (16.3)	244 (9.6)	156.5 (6.2)	156 (6.1)	156.8 (6.2)	M5	M10

◆ Procedure for HV600 Models 2211, 2273, 4180, 4240, and 4302

Drive		Option Product Code	Part Code					Supplied Hardware
Z1000 CIMR-Zx	HV600 Catalog Code HV60x		Attachment B	Attachment C	Attachment D	Attachment E	Gasket UGK00662-xxx	
2x0211 2x0273	2211 2273	ZPSD-600-RP-EH12-FR9	USP05565-021	USP05575-021	USP05575-021	USP05570-021	006_1 006_2 008_1 008_2	M4 × 10 pan head screw (8) M5 × 12 pan head screw (10) M10 × 20 cross-recessed hexagonal head bolt (2)
4x0180 4x0240	4180 4240							
4x0302	4302	ZPSD-600-RP-EH12-FR10	USP05572-021	USP05576-021	USP05576-021	USP05574-021	007_1 007_2 009_1 009_2	M5 × 12 pan head screw (18) M12 × 30 cross-recessed hexagonal bolt (2)

1. Remove the Standard Unit Mounting Plate from the top of the drive. Rotate the Standard Unit Mounting Plate and reuse the screws to attach it to the top of the drive in the new position.

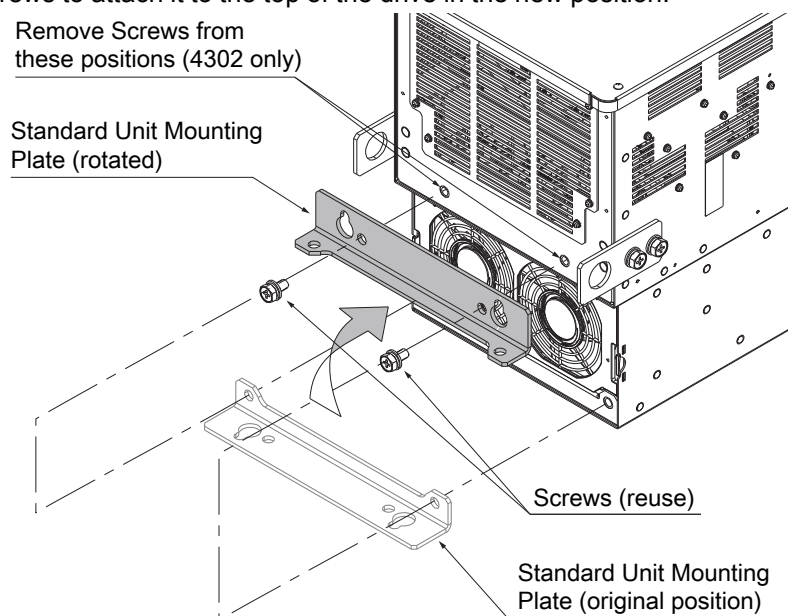


Figure 4.29 Remove Top Mounting Plate and Reattach in New Position

2. Remove the Standard Unit Mounting Plate from the bottom of the drive. Reuse the screws and attach Attachment B to the bottom of the drive.

