

SERVO-DRIVE for drawers



# SERVO-DRIVE for drawers

Opening feature for TANDEM and TANDEMBOX

More comfort for your customers



# Easy opening silent and effortless closing

SERVO-DRIVE is a low voltage electronic opening feature for TANDEM and TANDEMBOX drawers. By combining this feature with the silent and effortless closing action of BLUMOTION, we have taken perfecting motion to a new level. Customers will be amazed by the quality and ease of use.



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# Using the SERVO-DRIVE catalog

## Step 1

### Determine application

Based on either TANDEM or TANDEMBOX, choose the application that best fits your design. Then proceed to the corresponding catalog page for specific information.

### TANDEM plus BLUMOTION



### TANDEMBOX



## Step 2

### Select parts

Choose the parts needed from the first two pages of each application

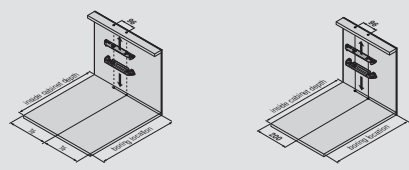


## Step 3

### Prepare cabinet

Refer to the boring location requirements chart to obtain the minimum inside cabinet depth and boring locations.

Using the location from the chart, pre-bore holes and install adapters or bracket.

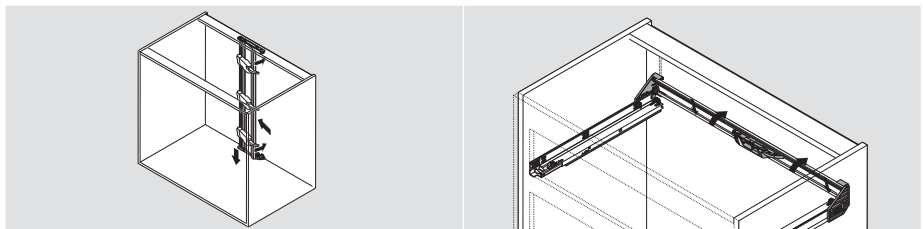


	boring location requirements							
profile length	229 (9")	305 (12")	381 (15")	457 (18")	533 (21")	610 (24")	686 (27")	762 (30")
boring location	253 (9-15/16")	329 (12-15/16")	405 (15-15/16")	481 (18-15/16")	557 (21-15/16")	634 (24-15/16")	710 (27-15/16")	786 (30-15/16")
minimum inside cabinet depth	270 (10-5/8")	346 (13-5/8")	422 (16-5/8")	498 (19-5/8")	574 (22-5/8")	651 (25-5/8")	727 (28-5/8")	803 (31-5/8")

## Step 4

### Install profile

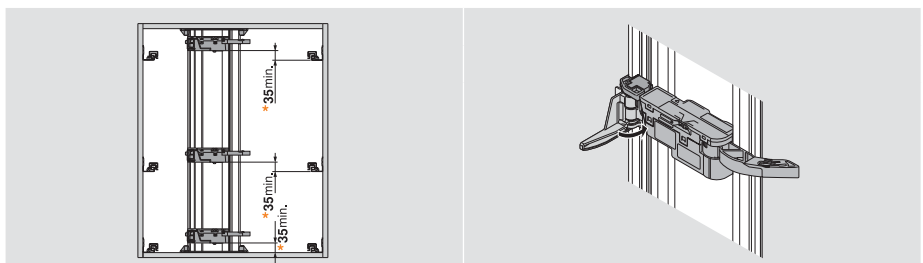
Install profile into adapters or bracket



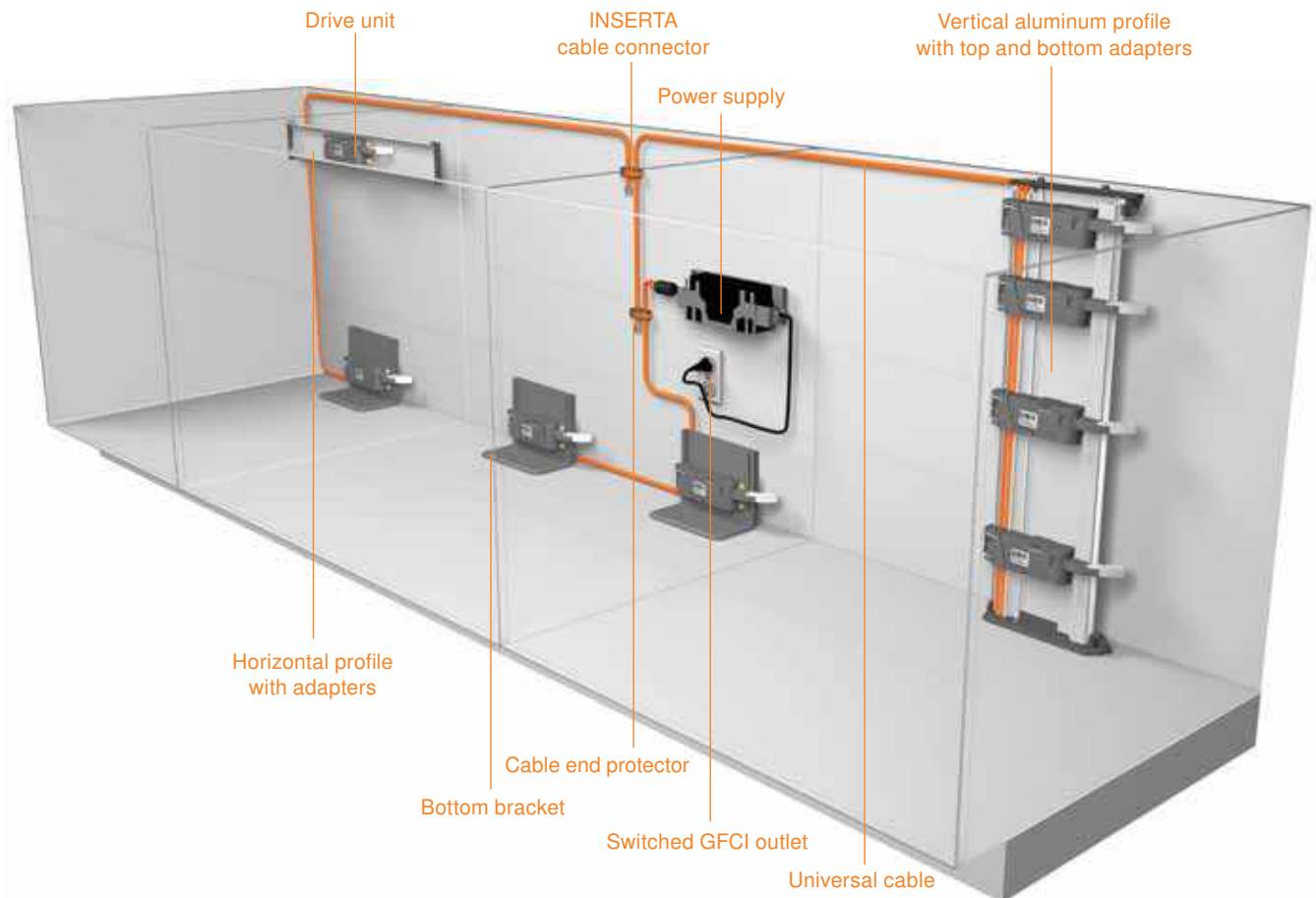
## Step 5

### Attach drive units

Attach the necessary number of drive units to the profile or bracket and ensure the arm contacts the center of the drawer back



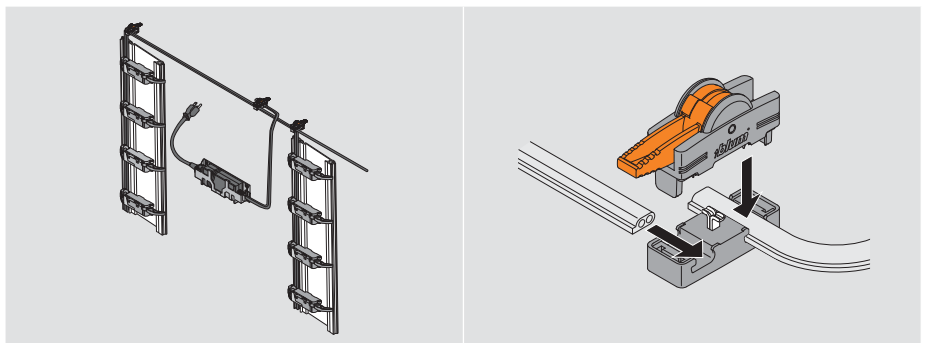




## Step 6

### Wire the cabinet

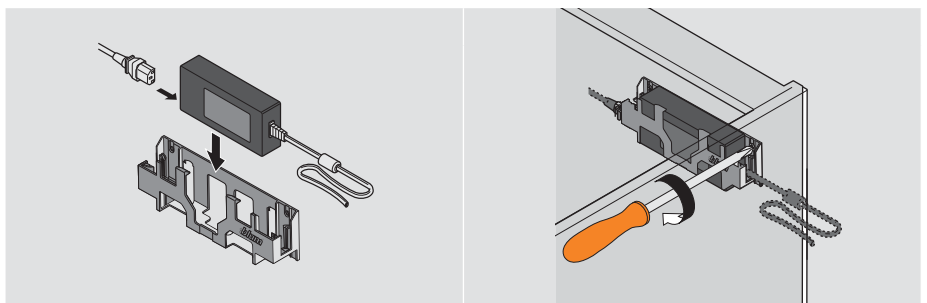
Connect necessary cable with INSERTA cable connectors and cap off with cable end protectors



## Step 7

### Connect power supply

Attach wall mount bracket and insert power supply. Plug three-prong power cord into switched GFCI outlet.



# SERVO-DRIVE program overview

## Vertical aluminum profile



TANDEM  
TANDEM inset

page	8
page	12



TANDEMBOX

page	40
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## Horizontal aluminum profile



TANDEM  
TANDEM inset

page	16
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TANDEMBOX

page	44
------	----

## Top bracket



TANDEM  
TANDEM inset

page	24
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TANDEMBOX

page	48
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## Bottom bracket



TANDEM

TANDEM inset

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TANDEMBOX

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## Waste/recycle set



TANDEM Waste/recycle set

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TANDEMBOX Waste/recycle set

page 56

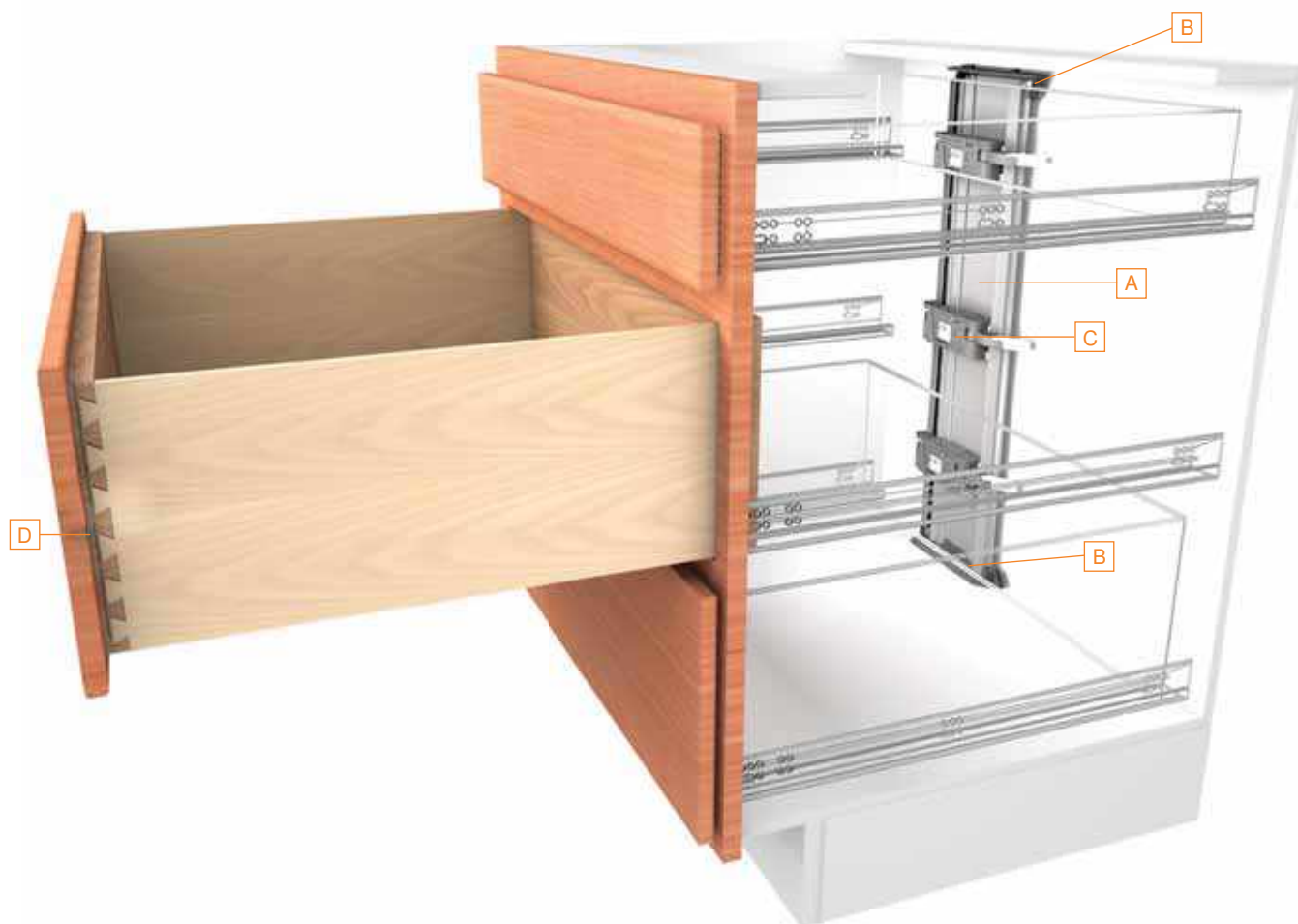
## Power supply set



Power supply set

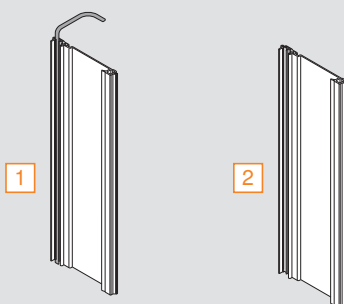
page 57

# TANDEM plus BLUMOTION



## Vertical aluminum profile

**A** Profile can be cut to size



\*cable length 800 (31-1/2")

Part no.

**1** Profile with cable, length 720 (28-3/8")\*

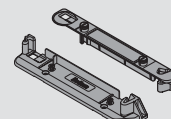
**Z10T720AB**

**2** Profile without cable, length 1170 (46")

**Z10T1170A**

## Top and bottom adapter set

**B** For use with horizontal stretcher rail



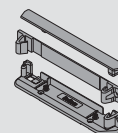
Part no.

Top and bottom adapter set

**Z10D01E0.01**

## Back and bottom adapter set

**B** For use with back stretcher rail



Part no.

Back and bottom adapter set with cover cap

**Z10D01EA.01**

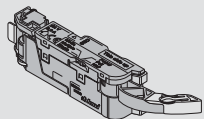


# Vertical aluminum profile



## Drive unit

C



Part no.

Installation

pg 63

Drive unit

**Z10A3000.03**

## Blum distance bumper

D

Provides 3 (1/8") gap

1



2



Part no.

1 Ø5 mm bumper

**993.0531**

2 Screw-on bumper

**993.1220**

Specifications

pg 60

## Power supply set

Set includes:

- 19 ft universal cable
- 24 watt power supply
- Wall mount bracket
- Three-prong power cord
- Cable end protector (qty 3)
- INSERTA cable connector
- Cable clips (qty 10)
- Technical information

Part no.

Details

pg 57

Power supply set

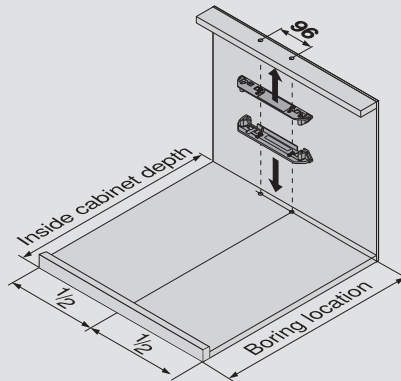
**Z10NE03UG10**

# Vertical aluminum profile top and bottom adapter

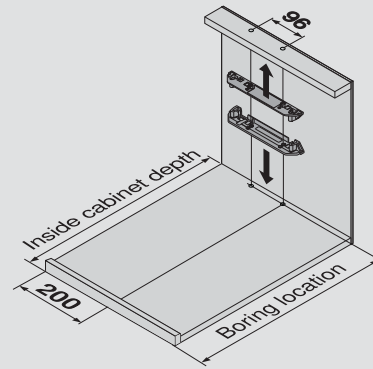
## Specifications

### Space requirements

For opening widths **340** (13-3/8") and wider



For opening widths **275 to 339** (10-13/16" – 13-3/8")



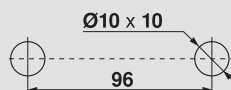
boring location requirements

drawer length	<b>229</b> (9")	<b>305</b> (12")	<b>381</b> (15")	<b>457</b> (18")	<b>533</b> (21")	<b>610</b> (24")	<b>686</b> (27")	<b>762</b> (30")
boring location	<b>253</b> (9-15/16")	<b>329</b> (12-15/16")	<b>405</b> (15-15/16")	<b>481</b> (18-15/16")	<b>557</b> (21-15/16")	<b>634</b> (24-15/16")	<b>710</b> (27-15/16")	<b>786</b> (30-15/16")
min. inside cabinet depth	<b>270</b> (10-5/8")	<b>346</b> (13-5/8")	<b>422</b> (16-5/8")	<b>498</b> (19-5/8")	<b>574</b> (22-5/8")	<b>651</b> (25-5/8")	<b>727</b> (28-5/8")	<b>803</b> (31-5/8")

**NOTE:** 41 (1-5/8") is required between drawer back and back panel

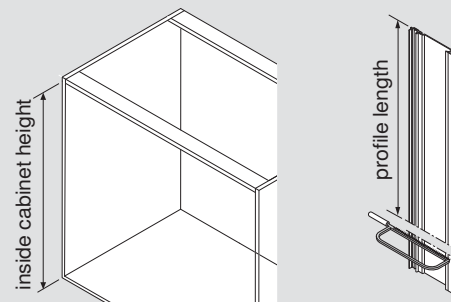
### Boring specifications

Top and bottom boring pattern



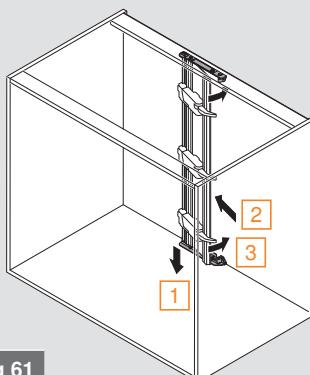
### Calculating vertical profile length

Profile length = inside cabinet height minus **19** (3/4")



### Installing vertical aluminum profile

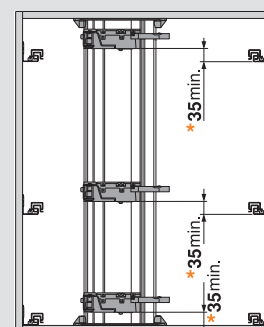
- 1 Set profile onto bottom adapter
- 2 Push profile toward left side while engaging top
- 3 Push back on right side and snap into place



Wiring options **pg 61**

### Positioning the drive unit

Lever arm should contact center of drawer back



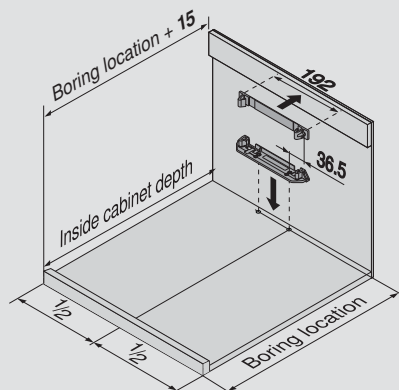
\* If opening width is less than **420** (16-9/16"), drive unit should be mounted **50** (1-15/16") minimum from bottom of runner

# Vertical aluminum profile back and bottom adapter

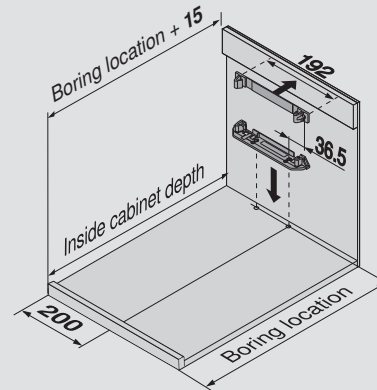
## Specifications

### Space requirements

For opening widths **340** (13-3/8") and wider



For opening widths **275 to 339** (10-13/16" – 13-3/8")



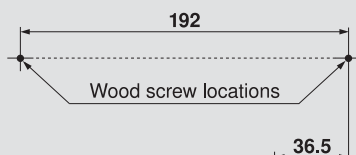
boring location requirements

drawer length	<b>229</b> (9")	<b>305</b> (12")	<b>381</b> (15")	<b>457</b> (18")	<b>533</b> (21")	<b>610</b> (24")	<b>686</b> (27")	<b>762</b> (30")
boring location	<b>253</b> (9-15/16")	<b>329</b> (12-15/16")	<b>405</b> (15-15/16")	<b>481</b> (18-15/16")	<b>557</b> (21-15/16")	<b>634</b> (24-15/16")	<b>710</b> (27-15/16")	<b>786</b> (30-15/16")
min. inside cabinet depth	<b>270</b> (10-5/8")	<b>346</b> (13-5/8")	<b>422</b> (16-5/8")	<b>498</b> (19-5/8")	<b>574</b> (22-5/8")	<b>651</b> (25-5/8")	<b>727</b> (28-5/8")	<b>803</b> (31-5/8")

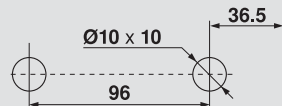
**NOTE:** 41 (1-5/8") is required between drawer back and back panel

### Boring specifications

#### Back screw positioning

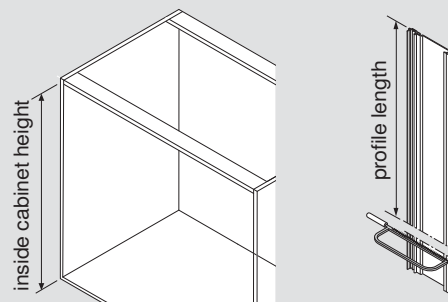


#### Bottom boring pattern



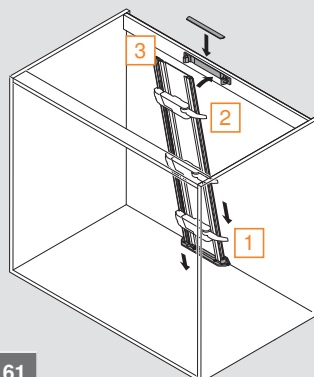
### Determining vertical profile length

Profile length is dependent upon back adapter location.



### Installing vertical aluminum profile

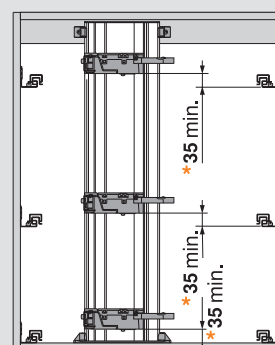
- 1 Set profile onto bottom adapter
- 2 Push profile toward back while engaging adapter
- 3 Snap cover cap onto top of profile



Wiring options pg 61

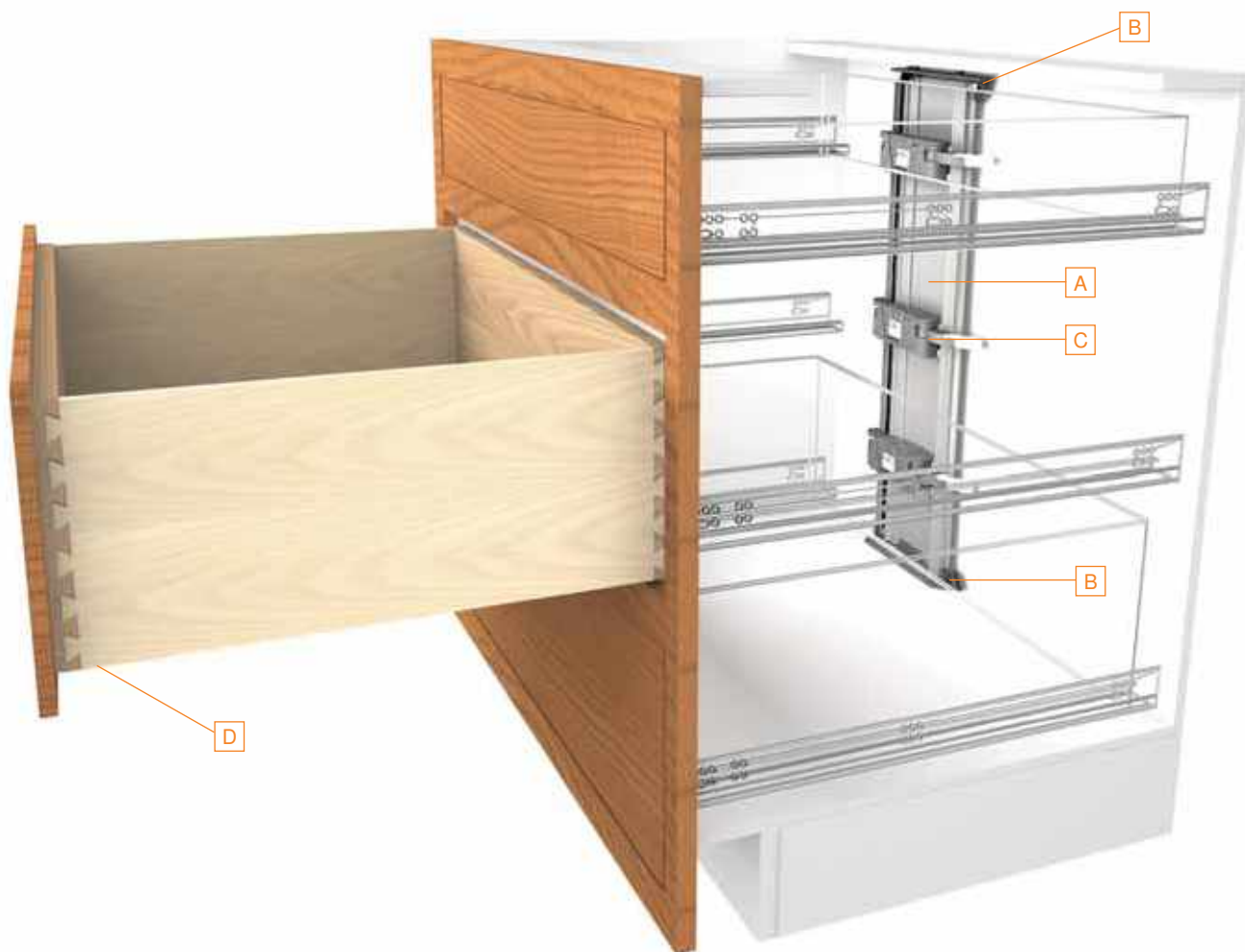
### Positioning the drive unit

Lever arm should contact center of drawer back



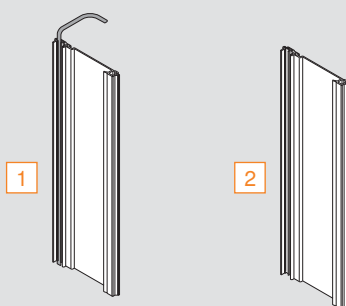
\* If opening width is less than **420** (16-9/16"), drive unit should be mounted **50** (1-15/16") minimum from bottom of runner

# TANDEM plus BLUMOTION



## Vertical aluminum profile

**A** Profile can be cut to size



\*cable length 800 (31-1/2")

Part no.

**1** Profile with cable, length 720 (28-3/8")\*

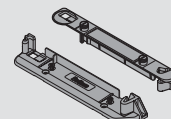
**Z10T720AB**

**2** Profile without cable, length 1170 (46")

**Z10T1170A**

## Top and bottom adapter set

**B** For use with horizontal stretcher rail



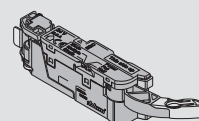
Part no.

Top and bottom adapter set

**Z10D01E0.01**

## Drive unit

**C**



Part no.

Installation

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Drive unit

**Z10A3000.03**

# Inset vertical aluminum profile



## SERVO-DRIVE locking device with integrated bumper

**D** Provides 3 (1/8") gap



Part no.

SERVO-DRIVE locking device, left

**T51.1901.PS L**

SERVO-DRIVE locking device, right

**T51.1901.PS R**

## Power supply set

Set includes:

- 19 ft universal cable
- 24 watt power supply
- Wall mount bracket
- Three-prong power cord
- Cable end protector (qty 3)
- INSERTA cable connector
- Cable clips (qty 10)
- Technical information

Part no.

Details

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Power supply set

**Z10NE03UG10**

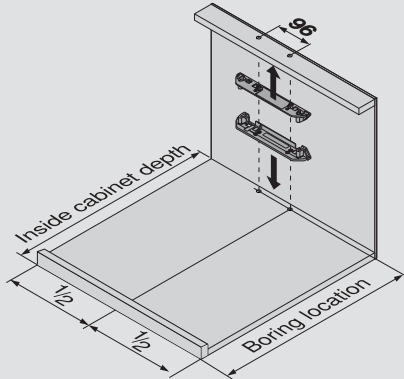


# TANDEM plus BLUMOTION

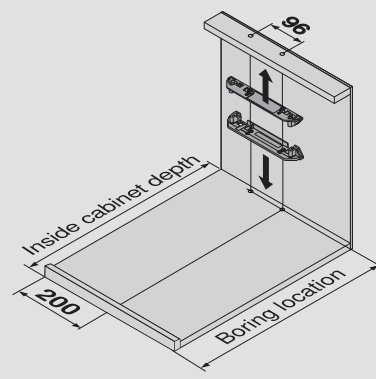
## Specifications

### Space requirements

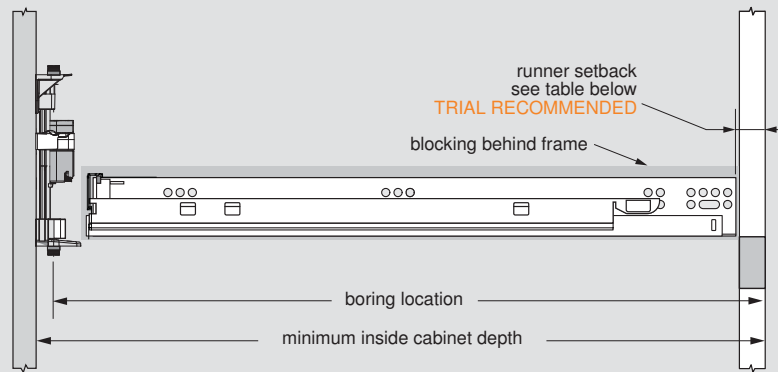
For opening widths **340** (13-3/8") and wider



For opening widths **275 to 339** (10-13/16" – 13-3/8")



### Boring specifications

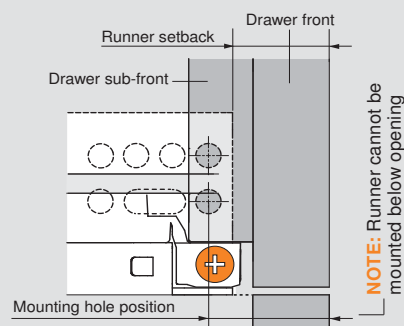


#### boring location requirements

boring location = drawer length + **21** (13/16") + runner setback

minimum inside cabinet depth = drawer length + **38** (1-1/2") + runner setback

### Mounting the TANDEM runner for inset application



563/569 H/I		runner setback			563/569 F/A		runner setback		
sub-front thickness	13 (1/2")	20 (25/32")	23 (29/32")	26 (1-1/32")	sub-front thickness	13 (1/2")	17 (21/32")	20 (25/32")	23 (29/32")
	16 (5/8")	23 (29/32")	26 (1-1/32")	29 (1-5/32")		16 (5/8")	20 (25/32")	23 (29/32")	26 (1-1/32")
	19 (3/4")	26 (1-1/32")	29 (1-5/32")	32 (1-1/4")		19 (3/4")	23 (29/32")	26 (1-1/32")	29 (1-5/32")
		drawer front thickness					drawer front thickness		
		16 (5/8")	19 (3/4")	22 (7/8")			16 (5/8")	19 (3/4")	22 (7/8")

- Setbacks in this table recess the face of the drawer front inside of the cabinet **1** (1/32")
- The depth adjustment can then be used to move the drawer front out to its desired position, **2.5** (3/32") out adjustment only

#### calculating runner setback

563/569 H/I. (sub-front thickness + drawer front thickness minus **9** (11/32") = runner setback)

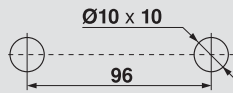
563/569 F/A (sub-front thickness + drawer front thickness minus **12** (15/32") = runner setback)

**NOTE:** For mounting hole position, add **7** (9/32") to runner setback

# Inset vertical aluminum profile

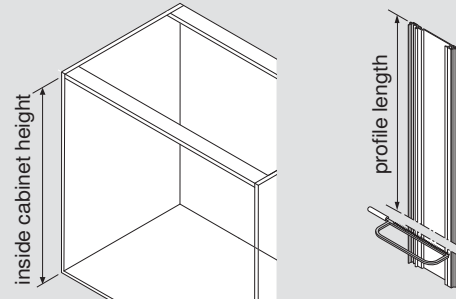
## Boring specifications

### Top and bottom boring pattern



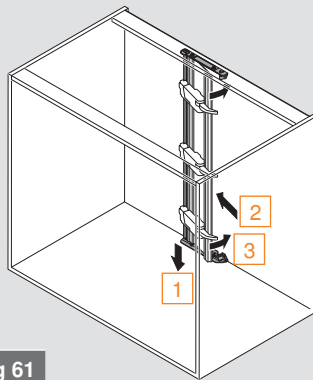
## Calculating vertical profile length

Profile length = inside cabinet height minus 19 (3/4")



## Installing vertical aluminum profile

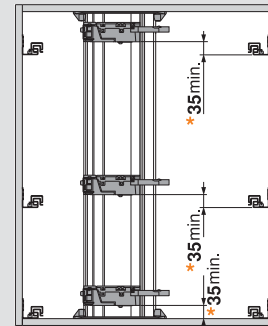
- 1 Set profile onto bottom adapter
- 2 Push profile toward left side while engaging top
- 3 Push back on right side and snap into place



Wiring options pg 61

## Positioning the drive unit

Lever arm should contact center of drawer back



\* If opening width is less than 420 (16-9/16"), drive unit should be mounted 50 (1-15/16") minimum from bottom of runner

## SERVO-DRIVE locking device with integrated bumper



- Captive right device and self-aligning left device
- Self-adjusting drawer length tolerance
- Minimum inside drawer width 170 (6-11/16")
- Height adjustment +3 (1/8")
- Side adjustment ±1.5 (1/16")
- Depth adjustment +2.5 (3/32"), preset at 0
- Minimum sub-front thickness 13 (1/2")
- Designed for 13 (1/2") drawer bottom recess
- Integrated 3 (1/8") distance bumper for inset or overlay SERVO-DRIVE applications

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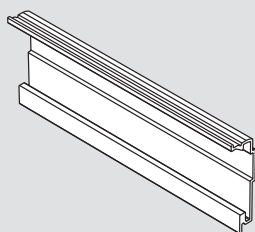
# TANDEM plus BLUMOTION



**NOTE:** For face frame application with rear attachment

## Horizontal aluminum profile

A



Part no.

Profile length **1143** (45"), cut to size

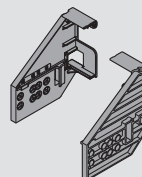
**Z10T1143B**

## Adapter set for horizontal profile, face frame

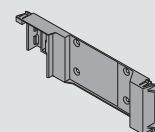
Set includes:

- TANDEM adapters (left and right)
- Profile adapter
- Installation screws 661.1150.HG (qty 4)
- Installation instructions

B



C



Part no.

Adapter set for horizontal profile, face frame

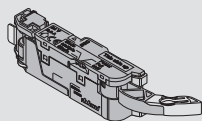
**Z10D5800.US**

# Horizontal aluminum profile



## Drive unit

**D**



Part no.

Installation

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Drive unit

**Z10A3000.03**

## Blum distance bumper

**E**

Provides 3 (1/8") gap

**1**



**2**



Part no.

**1** Ø5 mm bumper

**993.0531**

**2** Screw-on bumper

**993.1220**

Specifications

pg 60

## Power supply set

Set includes:

- 19 ft universal cable
- 24 watt power supply
- Wall mount bracket
- Three-prong power cord
- Cable end protector (qty 3)
- INSERTA cable connector
- Cable clips (qty 10)
- Technical information

Part no.

Details

pg 57

Power supply set

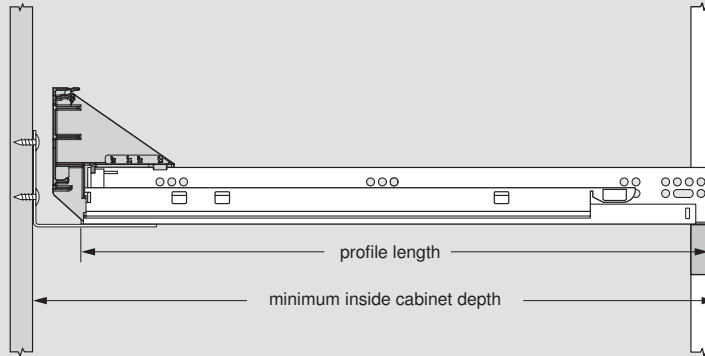
**Z10NE03UG10**

# TANDEM plus BLUMOTION

## Specifications

### Space requirements

Works with most TANDEM 563 lengths. Minimum opening width is **305 (12")**



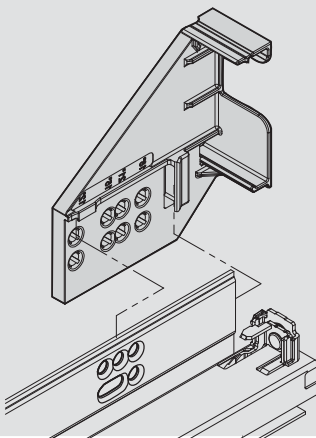
### cabinet depth requirements

drawer length	<b>305 (12")</b>	<b>381 (15")</b>	<b>457 (18")</b>	<b>533 (21")</b>	
minimum inside cabinet depth	<b>346 (13-5/8")</b>	<b>422 (16-5/8")</b>	<b>498 (19-5/8")</b>	<b>574 (22-5/8")</b>	

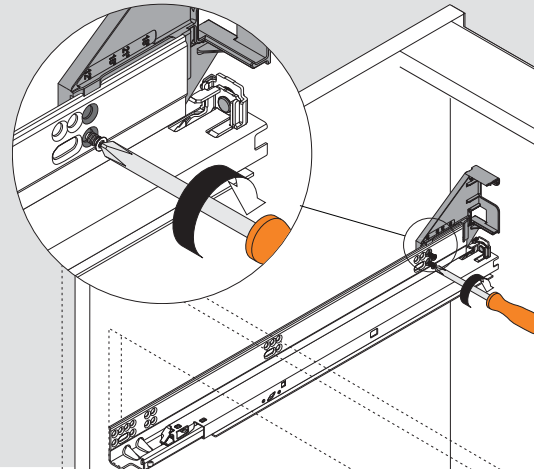
**NOTE:** 41 (1-5/8") is required between drawer back and back panel

### Mounting of adapters

**1** Slide the adapters firmly onto each runner

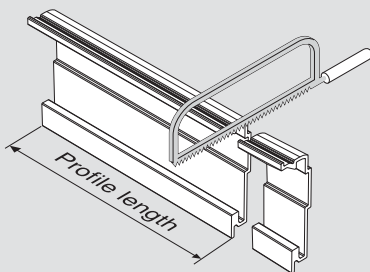


**2** Attach with system screws (661.1150.HG)



### Calculating horizontal profile size

Profile length = interior cabinet opening width minus **19 (3/4")**

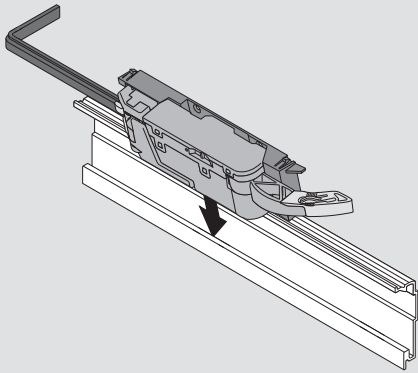




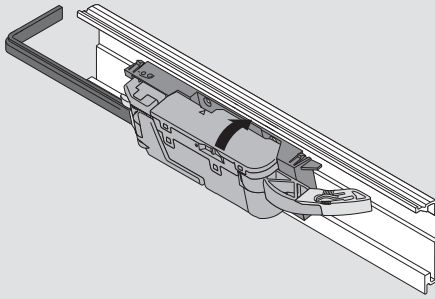
# Horizontal aluminum profile

## Installing profile adapter onto horizontal profile

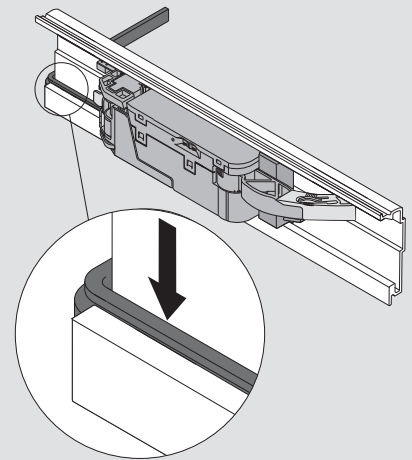
- 1 Place bottom of profile adapter into the bottom slot of profile