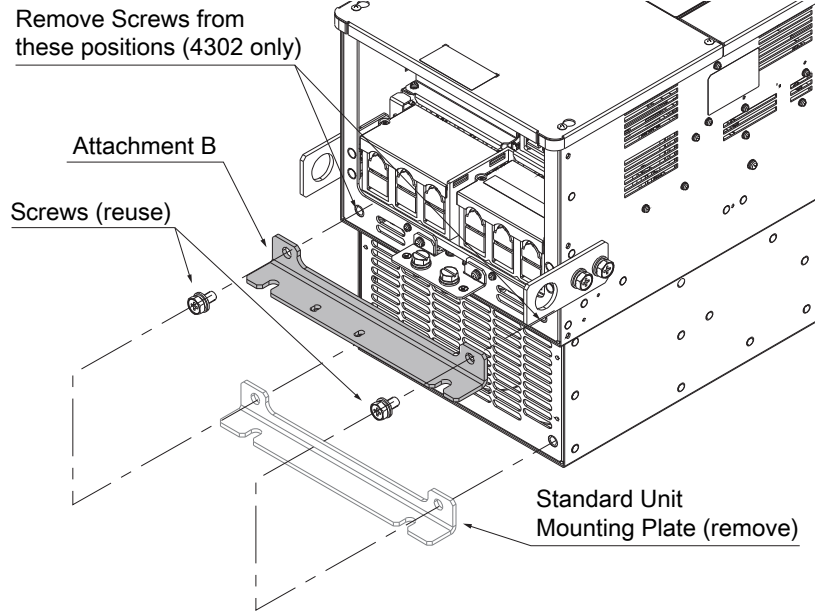


Figure 4.30 Remove Bottom Mounting Plate and Attach Attachment B

3. Attach Attachments C and D to the sides of the drive.

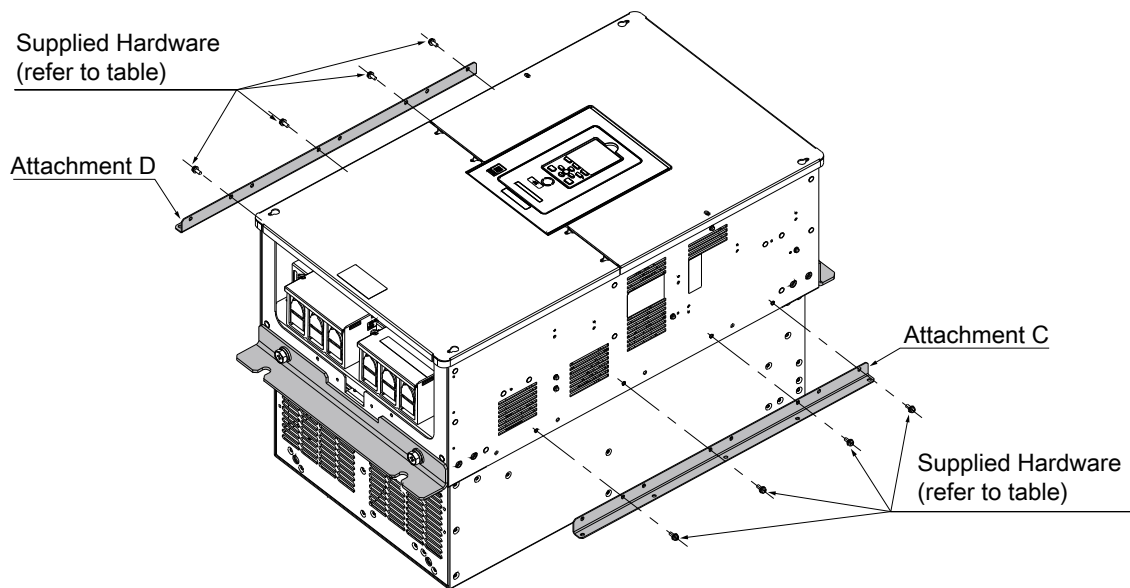


Figure 4.31 Attach Attachments C and D

4. Attach gaskets to Attachment E. Refer to [Gasket Installation on page 7](#) for gasket installation. Use the supplied hardware to attach Attachment E to the Standard Unit Mounting Plate and Attachments C and D.

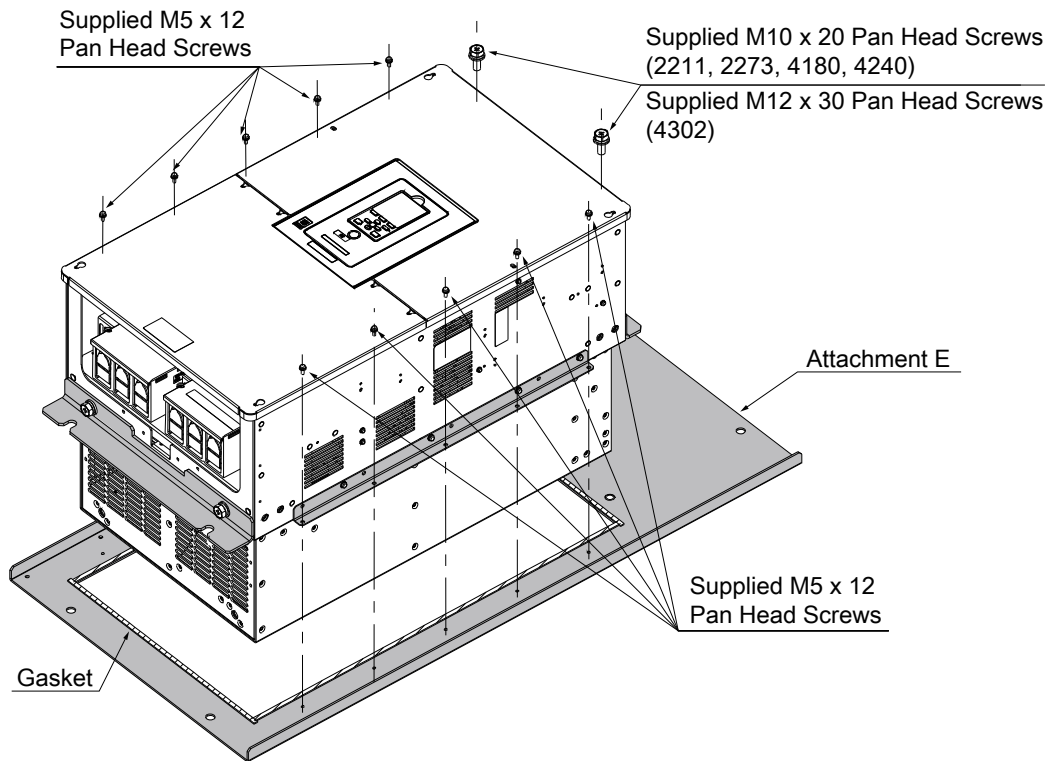


Figure 4.32 Attach Attachment E

5. Attach gaskets to the customer panel and install the drive with attachments to the panel. Refer to [Gasket Installation on page 7](#) for gasket installation.