- 2 Push top of profile adapter toward the back of the profile and snap into place

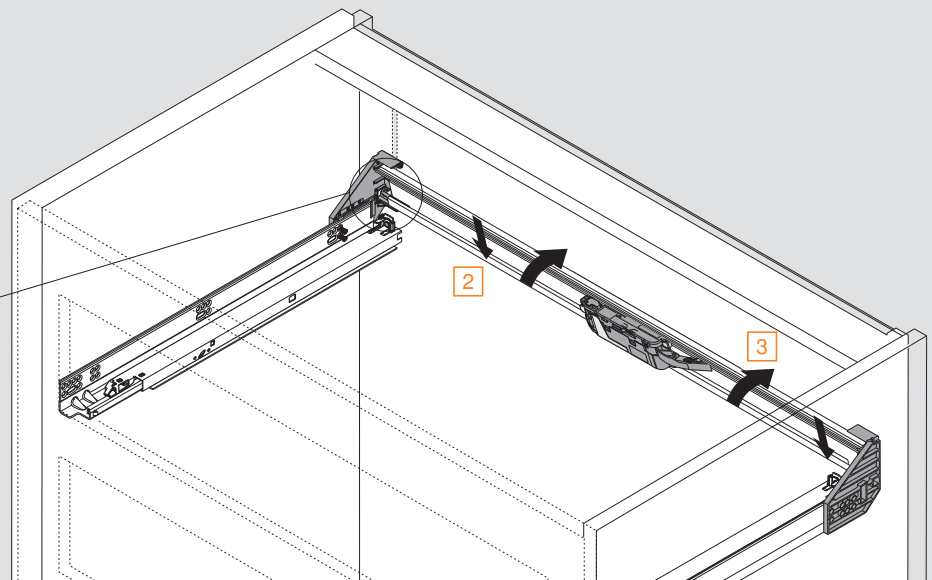
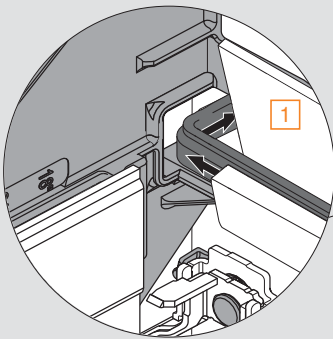


- 3 Align cable along bottom slot of profile

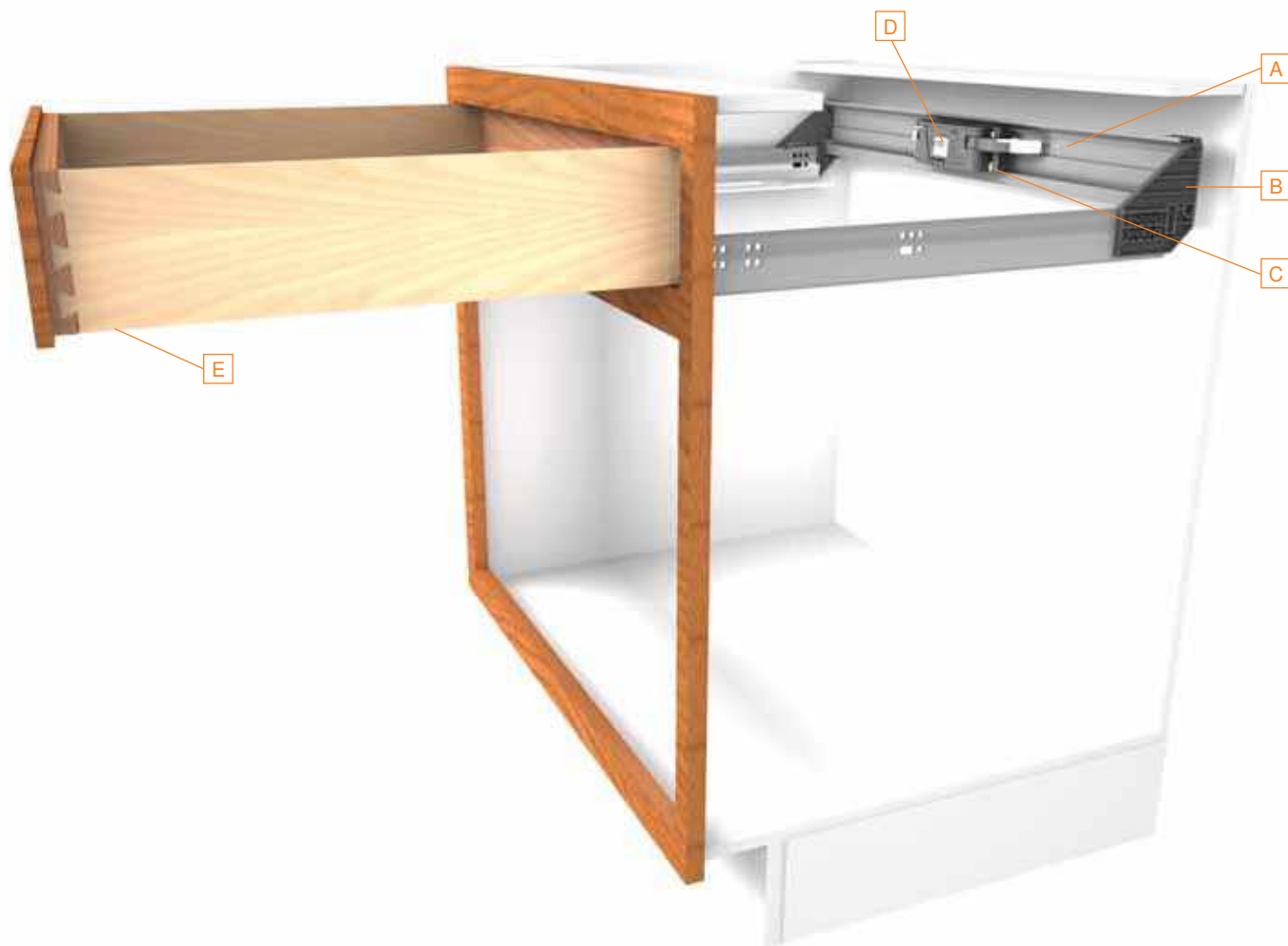


## Installing horizontal profile into adapters

- 1 Slide cable through the notch in the adapter
- 2 Push horizontal profile toward bottom
- 3 Push top of profile to snap into place



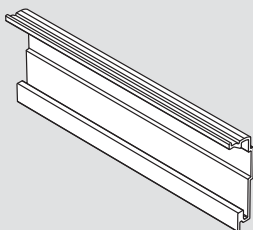
# TANDEM plus BLUMOTION



**NOTE:** For face frame application with rear attachment

## Horizontal aluminum profile

A



Part no.

Profile length **1143** (45"), cut to size

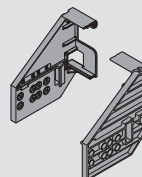
**Z10T1143B**

## Adapter set for horizontal profile, face frame

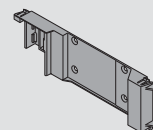
Set includes:

- TANDEM adapters (left and right)
- Profile adapter
- Installation screws 661.1150.HG (qty 4)
- Installation instructions

B



C



Part no.

Adapter set for horizontal profile, face frame

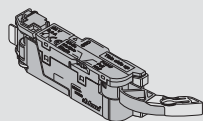
**Z10D5800.US**

# Inset horizontal aluminum profile



## Drive unit

D



Part no.

Installation

pg 63

Drive unit

**Z10A3000.03**

## SERVO-DRIVE locking device with integrated bumper

E

Provides 3 (1/8") gap



Part no.

SERVO-DRIVE locking device, left

**T51.1901.PS L**

SERVO-DRIVE locking device, right

**T51.1901.PS R**

## Power supply set

Set includes:

- 19 ft universal cable
- 24 watt power supply
- Wall mount bracket
- Three-prong power cord
- Cable end protector (qty 3)
- INSERTA cable connector
- Cable clips (qty 10)
- Technical information

Part no.

Details

pg 57

Power supply set

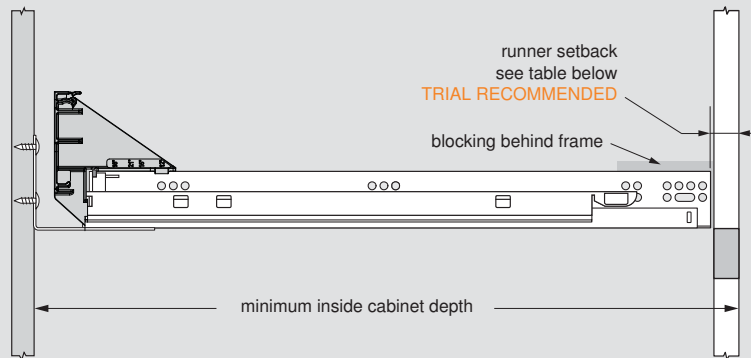
**Z10NE03UG10**

# TANDEM plus BLUMOTION

## Specifications

### Space requirements

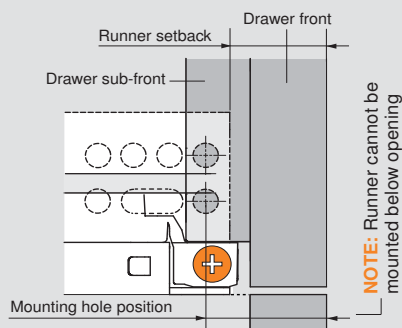
Works with most TANDEM 563 lengths. Minimum opening width is **305 (12")**.



### cabinet depth requirements

minimum inside cabinet depth = drawer length + **38 (1-1/2")** + runner setback

### Mounting the TANDEM runner for inset application



	563/569 H/.	runner setback				563/569 F/A	runner setback			
sub-front thickness	13 (1/2")	20 (25/32")	23 (29/32")	26 (1-1/32")		13 (1/2")	17 (21/32")	20 (25/32")	23 (29/32")	
16 (5/8")	23 (29/32")	26 (1-1/32")	29 (1-5/32")		16 (5/8")	20 (25/32")	23 (29/32")	26 (1-1/32")		
19 (3/4")	26 (1-1/32")	29 (1-5/32")	32 (1-1/4")		19 (3/4")	23 (29/32")	26 (1-1/32")	29 (1-5/32")		
	16 (5/8")	19 (3/4")	22 (7/8")			16 (5/8")	19 (3/4")	22 (7/8")		
	drawer front thickness					drawer front thickness				

- Setbacks in this table recess the face of the drawer front inside of the cabinet **1 (1/32")**
- The depth adjustment can then be used to move the drawer front out to its desired position, **2.5 (3/32")** out adjustment only

### calculating runner setback

563/569 H/. (sub-front thickness + drawer front thickness minus **9 (11/32")** = runner setback)

563/569 F/A (sub-front thickness + drawer front thickness minus **12 (15/32")** = runner setback)

**NOTE:** For mounting hole position, add **7 (9/32")** to runner setback

### SERVO-DRIVE locking device with integrated bumper

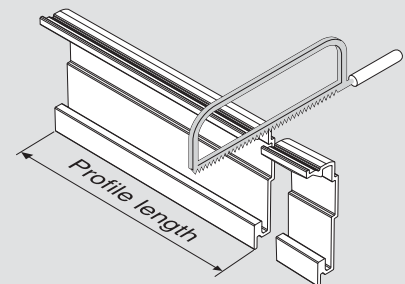


- Captive right device and self-aligning left device
- Self-adjusting drawer length tolerance
- Minimum inside drawer width **170 (6-11/16")**
- Height adjustment **+3 (1/8")**
- Side adjustment **±1.5 (1/16")**
- Depth adjustment **+2.5 (3/32")**, preset at **0**
- Minimum sub-front thickness **13 (1/2")**
- Designed for **13 (1/2")** drawer bottom recess
- Integrated **3 (1/8")** distance bumper for inset or overlay SERVO-DRIVE applications

Installation **pg 64**

### Calculating horizontal profile size

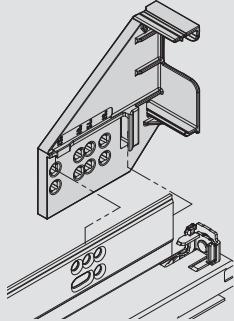
Profile length = interior cabinet opening width minus **19 (3/4")**



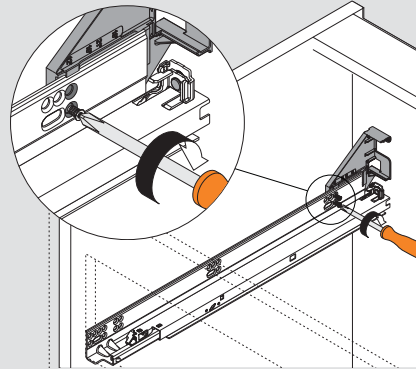
# Inset horizontal aluminum profile

## Mounting adapters

- 1 Slide the adapters firmly onto each runner

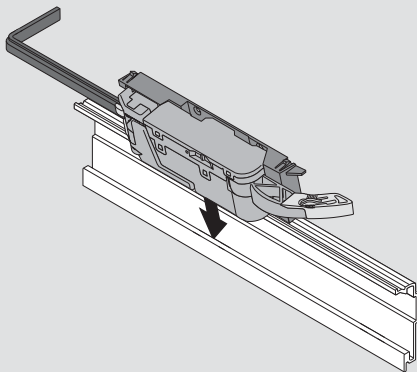


- 2 Attach with system screws (661.1150.HG)

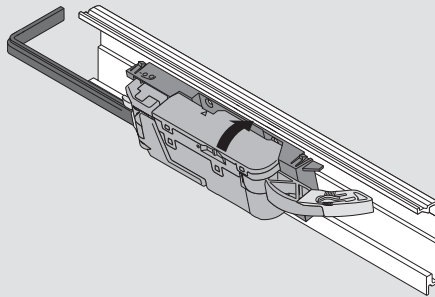


## Installing profile adapter onto horizontal profile

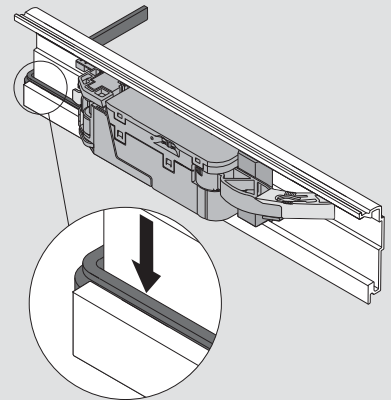
- 1 Place bottom of profile adapter into the bottom slot of profile



- 2 Push top of profile adapter toward the back of the profile and snap into place

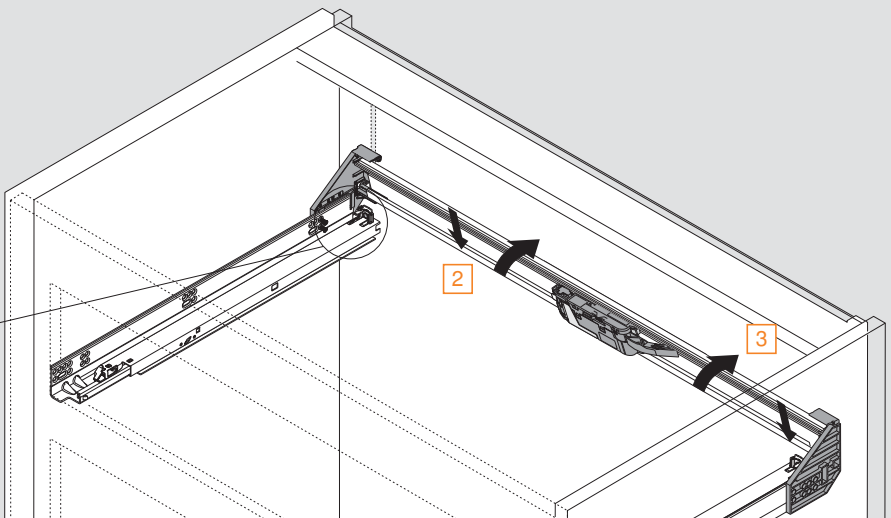
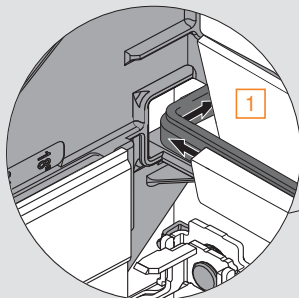


- 3 Align cable along bottom slot of profile



## Installing horizontal profile into adapters

- 1 Slide cable through the notch in the adapter
- 2 Push horizontal profile toward bottom
- 3 Push top of profile to snap into place



Wiring options pg 61

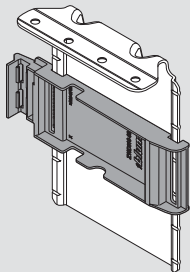


# TANDEM plus BLUMOTION



### Top bracket with adapter

A



Part no.

Top bracket with adapter

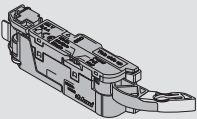
**Z10D6252**

Installation screw

**661.1300.HG**

### Drive unit

B



Part no.

Installation

pg 63

Drive unit

**Z10A3000.03**

### Blum distance bumper

C Provides 3 (1/8") gap

1



2



Part no.

1 Ø5 mm bumper

**993.0531**

2 Screw-on bumper

**993.1220**

Specifications

pg 60

# Top bracket



## Power supply set

### Set includes:

- 19 ft universal cable
- 24 watt power supply
- Wall mount bracket
- Three-prong power cord
- Cable end protector (qty 3)
- INSERTA cable connector
- Cable clips (qty 10)
- Technical information

Part no.