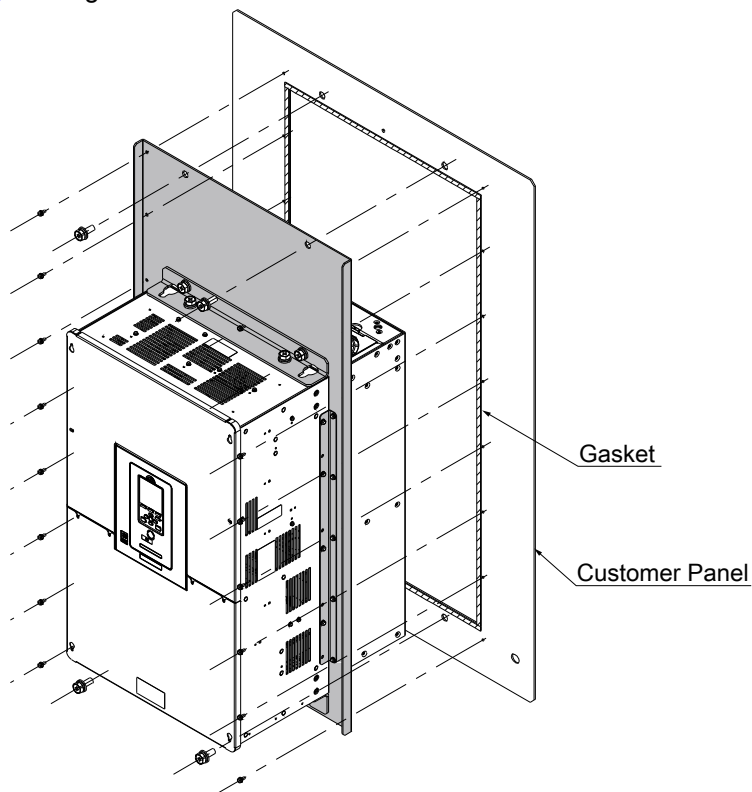


Figure 4.33 Attach Gaskets and Install on Customer Panel

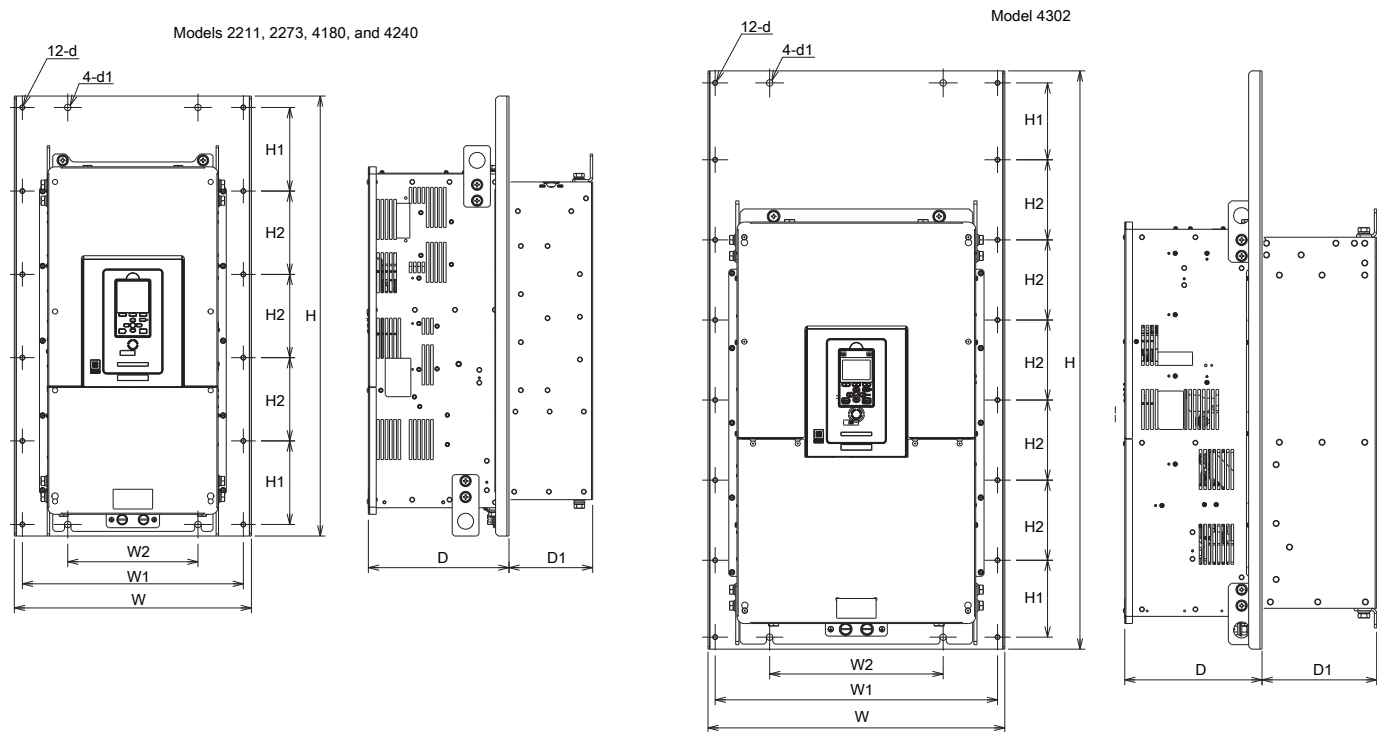


Figure 4.34 Exterior and Mounting Dimensions after Installation

HV600 Catalog Code HV60x		Dimensions mm (in)									
240 V	480 V	W	H	D	W1	W2	H1	H2	D1	d	d1
2211 2273	4180 4240	444 (17.5)	824 (32.4)	263.2 (10.4)	414 (16.3)	244 (9.6)	156.5 (6.2)	156 (6.1)	156.8 (6.2)	M5	M10
-	4302	556 (21.9)	1083 (42.6)	257.2 (10.1)	529 (20.8)	325 (12.8)	144 (5.7)	150 (5.9)	214.8 (8.5)	M5	M12

Revision History

Date of Publication	Revision Number	Section	Revised Content
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Z1000 to HV600 REPLACEMENT ATTACHMENT OPTION INSTALLATION MANUAL

YASKAWA AMERICA, INC.

2121, Norman Drive South, Waukegan, IL
60085, U.S.A.
+1-800-YASKAWA (927-5292)
www.yaskawa.com

DRIVE CENTER (INVERTER PLANT)

2-13-1, Nishimiyaichi, Yukuhashi, Fukuoka,
824-8511, Japan
Phone: +81-930-25-2548
www.yaskawa.co.jp

YASKAWA EUROPE GmbH

Hauptstraße 185, 65760 Eschborn, Germany
Phone: +49-6196-569-300
E-mail: support@yaskawa.eu.com
www.yaskawa.eu.com

YASKAWA ELÉTRICO DO BRASIL LTDA.

777, Avenida Piraporinha, Diadema, São
Paulo, 09950-000, Brasil
Phone: +55-11-3585-1100
www.yaskawa.com.br

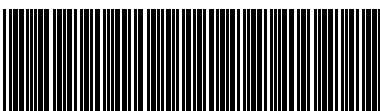
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