Details

pg 57

Power supply set

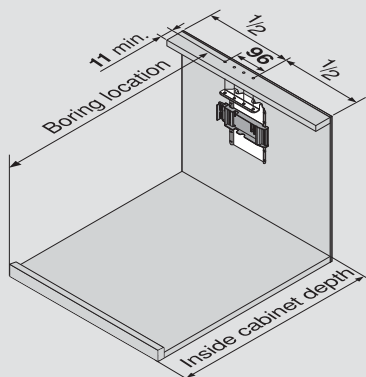
Z10NE03UG10

# TANDEM plus BLUMOTION

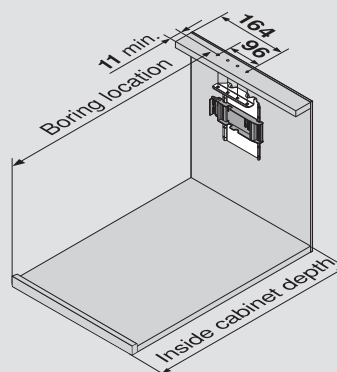
## Specifications

### Space requirements

For opening widths **340** (13-3/8") and wider



For opening widths **246 to 339** (9-11/16" – 13-3/8")



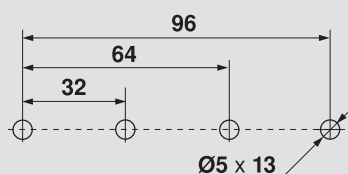
### boring location requirements

drawer length	<b>229</b> (9")	<b>305</b> (12")	<b>381</b> (15")	<b>457</b> (18")	<b>533</b> (21")	<b>610</b> (24")	<b>686</b> (27")	<b>762</b> (30")
boring location	<b>233</b> (9-3/16")	<b>309</b> (12-3/16")	<b>385</b> (15-3/16")	<b>461</b> (18-3/16")	<b>537</b> (21-3/16")	<b>614</b> (24-3/16")	<b>690</b> (27-3/16")	<b>766</b> (30-3/16")
min. inside cabinet depth	<b>270</b> (10-5/8")	<b>346</b> (13-5/8")	<b>422</b> (16-5/8")	<b>498</b> (19-5/8")	<b>574</b> (22-5/8")	<b>651</b> (25-5/8")	<b>727</b> (28-5/8")	<b>803</b> (31-5/8")

**NOTE:** 41 (1-5/8") is required between drawer back and back panel

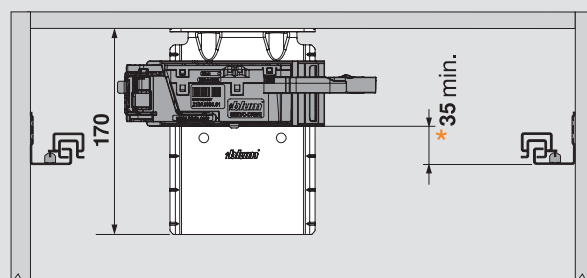
### Boring specifications

#### Top boring pattern



### Positioning the drive unit

One drive unit can be positioned anywhere along the height of the bracket

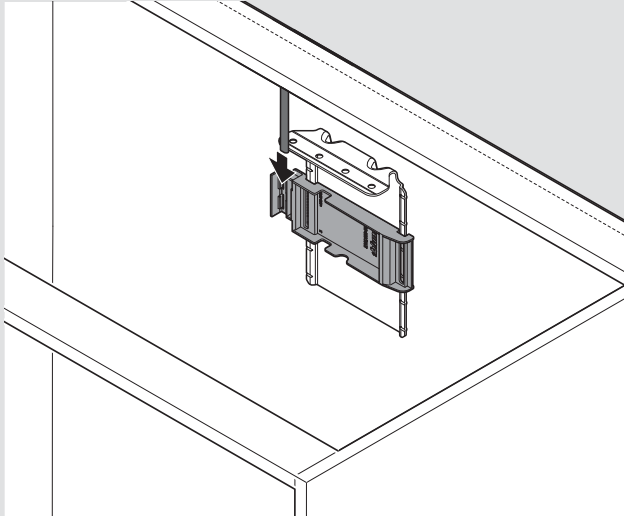


\* If opening width is less than **420** (16-9/16"), drive unit should be mounted **50** (1-15/16") minimum from bottom of runner

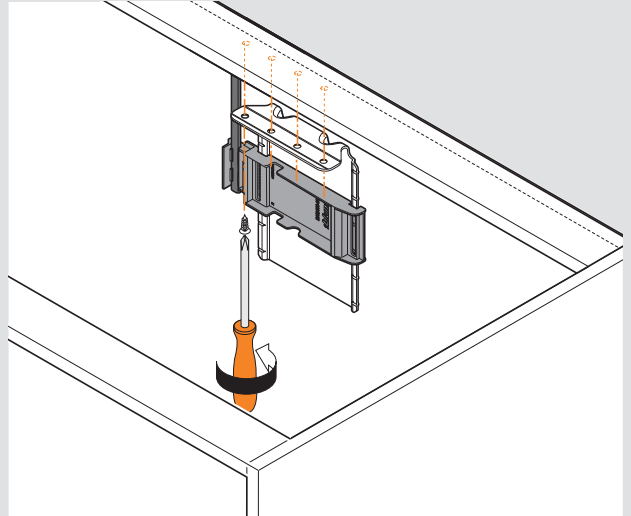
# Top bracket

## Installation of top bracket with adapter

1 Feed cable into the drive unit attachment bracket

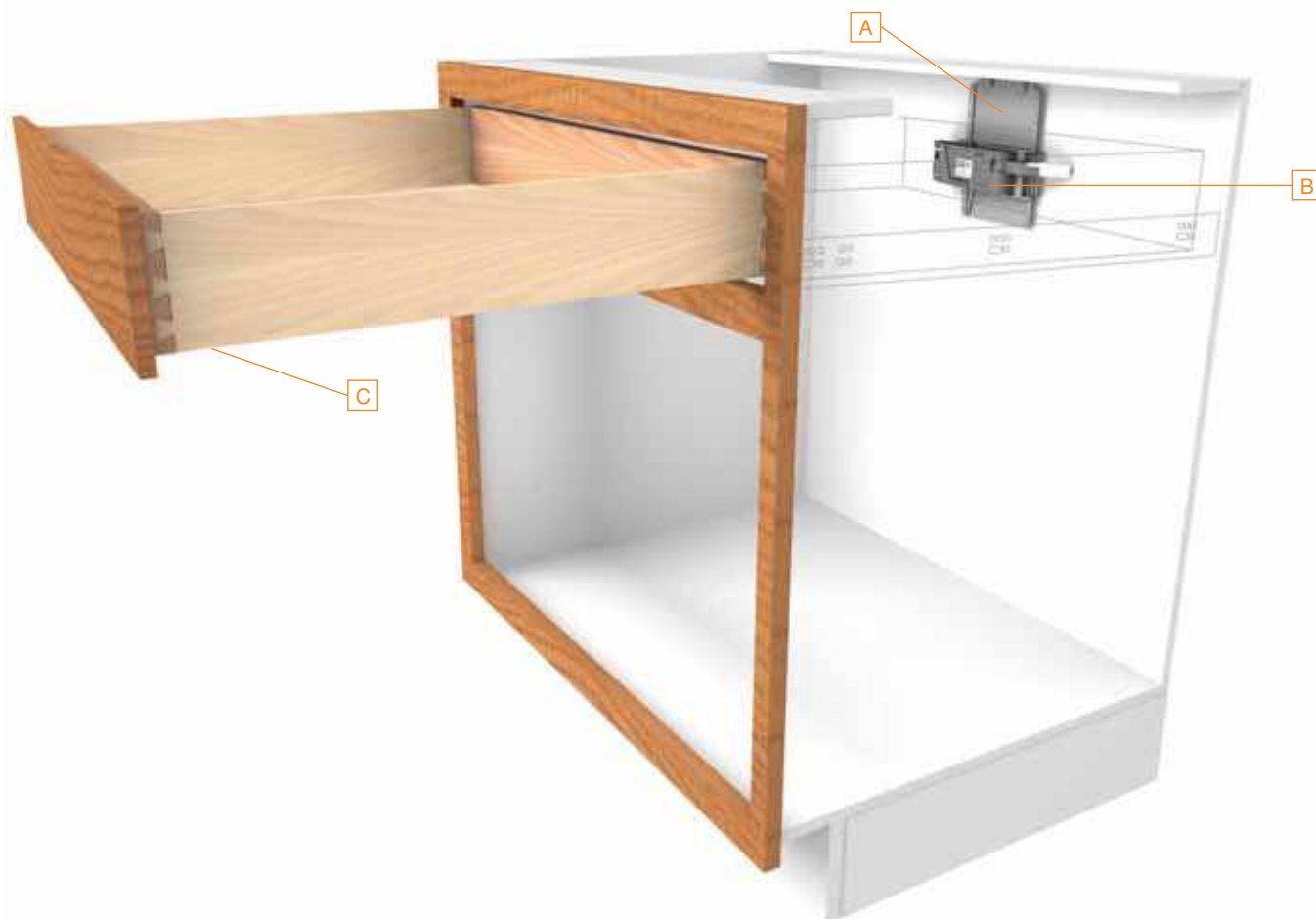


2 Secure with four system screws (661.1300.HG)



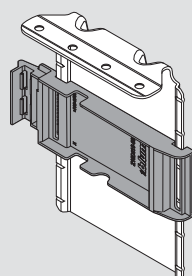
Wiring options pg 61

# TANDEM plus BLUMOTION



## Top bracket with adapter

A



Part no.

Top bracket with adapter

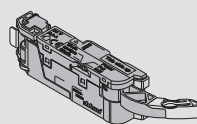
**Z10D6252**

Installation screw

**661.1300.HG**

## Drive unit

B



Part no.

Installation

pg 63

Drive unit

**Z10A3000.03**

## SERVO-DRIVE locking device with integrated bumper

C

Provides 3 (1/8") gap



Part no.

SERVO-DRIVE locking device, left

**T51.1901.PS L**

SERVO-DRIVE locking device, right

**T51.1901.PS R**



## Inset top bracket



### Power supply set

#### Set includes:

- 19 ft universal cable
- 24 watt power supply
- Wall mount bracket
- Three-prong power cord
- Cable end protector (qty 3)
- INSERTA cable connector
- Cable clips (qty 10)
- Technical information

Part no.

Details

pg 57

Power supply set

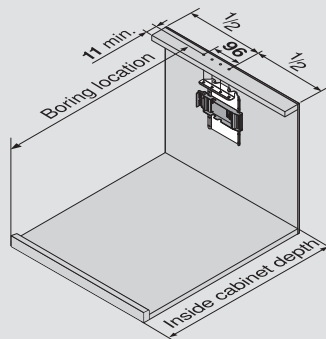
Z10NE03UG10

# TANDEM plus BLUMOTION

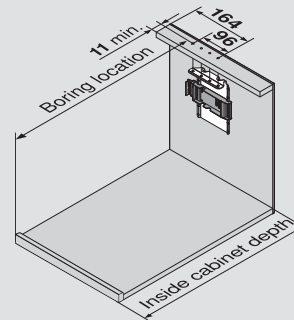
## Specifications

### Space requirements

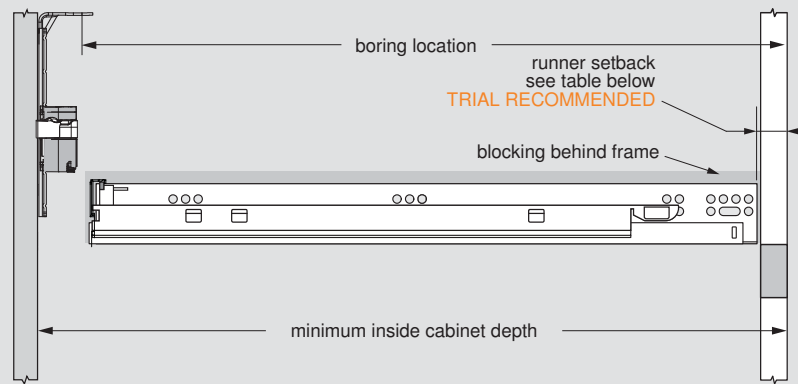
For opening widths **340** (13-3/8") and wider



For opening widths **246 to 339** (9-11/16" – 13-3/8")



### Boring specifications

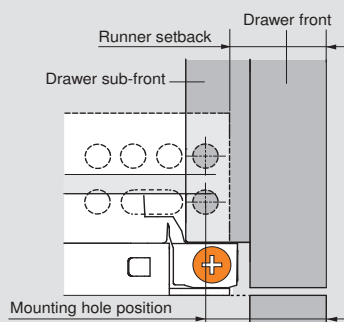


#### boring location requirements

boring location = drawer length + 1 (1/32") + runner setback

minimum inside cabinet depth = drawer length + 38 (1-1/2") + runner setback

### Mounting the TANDEM runner for inset application



**NOTE:** Runner cannot be mounted below opening

563/569 H/.		runner setback			563/569 F/A		runner setback		
sub-front thickness	13 (1/2")	20 (25/32")	23 (29/32")	26 (1-1/32")	sub-front thickness	13 (1/2")	17 (21/32")	20 (25/32")	23 (29/32")
	16 (5/8")	23 (29/32")	26 (1-1/32")	29 (1-5/32")		16 (5/8")	20 (25/32")	23 (29/32")	26 (1-1/32")
	19 (3/4")	26 (1-1/32")	29 (1-5/32")	32 (1-1/4")		19 (3/4")	23 (29/32")	26 (1-1/32")	29 (1-5/32")
		drawer front thickness					drawer front thickness		
		16 (5/8")	19 (3/4")	22 (7/8")			16 (5/8")	19 (3/4")	22 (7/8")

- Setbacks in this table recess the face of the drawer front inside of the cabinet 1 (1/32")
- The depth adjustment can then be used to move the drawer front out to its desired position, 2.5 (3/32") out adjustment only

#### calculating runner setback

563/569 H/. (sub-front thickness + drawer front thickness minus 9 (11/32") = runner setback)

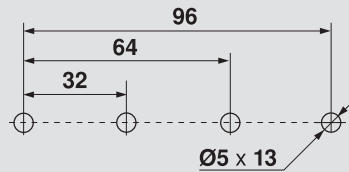
563/569 F/A (sub-front thickness + drawer front thickness minus 12 (15/32") = runner setback)

**NOTE:** For mounting hole position, add 7 (9/32") to runner setback

# Inset top bracket

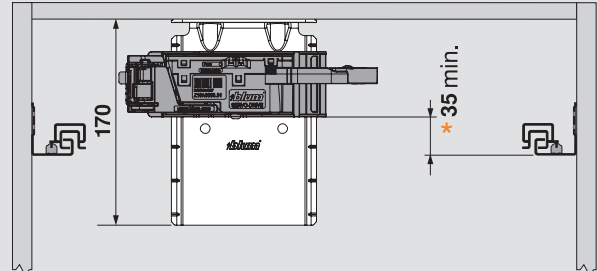
## Boring specifications

### Top boring pattern



## Positioning the drive unit

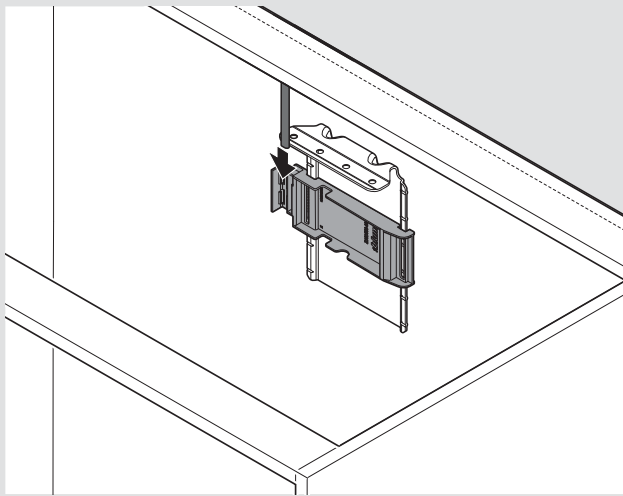
One drive unit can be positioned anywhere along the height of the bracket



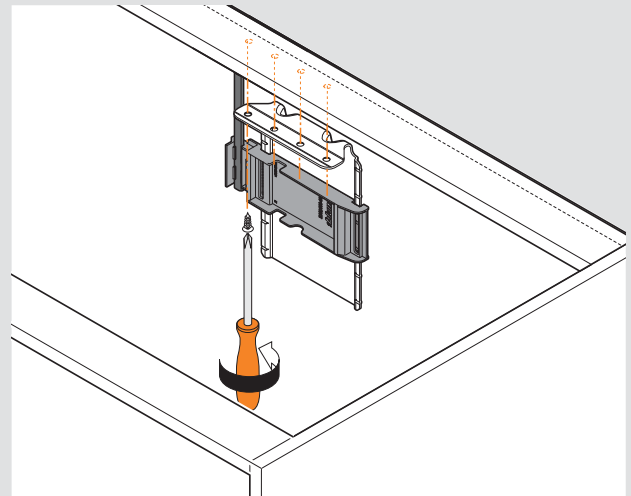
\*If opening width is less than **420** (16-9/16"), drive unit should be mounted **50** (1-15/16") minimum from bottom of runner

## Installation of top adapter

**1** Feed cable into the drive unit attachment bracket



**2** Secure with four system screws (661.1300.HG)



Wiring options **pg 61**

## SERVO-DRIVE locking device with integrated bumper



- Captive right device and self-aligning left device
- Self-adjusting drawer length tolerance
- Minimum inside drawer width **170** (6-11/16")
- Height adjustment **+3** (1/8")
- Side adjustment **±1.5** (1/16")
- Depth adjustment **+2.5** (3/32"), preset at **0**
- Minimum sub-front thickness **13** (1/2")
- Designed for **13** (1/2") drawer bottom recess
- Integrated **3** (1/8") distance bumper for inset or overlay SERVO-DRIVE applications

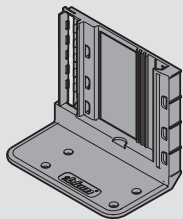
Installation **pg 64**

# TANDEM plus BLUMOTION



## Bottom bracket

A



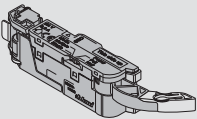
**NOTE:** 800 (31-1/2") universal cable is included

Part no.

Bottom bracket, double for two drive units	Z10D7201.01
Installation screw	606N or 606P

## Drive unit

B



Part no.

Installation	pg 63	Drive unit	Z10A3000.03
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## Blum distance bumper

C Provides 3 (1/8") gap



Part no.

	1	Ø5 mm bumper	993.0531
Specifications pg 60	2	Screw-on bumper	993.1220

# Bottom bracket



## Waste/recycle set

### Set includes:

- Adapter plate
- Drive unit (pre-attached)
- Double bottom bracket (additional drive unit can be attached)
- 110v plug-in power supply with six foot cable
- Screw-on distance bumpers (qty 4)
- INSERTA cable connector
- Mounting template and instruction sheet
- All necessary mounting screws are included

Part no.

Details

pg 56

Waste/recycle set

**Z10NA30UGUS**

## Power supply set

### Set includes:

- 19 ft universal cable
- 24 watt power supply
- Wall mount bracket
- Three-prong power cord
- Cable end protector (qty 3)
- INSERTA cable connector
- Cable clips (qty 10)
- Technical information

Part no.

Details

pg 57

Power supply set

**Z10NE03UG10**



# TANDEM plus BLUMOTION

## Specifications

Space requirements

For opening widths **340** (13-3/8") and wider

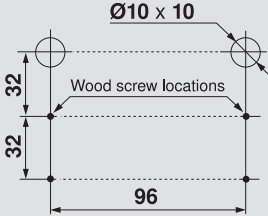
A 3D perspective diagram of a drawer being installed into a cabinet. The drawer is shown partially inserted. A vertical arrow points from the top of the drawer to the back panel, labeled 'Inside cab. depth'. A horizontal arrow points from the side of the drawer to the back panel, labeled 'Boring location'. The dimensions 1/2 and 1/2 are indicated along the side of the drawer.

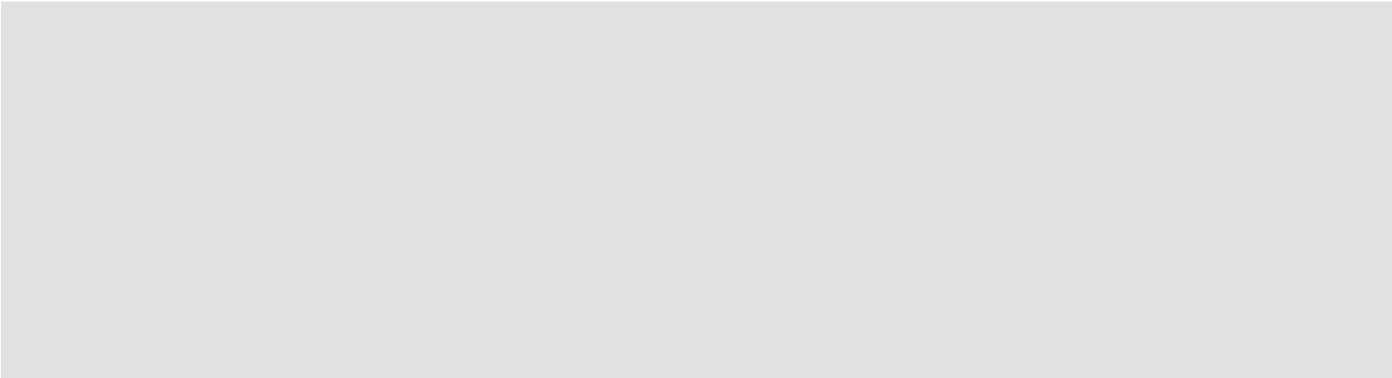
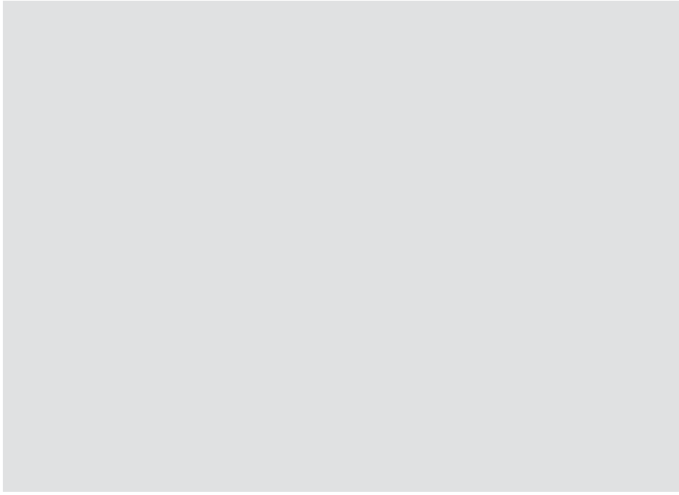
For opening widths **275 to 339** (10-13/16" to 13-3/8")

A 3D perspective diagram of a drawer being installed into a cabinet. The drawer is shown partially inserted. A vertical arrow points from the top of the drawer to the back panel, labeled 'Inside cab. depth'. A horizontal arrow points from the side of the drawer to the back panel, labeled 'Boring location'. The dimension 200 is indicated along the side of the drawer.

boring location requirements								
drawer length	229 (9")	305 (12")	381 (15")	457 (18")	533 (21")	610 (24")	686 (27")	762 (30")
boring location	253 (9-15/16")	329 (12-15/16")	405 (15-15/16")	481 (18-15/16")	557 (21-15/16")	634 (24-15/16")	710 (27-15/16")	786 (30-15/16")
min. inside cabinet depth	270 (10-5/8")	346 (13-5/8")	422 (16-5/8")	498 (19-5/8")	574 (22-5/8")	651 (25-5/8")	727 (28-5/8")	803 (31-5/8")

**NOTE:** 41 (1-5/8") is required between drawer back and back panel

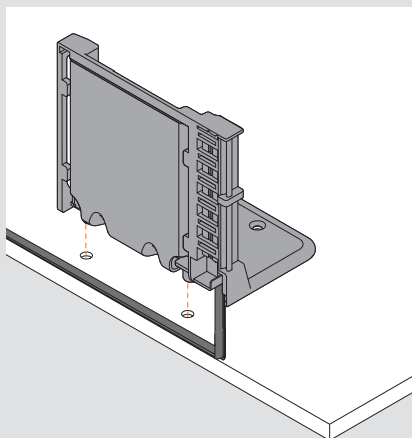
Boring specifications	
Bottom boring pattern	
	



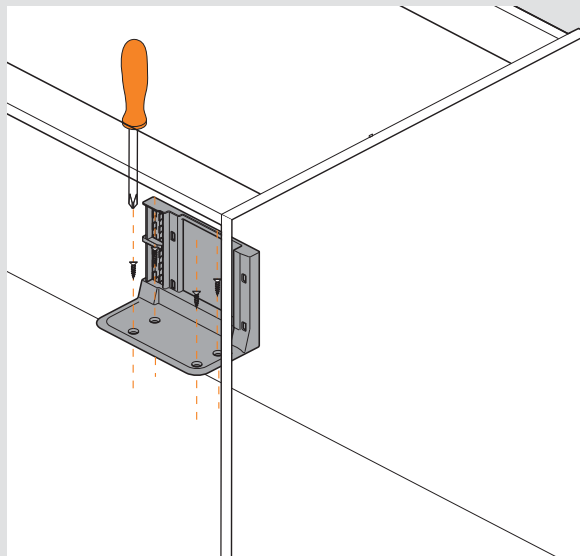
# Bottom bracket

## Installation of bottom bracket

1 Insert locating pins into pre-bored holes

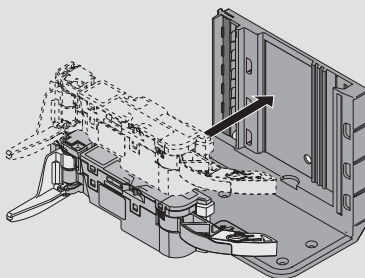


2 Secure with four wood screws (606N or 606P)



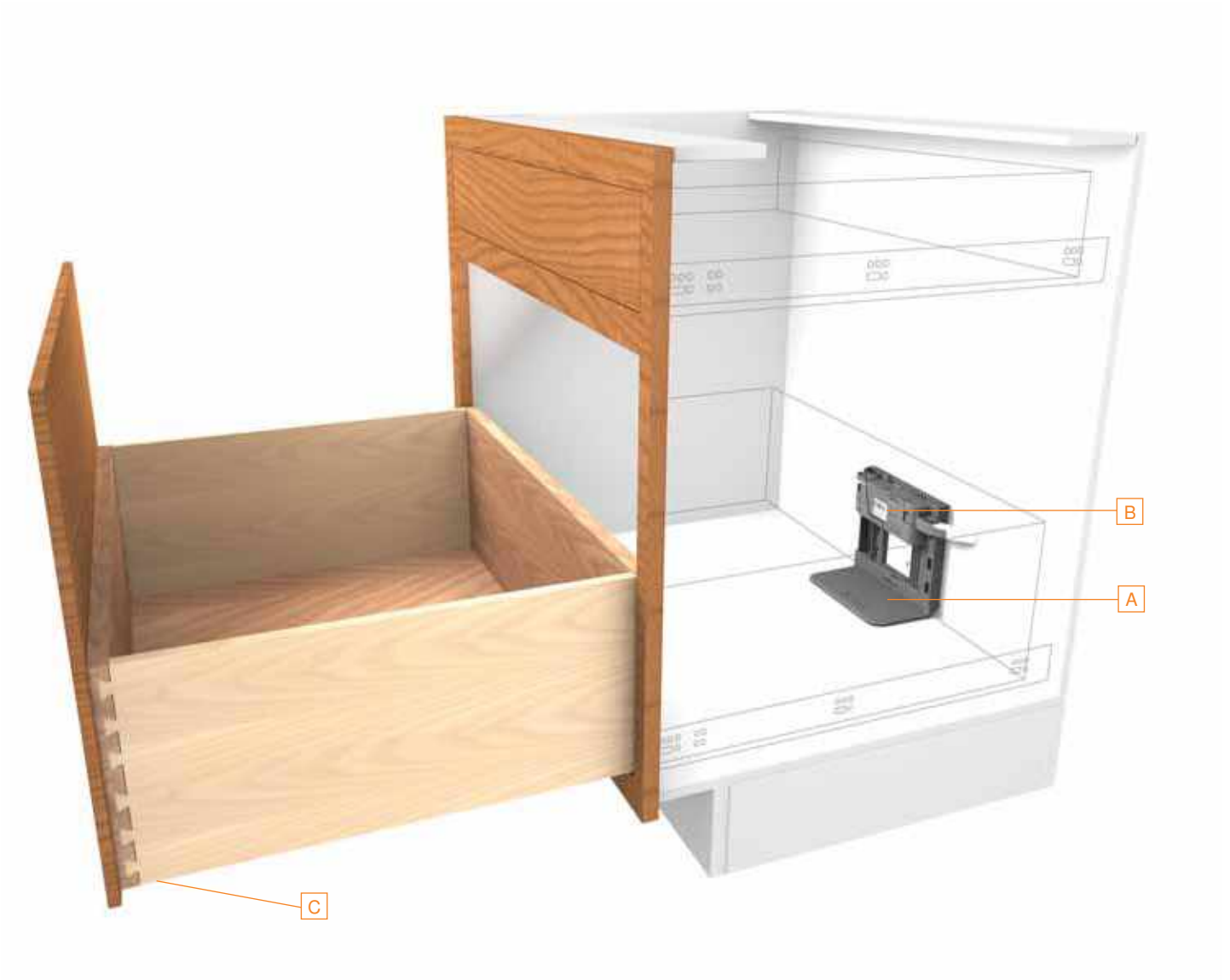
## Drive unit attachment

Bottom bracket for attachment of one or two drive units



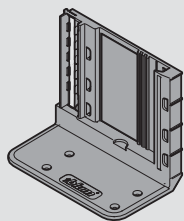
Wiring options pg 61

# TANDEM plus BLUMOTION



## Bottom bracket

A



**NOTE:** 800 (31-1/2") universal cable is included

Part no.

Bottom bracket, double for two drive units

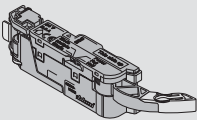
Z10D7201.01

Installation screw

606N or 606P

## Drive unit

B



Part no.

Installation pg 63 Drive unit

Z10A3000.03

## SERVO-DRIVE locking device with integrated bumper

C Provides 3 (1/8") gap



Part no.

SERVO-DRIVE locking device, left

T51.1901.PS L

SERVO-DRIVE locking device, right

T51.1901.PS R

# Inset bottom bracket



## Waste/recycle set

### Set includes:

- Adapter plate
- Drive unit (pre-attached)
- Double bottom bracket (additional drive unit can be attached)
- 110v plug-in power supply with six foot cable
- Screw-on distance bumpers (qty 4)
- INSERTA cable connector
- Mounting template and instruction sheet
- All necessary mounting screws are included

Part no.

Details

pg 56

Waste/recycle set

**Z10NA30UGUS**

## Power supply set

### Set includes:

- 19 ft universal cable
- 24 watt power supply
- Wall mount bracket
- Three-prong power cord
- Cable end protector (qty 3)
- INSERTA cable connector
- Cable clips (qty 10)
- Technical information

Part no.

Details

pg 57

Power supply set

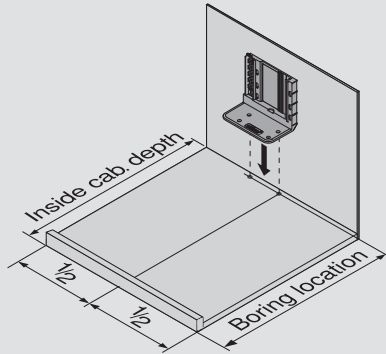
**Z10NE03UG10**

# TANDEM plus BLUMOTION

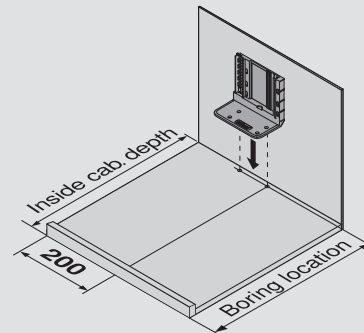
## Specifications

### Space requirements

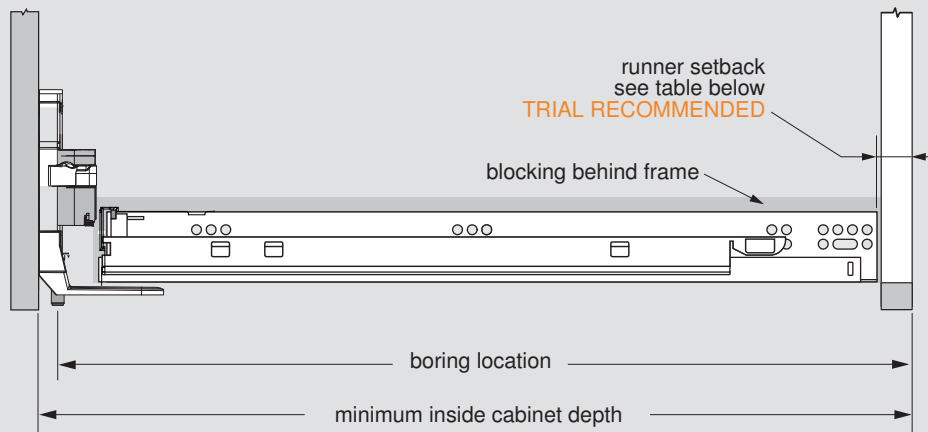
For opening widths **340** (13-3/8") and wider



For opening widths **275 to 339** (10-13/16" – 13-3/8")



### Boring specifications

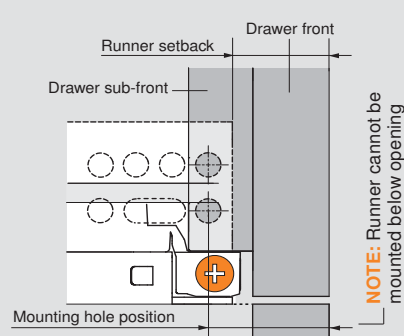


boring location requirements

boring location = drawer length + **21** (13/16") + runner setback

minimum inside cabinet depth = drawer length + **38** (1-1/2") + runner setback

### Mounting the TANDEM runner for inset application



563/569 H/L		runner setback			563/569 F/A		runner setback		
sub-front thickness	13 (1/2")	20 (25/32")	23 (29/32")	26 (1-1/32")	sub-front thickness	13 (1/2")	17 (21/32")	20 (25/32")	23 (29/32")
	16 (5/8")	23 (29/32")	26 (1-1/32")	29 (1-5/32")		16 (5/8")	20 (25/32")	23 (29/32")	26 (1-1/32")
	19 (3/4")	26 (1-1/32")	29 (1-5/32")	32 (1-1/4")		19 (3/4")	23 (29/32")	26 (1-1/32")	29 (1-5/32")
		16 (5/8")	19 (3/4")	22 (7/8")			16 (5/8")	19 (3/4")	22 (7/8")
		drawer front thickness					drawer front thickness		

- Setbacks in this table recess the face of the drawer front inside of the cabinet **1** (1/32")
- The depth adjustment can then be used to move the drawer front out to its desired position, **2.5** (3/32") out adjustment only

calculating runner setback

563/569 H/L (sub-front thickness + drawer front thickness minus **9** (11/32") = runner setback)

563/569 F/A (sub-front thickness + drawer front thickness minus **12** (15/32") = runner setback)

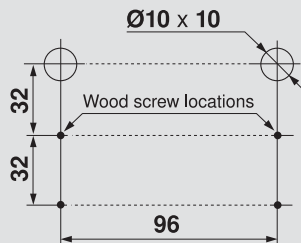
**NOTE:** For mounting hole position, add **7** (9/32") to runner setback



# Inset bottom bracket

## Boring specifications

### Bottom boring pattern



## SERVO-DRIVE locking device with integrated bumper

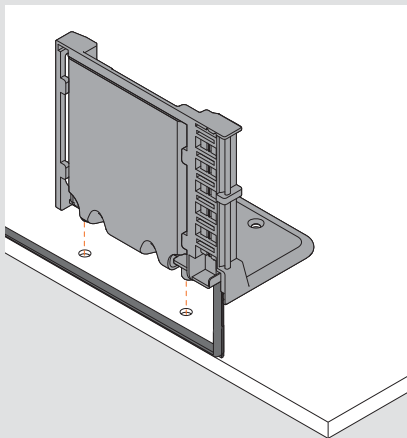


- Captive right device and self-aligning left device
- Self-adjusting drawer length tolerance
- Minimum inside drawer width **170** (6-11/16")
- Height adjustment **+3** (1/8")
- Side adjustment **±1.5** (1/16")
- Depth adjustment **+2.5** (3/32"), preset at **0**
- Minimum sub-front thickness **13** (1/2")
- Designed for **13** (1/2") drawer bottom recess
- Integrated **3** (1/8") distance bumper for inset or overlay SERVO-DRIVE applications

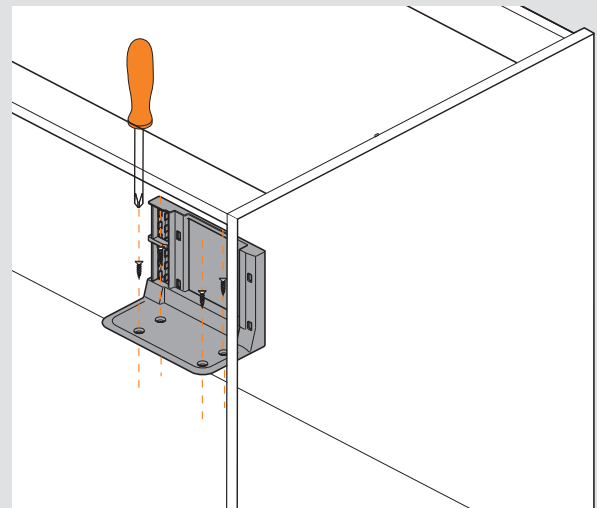
Installation **pg 64**

## Installation of bottom bracket

- 1 Insert locating pins into pre-bored holes

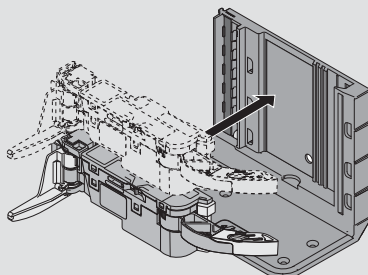


- 2 Secure with four wood screws (606N or 606P)



## Drive unit attachment

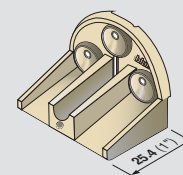
Bottom bracket for attachment of one or two drive units



Wiring options **pg 61**

## TANDEM inset spacer

For applications where there would not be enough space behind the drawer box to add SERVO-DRIVE due to cabinet construction, plumbing, etc. Two required per drawer.



Part no.

TANDEM spacer

**T59.A5P0S**

Installation screw

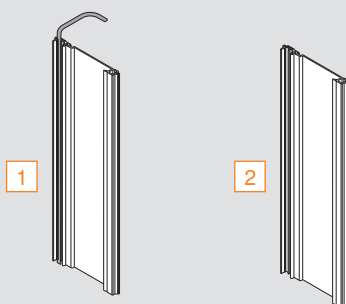
**606N or 606P**

# TANDEMBOX



## Vertical aluminum profile

**A** Profile can be cut to size



\*cable length 800 (31-1/2")

Part no.

**1** Profile with cable, length 720 (28-3/8")\*

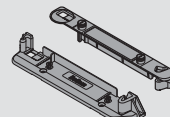
**Z10T720AB**

**1** Profile without cable, length 1170 (46")

**Z10T1170A**

## Top and bottom adapter set

**B** For use with horizontal stretcher rail



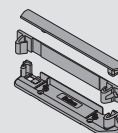
Part no.

Top and bottom adapter set

**Z10D01E0.01**

## Back and bottom adapter set

**B** For use with back stretcher rail



Part no.

Back and bottom adapter set with cover cap

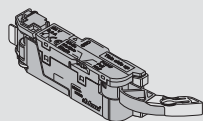
**Z10D01EA.01**

# Vertical aluminum profile



## Drive unit

C



Part no.

Installation

pg 63

Drive unit

Z10A3000.03

## Blum distance bumper

D Provides 3 (1/8") gap

1



2



Part no.

1 Ø5 mm bumper

993.0531

2 Screw-on bumper

993.1220

Specifications

pg 60

## Power supply set

Set includes:

- 19 ft universal cable
- 24 watt power supply
- Wall mount bracket
- Three-prong power cord
- Cable end protector (qty 3)
- INSERTA cable connector
- Cable clips (qty 10)
- Technical information

Part no.

Details

pg 57

Power supply set

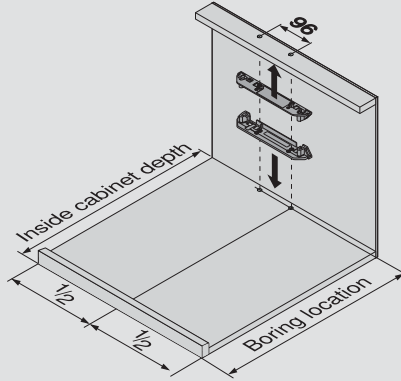
Z10NE03UG10

# TANDEMBOX top and bottom adapter

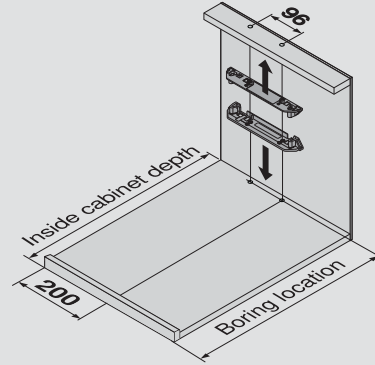
## Specifications

### Space requirements

For opening widths **420** (16-9/16") and wider



For opening widths **275 to 419** (10-13/16" – 16-1/2")



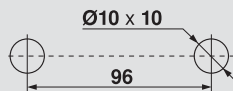
### boring location requirements

profile length	<b>270</b> (10-5/8")	<b>350</b> (13-3/4")	<b>400</b> (15-3/4")	<b>450</b> (17-11/16")	<b>500</b> (19-11/16")	<b>550</b> (21-5/8")	<b>600</b> (23-5/8")	<b>650</b> (25-9/16")
boring location	<b>289</b> (11-3/8")	<b>369</b> (14-1/2")	<b>419</b> (16-1/2")	<b>469</b> (18-7/16")	<b>519</b> (20-7/16")	<b>569</b> (22-3/8")	<b>619</b> (24-3/8")	<b>669</b> (26-5/16")
min. inside cabinet depth	<b>306</b> (12-1/16")	<b>386</b> (15-3/16")	<b>436</b> (17-3/16")	<b>486</b> (19-1/8")	<b>536</b> (21-1/8")	<b>586</b> (23-1/16")	<b>636</b> (25-1/16")	<b>686</b> (27")

**NOTE:** 41 (1-5/8") is required between drawer back and back panel

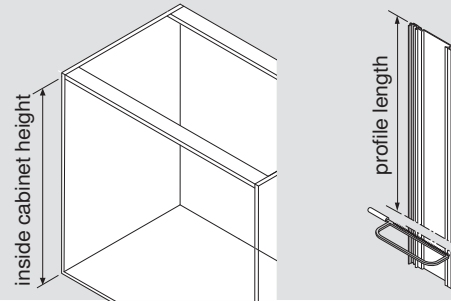
### Boring specifications

#### Top and bottom boring pattern



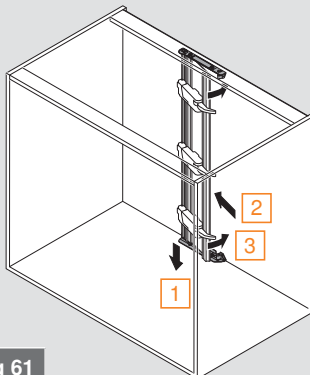
### Calculating vertical profile length

Profile length = inside cabinet height minus **19** (3/4")



### Installing vertical aluminum profile

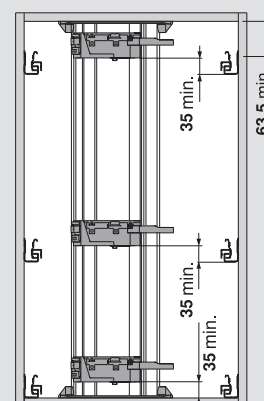
- 1 Set profile onto bottom adapter
- 2 Push profile toward left side while engaging top
- 3 Push back on right side and snap into place



Wiring options **pg 61**

### Positioning the drive unit

Lever arm should contact center of drawer back

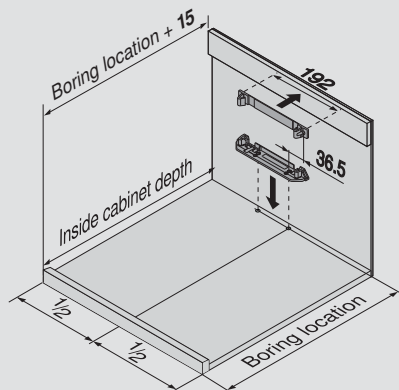


# TANDEMBOX back and bottom adapter

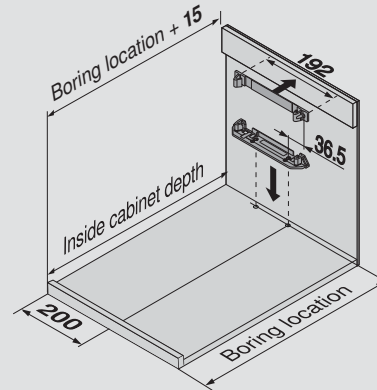
## Specifications

### Space requirements

For opening widths **420** (16-9/16") and wider



For opening widths **275 to 419** (10-13/16" – 16-1/8")



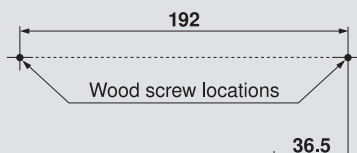
boring location requirements

profile length	<b>270</b> (10-5/8")	<b>350</b> (13-3/4")	<b>400</b> (15-3/4")	<b>450</b> (17-11/16")	<b>500</b> (19-11/16")	<b>550</b> (21-5/8")	<b>600</b> (23-5/8")	<b>650</b> (25-9/16")
boring location	<b>289</b> (11-3/8")	<b>369</b> (14-1/2")	<b>419</b> (16-1/2")	<b>469</b> (18-7/16")	<b>519</b> (20-7/16")	<b>569</b> (22-3/8")	<b>619</b> (24-3/8")	<b>669</b> (26-5/16")
min. inside cabinet depth	<b>306</b> (12-1/16")	<b>386</b> (15-3/16")	<b>436</b> (17-3/16")	<b>486</b> (19-1/8")	<b>536</b> (21-1/8")	<b>586</b> (23-1/16")	<b>636</b> (25-1/16")	<b>686</b> (27")

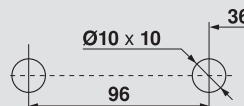
**NOTE:** 41 (1-5/8") is required between drawer back and back panel

### Boring specifications

#### Back screw positioning

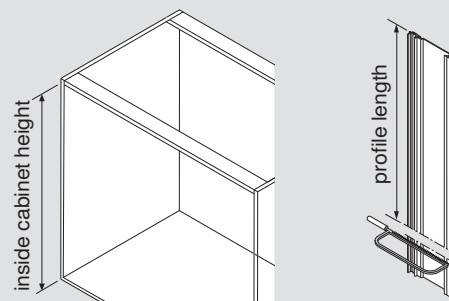


#### Bottom boring pattern



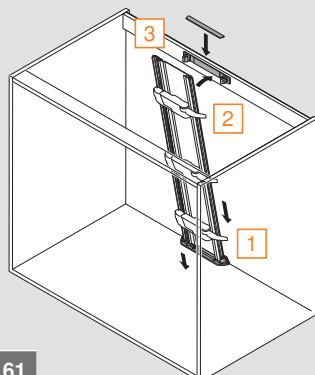
### Determining vertical profile length

Profile length is dependent upon back adapter location



### Installing vertical aluminum profile

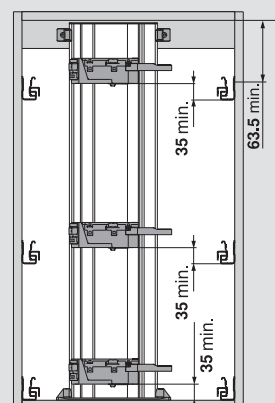
- 1 Set profile onto bottom adapter
- 2 Push profile toward back while engaging adapter
- 3 Snap cover cap onto top of profile



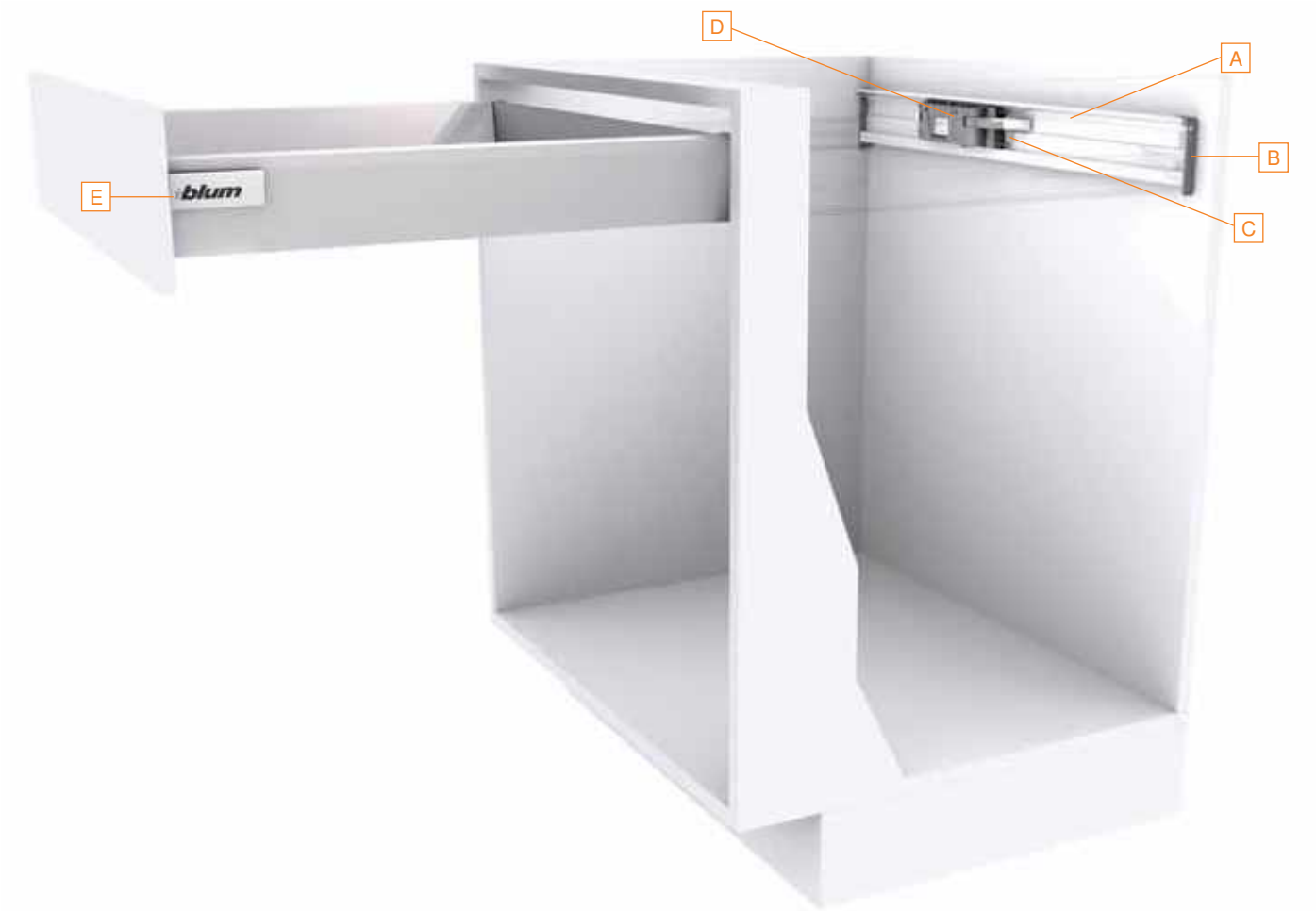
Wiring options pg 61

### Positioning the drive unit

Lever arm should contact center of drawer back

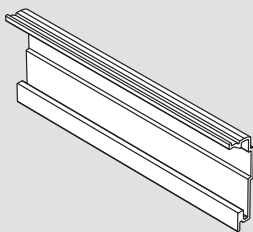


# TANDEMBOX



## Horizontal aluminum profile

A



Part no.

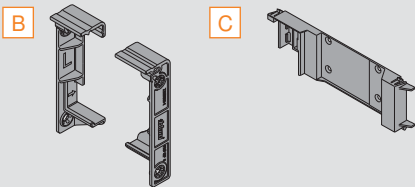
Profile length **1143** (45"), cut to size

**Z10T1143B**

## Adapter set for horizontal aluminum profile, panel

Set includes:

- Panel adapters (left and right)
- Profile adapter
- Installation template



Part no.

Adapter set for horizontal profile, panel

**Z10D5210.US**

Installation wood screw

**606N or 606P**

Installation system screw

**661.1300.HG**

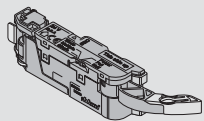


# Horizontal aluminum profile



## Drive unit

**D**



Part no.

Installation

pg 63

Drive unit

**Z10A3000.03**

## Blum distance bumper

**E**

Provides 3 (1/8") gap

**1**



**2**



Part no.

**1** Ø5 mm bumper

**993.0531**

**2** Screw-on bumper

**993.1220**

Specifications

pg 60

## Power supply set

Set includes:

- 19 ft universal cable
- 24 watt power supply
- Wall mount bracket
- Three-prong power cord
- Cable end protector (qty 3)
- INSERTA cable connector
- Cable clips (qty 10)
- Technical information

Part no.

Details

pg 57

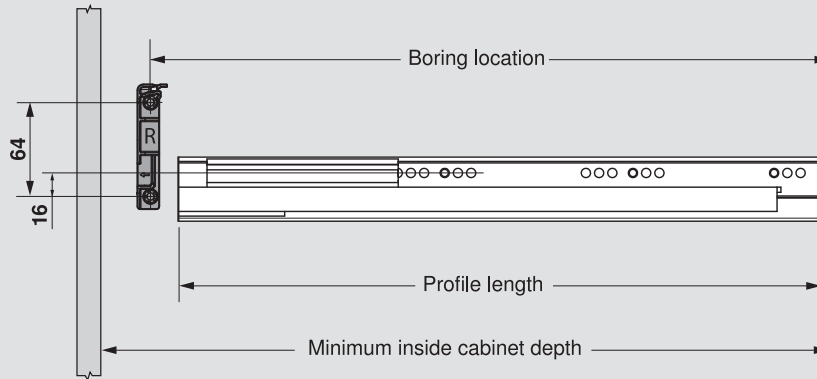
Power supply set

**Z10NE03UG10**

# TANDEMBOX

## Specifications

### Space requirements



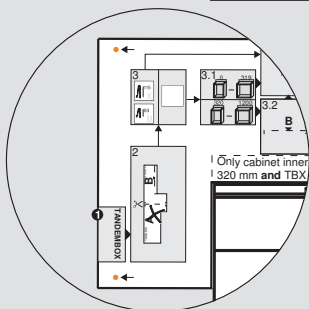
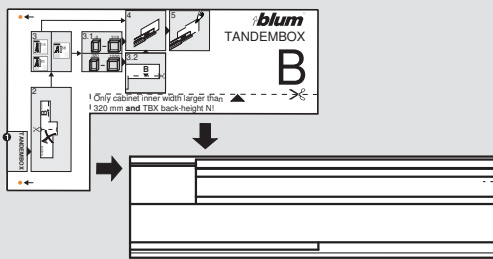
#### boring location requirements

profile length	270 (10-5/8")	350 (13-3/4")	400 (15-3/4")	450 (17-11/16")	500 (19-11/16")	550 (21-5/8")	600 (23-5/8")	650 (25-9/16")
boring location	297 (11-11/16")	377 (14-13/16")	427 (16-13/16")	477 (18-3/4")	527 (20-3/4")	577 (22-11/16")	627 (24-11/16")	677 (26-5/8")
min. inside cabinet depth	306 (12-1/16")	386 (15-3/16")	436 (17-3/16")	486 (19-1/8")	536 (21-1/8")	586 (23-1/16")	636 (25-1/16")	686 (27")

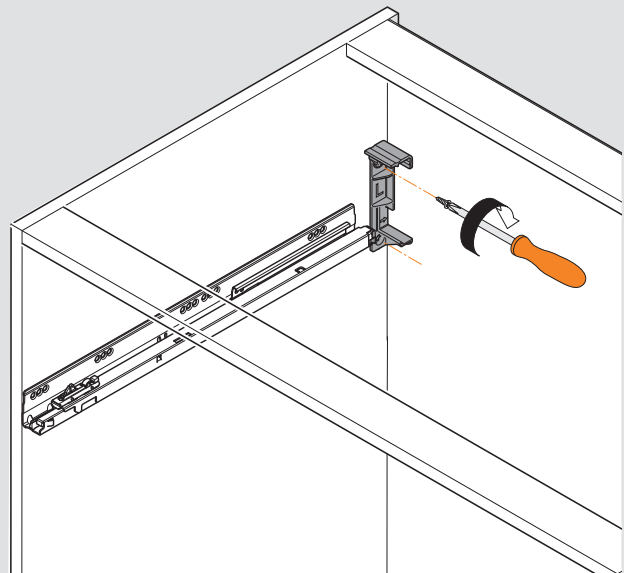
**NOTE:** 41 (1-5/8") is required between drawer back and back panel

### Mounting of adapters

- 1 Set cardboard template onto runner
- 2 Mark hole position



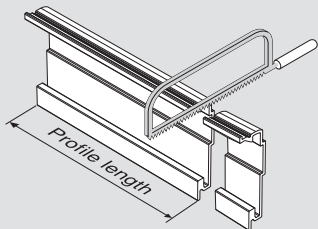
- 3 Attach with four wood screws (606N or 606P) or four system screws (661.1300.HG)



# Horizontal aluminum profile

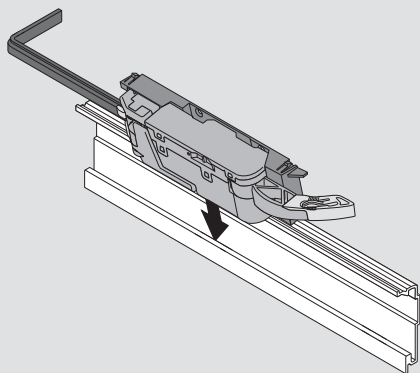
## Calculating horizontal profile size

Profile length = interior cabinet opening minus 19 (3/4")

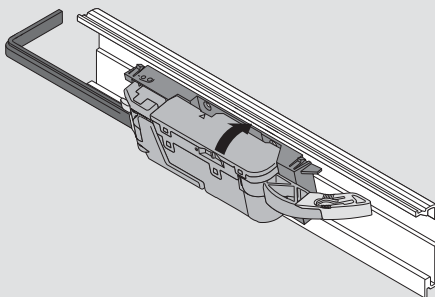


## Installing profile adapter onto horizontal profile

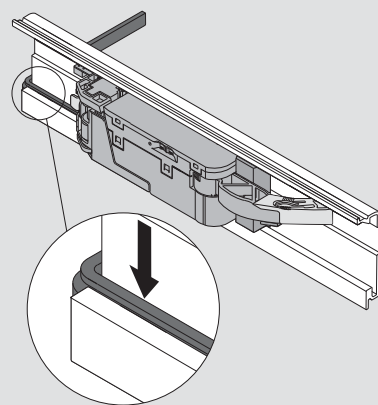
- 1 Place bottom of profile adapter into the bottom slot of profile



- 2 Push top of profile adapter toward the back of the profile and snap into place

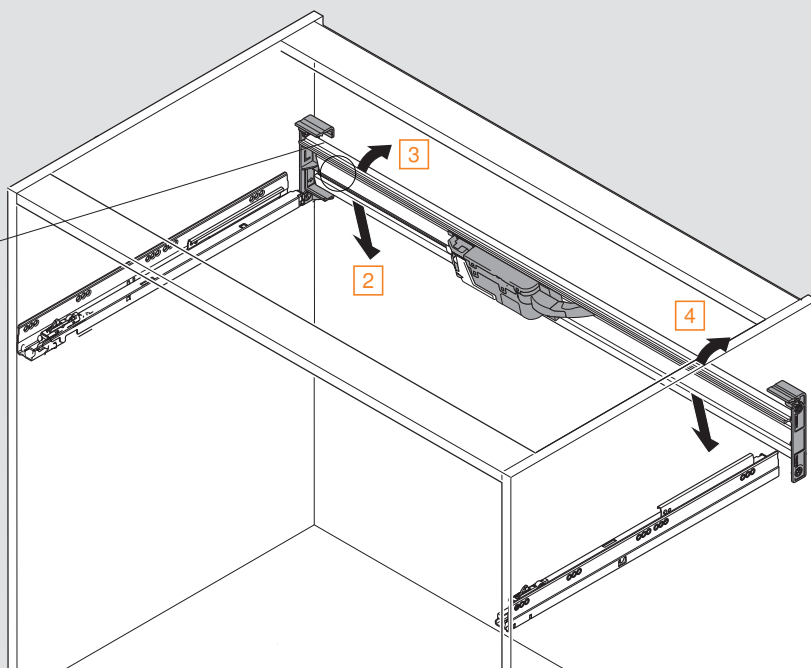
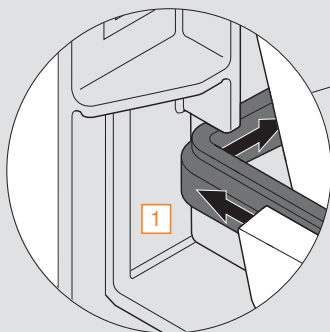


- 3 Align cable along bottom slot of profile



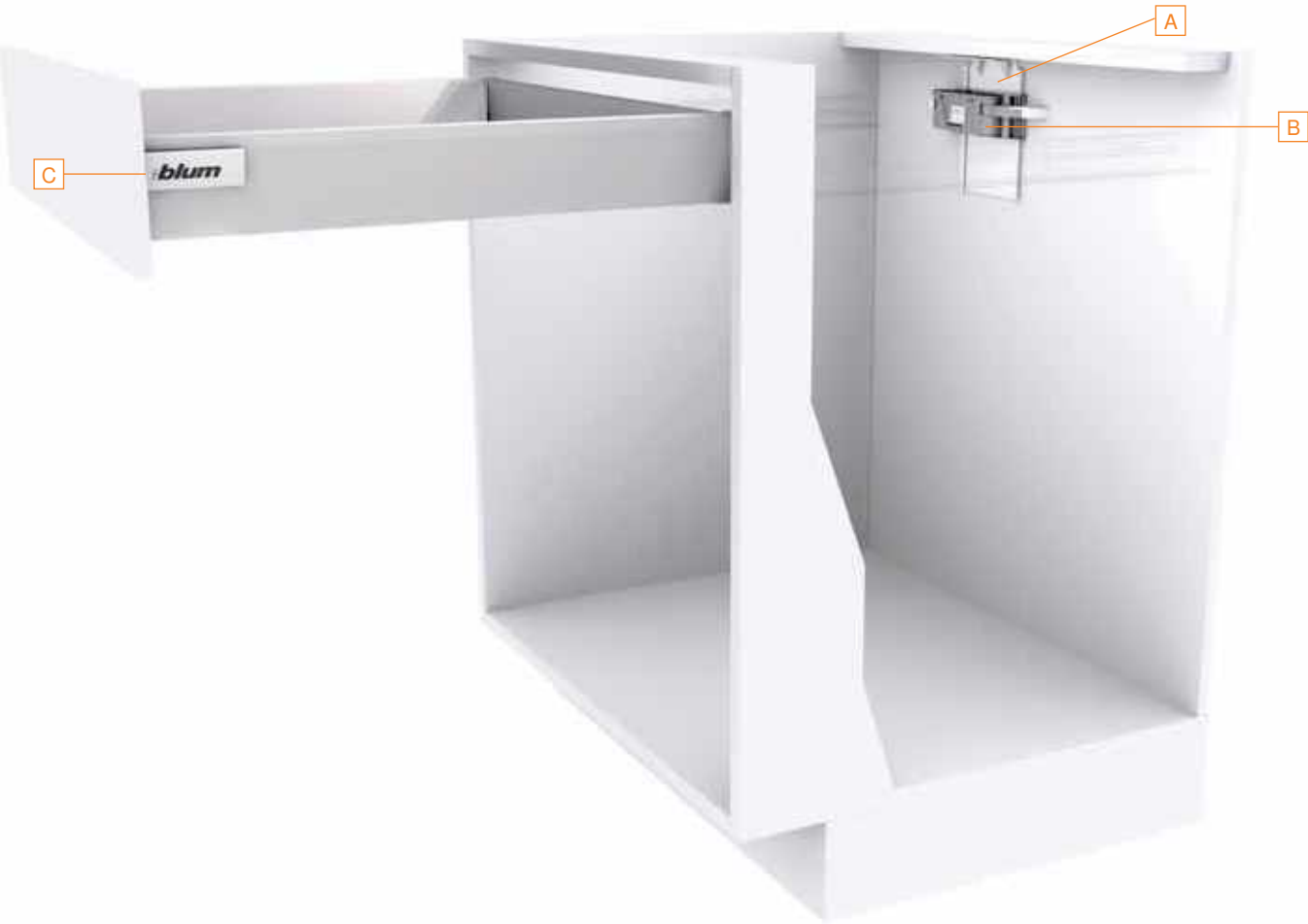
## Installing horizontal profile into adapters

- 1 Slide cable through the notch in the adapter
- 2 Push horizontal profile toward bottom
- 3 Slide profile toward left adapter
- 4 Push top of profile to snap into adapter



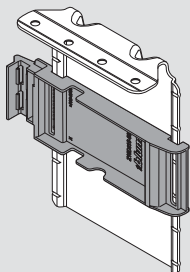
Wiring options pg 61

# TANDEMBOX



### Top bracket with adapter

A

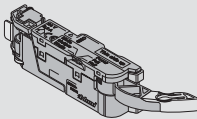


Part no.

Top bracket with adapter	Z10D6252
Installation screw	661.1300.HG

### Drive unit

B



Part no.

Installation	pg 63	Drive unit	Z10A3000.03
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### Blum distance bumper

C Provides 3 (1/8") gap



Part no.

	1	Ø5 mm bumper	993.0531
Specifications	pg 60	2	Screw-on bumper 993.1220

# Top bracket



## Power supply set

### Set includes:

- 19 ft universal cable
- 24 watt power supply
- Wall mount bracket
- Three-prong power cord
- Cable end protector (qty 3)
- INSERTA cable connector
- Cable clips (qty 10)
- Technical information

Part no.

Details

pg 57

Power supply set

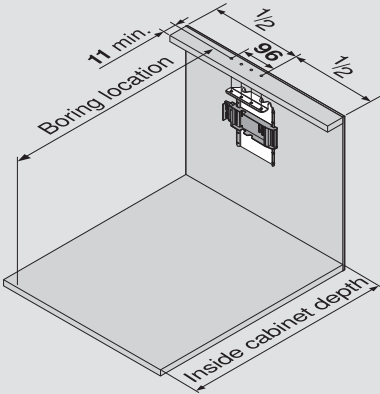
Z10NE03UG10

# TANDEMBOX

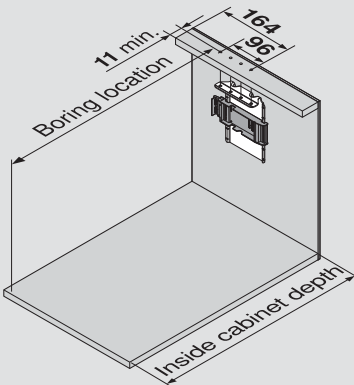
## Specifications

### Space requirements

For opening widths **420** (16-9/16") and wider



For opening widths **275 to 419** (10-13/16" – 16-1/2") wide

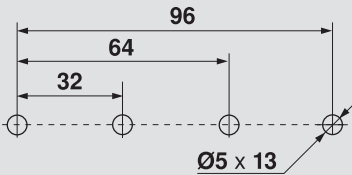


boring location requirements								
profile length	<b>270</b> (10-5/8")	<b>350</b> (13-3/4")	<b>400</b> (15-3/4")	<b>450</b> (17-11/16")	<b>500</b> (19-11/16")	<b>550</b> (21-5/8")	<b>600</b> (23-5/8")	<b>650</b> (25-9/16")
boring location	<b>269</b> (10-9/16")	<b>349</b> (13-3/4")	<b>399</b> (15-11/16")	<b>449</b> (17-11/16")	<b>499</b> (19-5/8")	<b>549</b> (21-5/8")	<b>599</b> (23-9/16")	<b>649</b> (25-9/16")
min. inside cabinet depth	<b>303</b> (11-15/16")	<b>383</b> (15-1/16")	<b>433</b> (17-1/16")	<b>483</b> (19")	<b>533</b> (21")	<b>583</b> (22-15/16")	<b>633</b> (24-15/16")	<b>683</b> (26-7/8")

**NOTE:** 41 (1-5/8") is required between drawer back and back panel

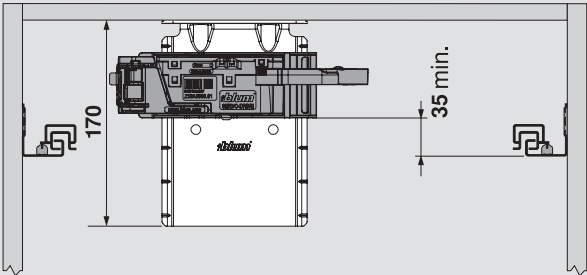
### Boring specifications

#### Top boring pattern



### Positioning the drive unit

One drive unit can be positioned anywhere along the height of the bracket

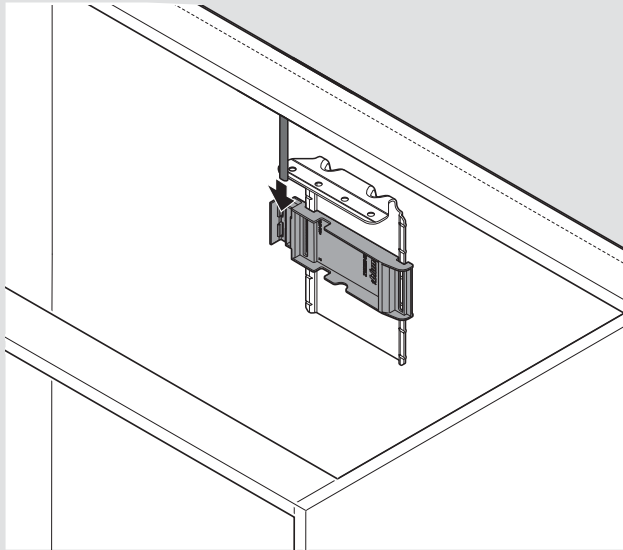




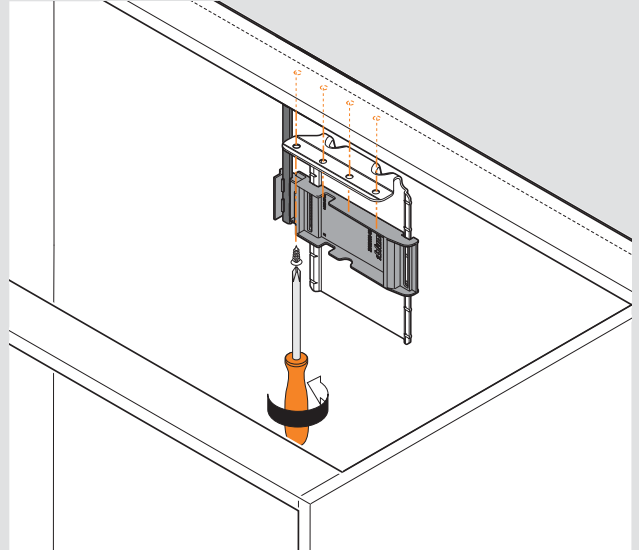
# Top bracket

## Installation of top adapter

1 Feed cable into the drive unit attachment bracket



2 Secure with four system screws (661.1300.HG)



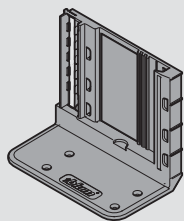
Wiring options pg 61

# TANDEMBOX



## Bottom bracket

A



**NOTE:** 800 (31-1/2") universal cable is included

Part no.

Bottom bracket, double for two drive units

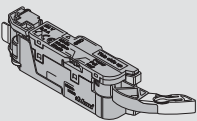
**Z10D7201.01**

Installation screw

**606N or 606P**

## Drive unit

B



Part no.

Installation

pg 63

Drive unit

**Z10A3000.03**

## Blum distance bumper

C Provides 3 (1/8") gap

1



2



Part no.

1 Ø5 mm bumper

**993.0531**

Specifications

pg 60

2 Screw-on bumper

**993.1220**

# Bottom bracket



## Waste/recycle set

### Set includes:

- Adapter plate
- Drive unit (pre-attached)
- Double bottom bracket (additional drive unit can be attached)
- 110v plug-in power supply with six foot cable
- Screw-on distance bumpers (qty 4)
- INSERTA cable connector
- Mounting template and instruction sheet
- All necessary mounting screws are included

Part no.

Details

pg 56

Waste/recycle set

**Z10NA30UGUS**

## Power supply set

### Set includes:

- 19 ft universal cable
- 24 watt power supply
- Wall mount bracket
- Three-prong power cord
- Cable end protector (qty 3)
- INSERTA cable connector
- Cable clips (qty 10)
- Technical information

Part no.

Details

pg 57

Power supply set

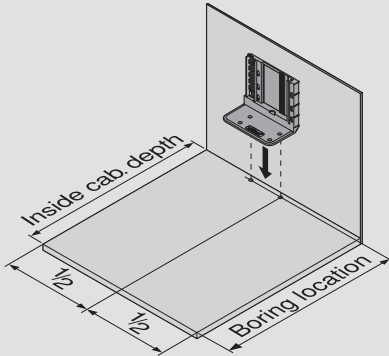
**Z10NE03UG10**

# TANDEMBOX

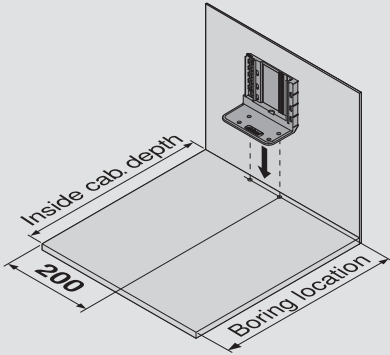
## Specifications

### Space requirements

For opening widths **420** (16-9/16") and wider



For opening widths **275 to 419** (10-13/16" – 16-1/2") wide



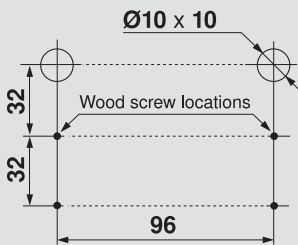
### boring location requirements

profile length	<b>270</b> (10-5/8")	<b>350</b> (13-3/4")	<b>400</b> (15-3/4")	<b>450</b> (17-11/16")	<b>500</b> (19-11/16")	<b>550</b> (21-5/8")	<b>600</b> (23-5/8")	<b>650</b> (25-9/16")
boring location	<b>289</b> (11-3/8")	<b>369</b> (14-1/2")	<b>419</b> (16-1/2")	<b>469</b> (18-7/16")	<b>519</b> (20-7/16")	<b>569</b> (22-3/8")	<b>619</b> (24-3/8")	<b>669</b> (26-5/16")
min. inside cabinet depth	<b>306</b> (12-1/16")	<b>386</b> (15-3/16")	<b>436</b> (17-3/16")	<b>486</b> (19-1/8")	<b>536</b> (21-1/8")	<b>586</b> (23-1/16")	<b>636</b> (25-1/16")	<b>686</b> (27")

**NOTE:** **41** (1-5/8") is required between drawer back and back panel

### Boring specifications

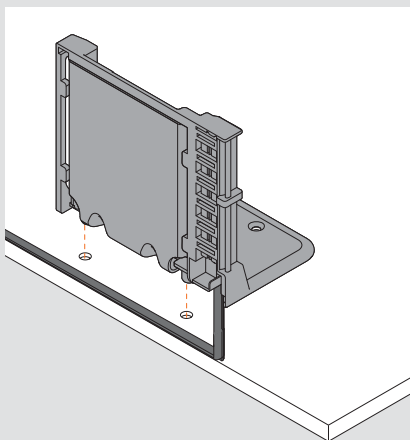
#### Bottom boring pattern



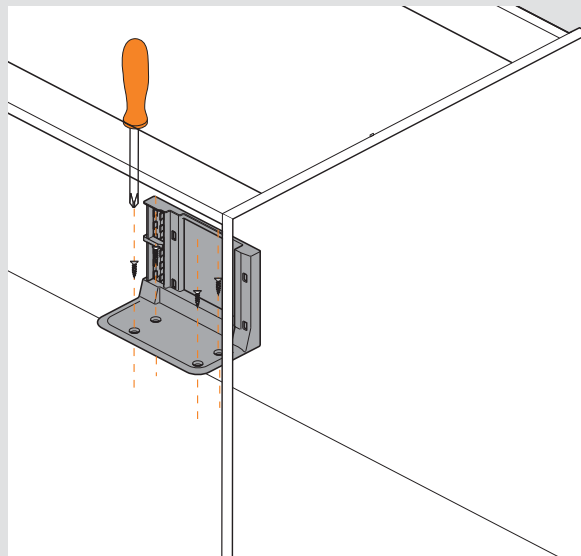
# Bottom bracket

## Installation of bottom bracket

1 Insert locating pins into pre-bored holes

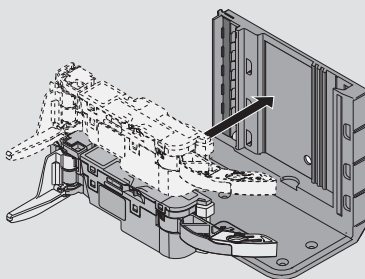


2 Secure with four wood screws (606N or 606P)



## Drive unit attachment

Bottom bracket for attachment of one or two drive units



Wiring options pg 61

# Waste/recycle set

## Everything you need

The waste/recycle set contains all necessary SERVO-DRIVE components for this application including technical information and cardboard boring templates. This makes order processing easy. One part number is all that is required. The installer has everything necessary for installation.

## Easy installation

SERVO-DRIVE is quick and easy to install in waste/recycle applications. In addition, all SERVO-DRIVE components are maintenance free and comply with all safety standards.

For more information and specifications on TANDEM, TANDEMBOX and SERVO-DRIVE waste/recycle sets please see the Waste/recycle set brochure.

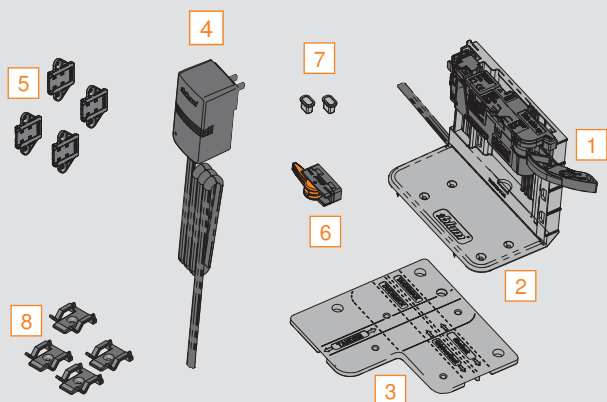
## TANDEMBOX



## TANDEM



## SERVO-DRIVE waste/recycle set



### Set includes:

- 1 Drive unit (pre-attached)
- 2 Double bottom bracket with #6 x 1" wood screws (qty 2)
- 3 Adapter plate
- 4 110 volt plug-in power supply with six foot of universal cable
- 5 Screw-on distance bumpers (qty 4) with #6 x 5/8" wood screws for installation (qty 8)
- 6 INSERTA cable connector
- 7 Cable end protectors (qty 2)
- 8 Cable clips (qty 4)
- Installation template, instructions and user manual

Part no.

SERVO-DRIVE waste/recycle set

**Z10NA30UGUS**

**NOTE:** Power supply will operate up to two drive units in a double bottom bracket application (second drive unit sold separately)



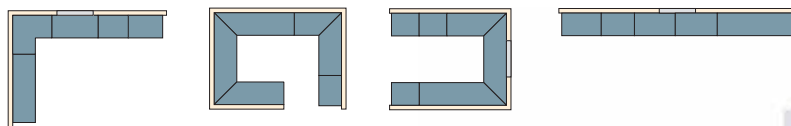
# Power supply set

One or two sets: based on your kitchen layout

One or two power supply sets may be needed depending on your kitchen layout. When the cabinets are placed directly next to each other, one set may be enough. Two sets are required for an island kitchen or a double row "galley" kitchen.

Various kitchen layouts

One power supply set:



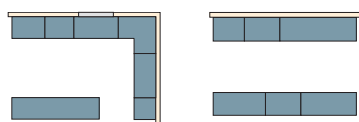
L shaped

G shaped

U shaped

Line

Two power supply sets:

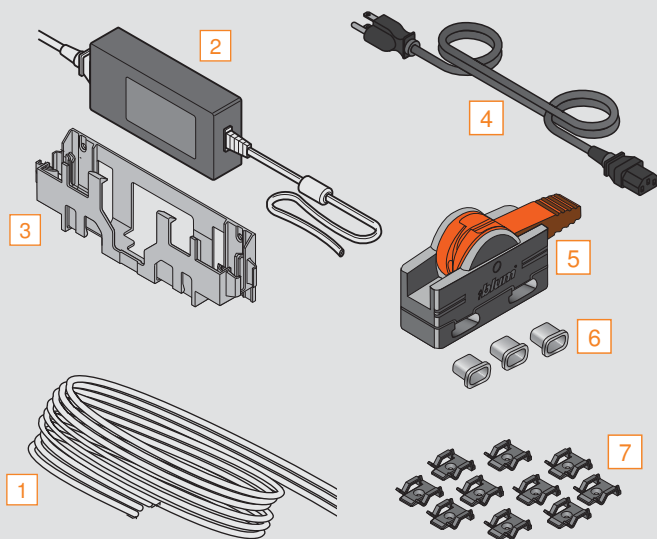


L with island

Galley



## Power supply components



Supplies power to the drive units

Set includes:

- 1 19 ft universal cable
- 2 24 watt power supply
- 3 Wall mount bracket
- 4 Three-prong cord
- 5 INSERTA cable connector
- 6 Cable end protector (qty 3)
- 7 Cable clips (qty 10)
- Installation template, instructions and user manual


Part no.

Power supply set

Z10NE03UG10

# Electrical components

## SERVO-DRIVE power supply

Components		
	Supplies power to the drive units	
	<ul style="list-style-type: none"> <li>Energy Star Level VI</li> <li>UL certified</li> <li>Can power up to 50 drive units</li> <li>Connect to switched GFCI outlet</li> <li>Cable length is six foot</li> </ul>	
	<b>NOTE:</b> Three-prong power cord required Power supply	Part no. <b>Z10NE030G</b>

## Specifications

Input specifications	
Input voltage	100-240 VAC
Input frequency	50-60 Hz
Input current	0.6 A
Inrush current	100 A maximum at 240 VAC
Protection class	Class I
Earth leakage current	3.5 mA maximum

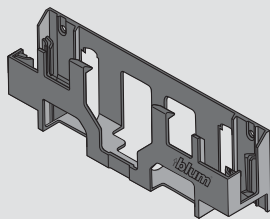
General specifications	
Efficiency	≥ 87%
Switching frequency	65 kHz typical
No load loss (standby)	< 0.075 W
Energy Star	Level VI

Safety / Approvals	
EN / IEC	60950, 60335-1
UL	60950-1

Output specifications	
Output voltage	24 VDC
Output power	24 W continuous
Minimum load	None
Over voltage protection	At 33 VDC
Overload protection	10.5 A hiccup trip and restart mode with auto recovery
Short circuit protection	Continuous

Environmental information	
Operating temperature	32° F to 104° F
Storage temperature	-4° F to 185° F
Protection	IP40

### Wall mount bracket for power supply



Installation **pg 63**

Part no.

Wall mount bracket

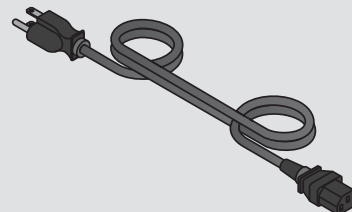
**Z10NG120**

Installation screw

**606N or 606P**

### Power cord with three-prong plug

Must be plugged into a switched GFCI outlet

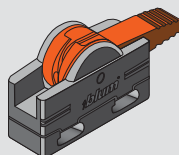


Part no.

Power cord with three-prong plug

**Z10M200U**

### INSERTA cable connector



Installation **pg 62**

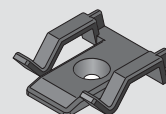
Part no.

INSERTA cable connector

**Z10V1000.01**

### Cable clip

Adhesive back and/or screw-on



Part no.

Cable clip

**Z10K0009**

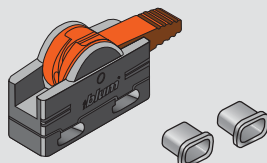
Installation screw

**606N or 606P**

### INSERTA cable connector set

Set includes:

- INSERTA cable connector
- Cable end protector (qty 2)

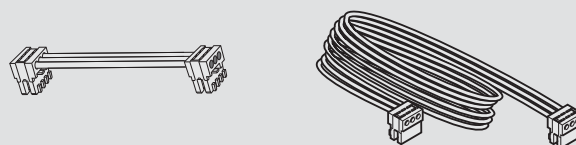


Part no.

Cable connector set

**Z10V100E.01**

### Synchronization cables



Installation **pg 64**

Part no.

**80 (3")** synchronization cable

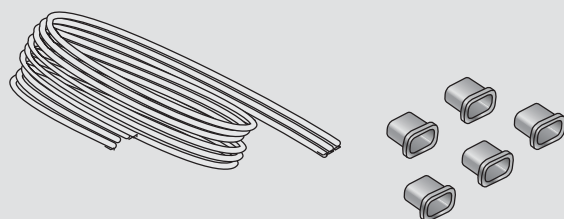
**Z10K008S**

**1200 (4')** synchronization cable

**Z10K120S**

### Universal cable

Length 26 ft with five cable end protectors

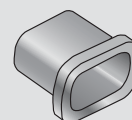


Part no.

Universal cable

**Z10K800AE**

### Cable end protector



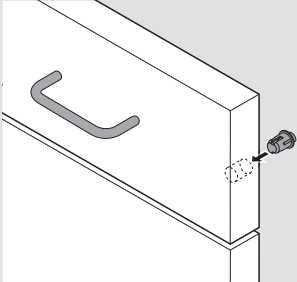
Part no.

Cable end protector

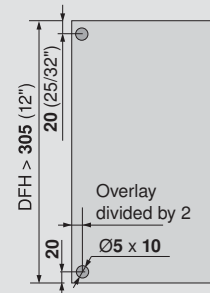
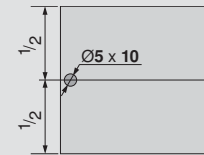
**Z10K0008**

# Distance bumpers

## Drawer front distance bumper



- For drawer heights **305 (12")** or less two distance bumpers are required
- Center bumpers vertically left/right side of drawer front
- For drawer heights **305 (12")** and greater four distance bumpers are required



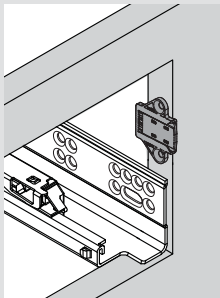
**NOTE:** Blum distance bumpers provide a travel of **3 (1/8")**

Part no.

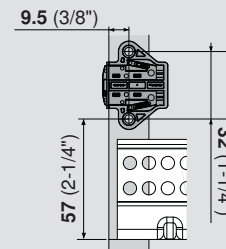
Ø5 mm bumper

**993.0531**

## Screw-on distance bumper



- For use with face frame or panel cabinets
- Can be mounted to side or bottom of cabinet opening
- Pre-bore with Ø2.5 mm drill bit



**NOTE:** Blum distance bumpers provide a travel of **3 (1/8")**

Part no.

Screw-on bumper

**993.1220**

Installation screw

**606N or 606P**

## SERVO-DRIVE locking device with integrated bumper



- Captive right device and self-aligning left device
- Self-adjusting drawer length tolerance
- Minimum inside drawer width **170 (6-11/16")**
- Height adjustment **+3 (1/8")**
- Side adjustment **±1.5 (1/16")**
- Depth adjustment **+2.5 (3/32")**, preset at **0**
- Minimum sub-front thickness **13 (1/2")**
- Designed for **13 (1/2")** drawer bottom recess
- Integrated **3 (1/8")** distance bumper for inset or overlay SERVO-DRIVE applications

Part no.

SERVO-DRIVE locking device, left

**T51.1901.PS L**

SERVO-DRIVE locking device, right

**T51.1901.PS R**

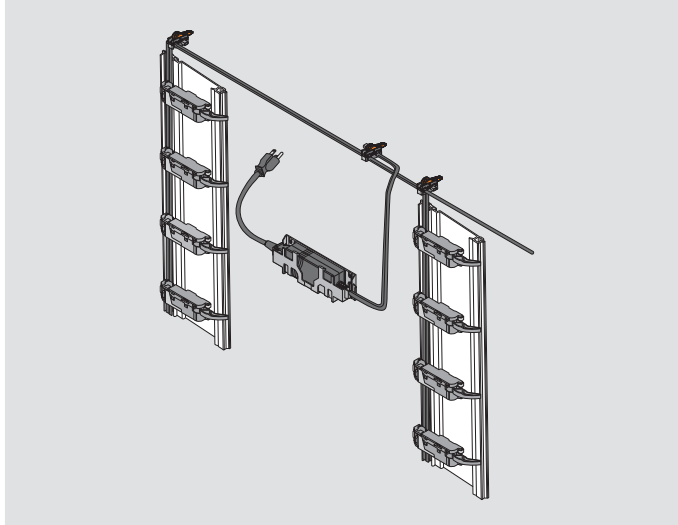
Installation screw

**606N or 606P**

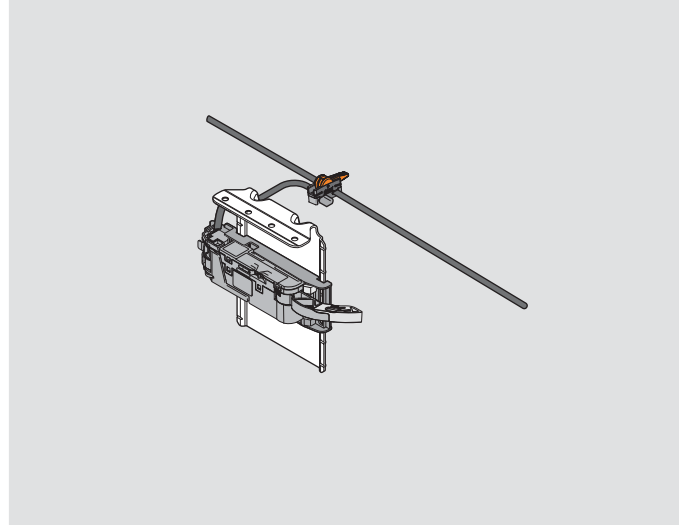
Installation **pg 64**

# Wiring options

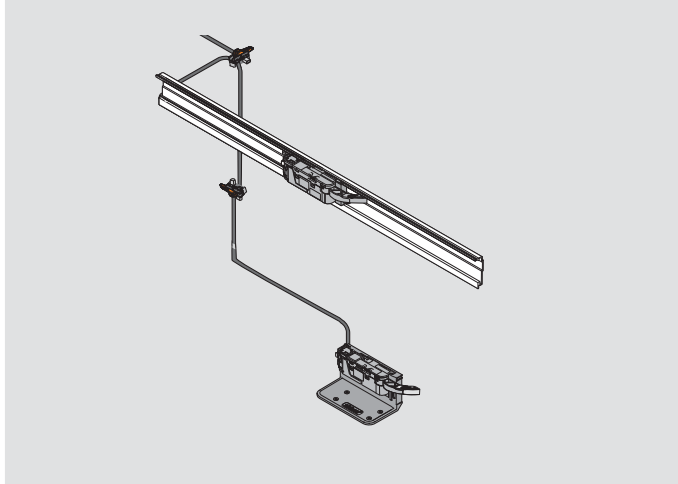
Two base cabinets connected



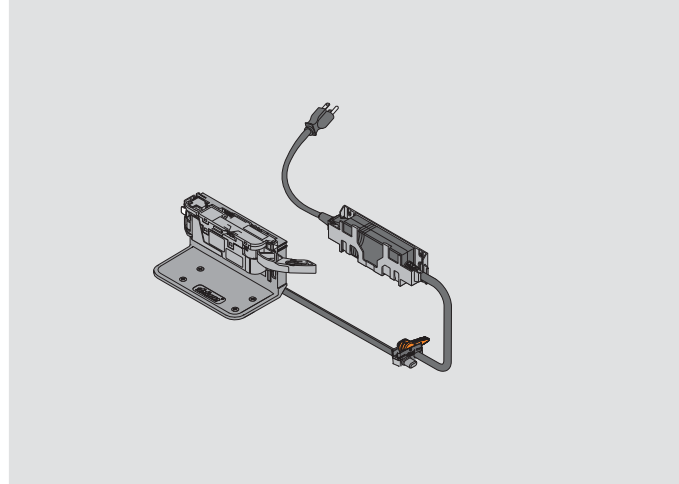
Individual drawer with top bracket



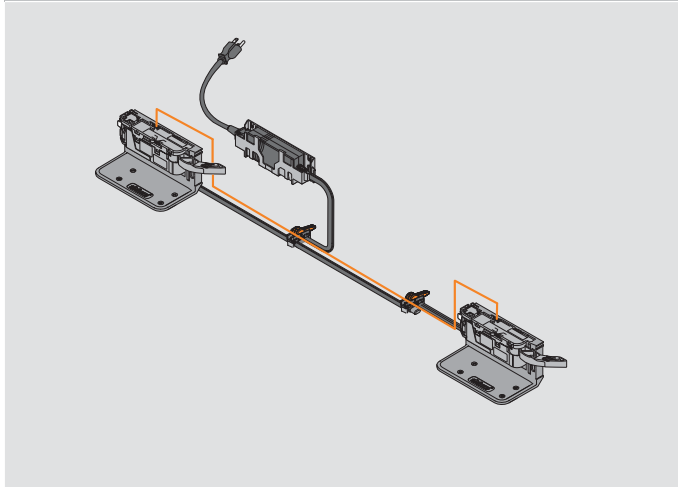
Cabinet with different applications



Bottom drawer with bottom bracket



Two drawers connected with synchronization cable



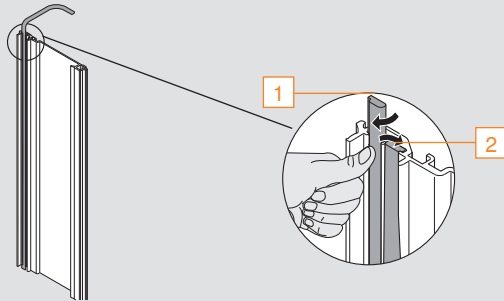
- Required when two drive units should open simultaneously
- Can be used in a variety of applications
- Connects directly to the back of the drive unit
- Available in two different lengths
- Cable color: cream

**NOTE:** Synchronization cable marked in orange

# Assembly/removal

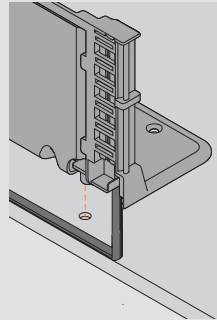
## Installing cable onto vertical profile

- 1 Insert cable for power into the left channel of profile
- 2 Insert cable for communication into the right channel of profile



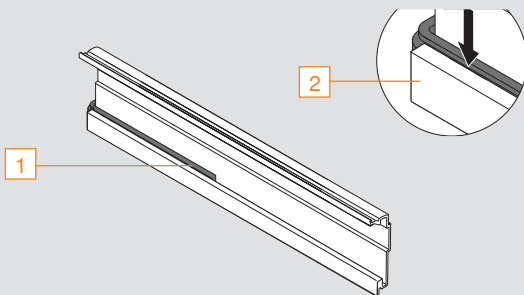
## Installing cable onto bottom bracket

Insert cable from the rear of the bottom bracket



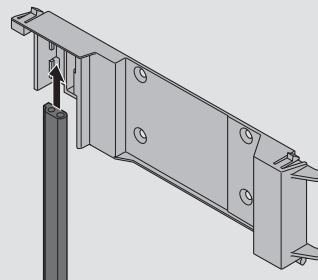
## Installing cable onto horizontal profile

- 1 Insert cable for power into the bottom profile
- 2 Wrap cable behind profile



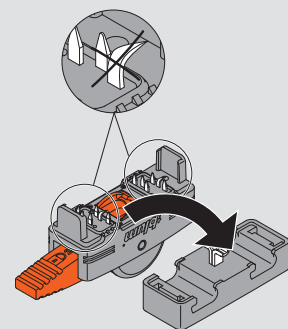
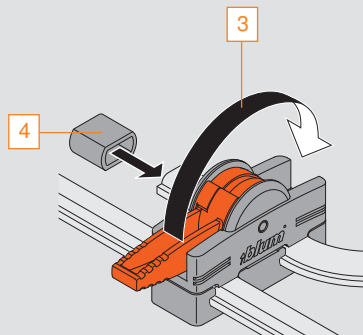
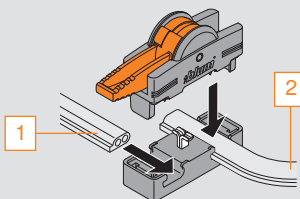
## Installing cable onto horizontal adapter

Insert cable for power into the left channel of adapter



## Installing cable connector

- 1 Insert cable for distribution into open slot
- 2 Insert cable for power into open slot
- 3 Rotate orange lever to lock into place
- 4 Slide cable end protector over exposed cable

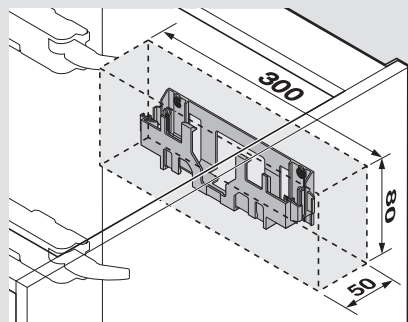


**NOTE:** Ensure piercing pins are not damaged

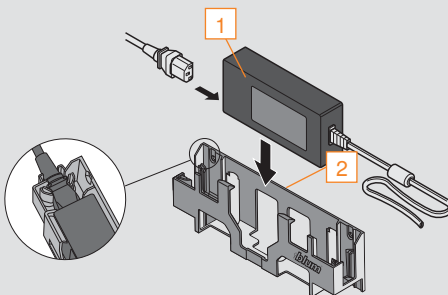


## Installation of power supply

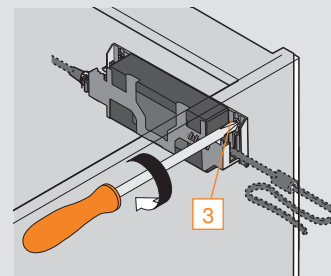
### Minimum space requirements



- 1 Insert power cord into power supply
- 2 Insert power supply into wall mount bracket



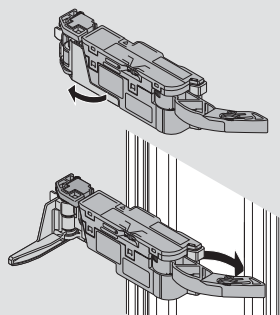
- 3 Attach wall mount bracket with four 606N or 606P screws



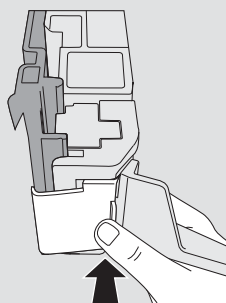
**NOTE:** Power supply can be mounted horizontally or vertically onto back panel

## Drive unit installation

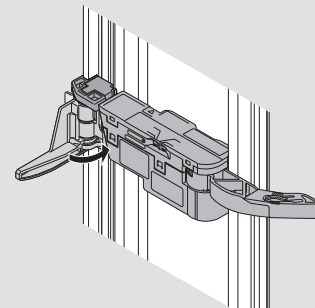
- 1 Open release lever and insert right hand side of drive unit



- 2 Open clip and align onto the profile slot and secure clip

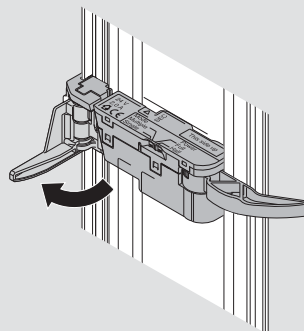


- 3 Close release lever

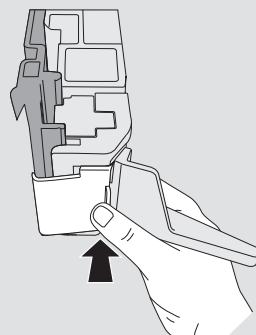


## Drive unit removal

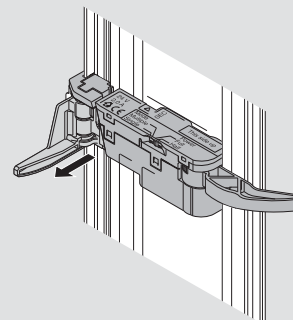
- 1 Open release lever



- 2 Lift up clip



- 3 Pull outward and lift off profile

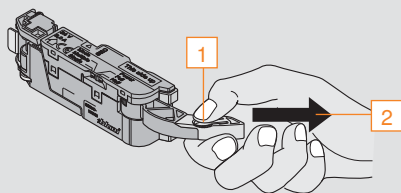


# Assembly/removal

## Lever arm extension

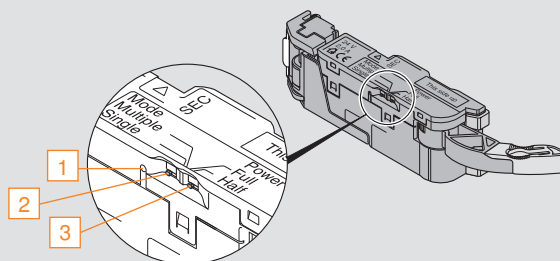
The drive unit comes with the lever arm extension pre-attached. The lever arm extension must be removed for cabinet widths of **305** (12") or less.

- 1 Press release button
- 2 Pull



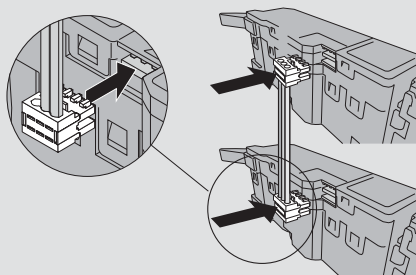
## Drive unit adjustment

- 1 Operating mode display (LED)
- 2 Selector switch mode  
Multiple: when set to "multiple" drive units move simultaneously  
Single: only one drive unit moves (standard setting)
- 3 Selector switch power  
Half: use for very small and/or light drawers  
Full: standard settings for most applications

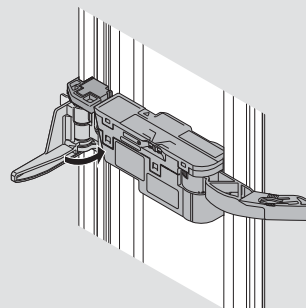


## Installing synchronization cable

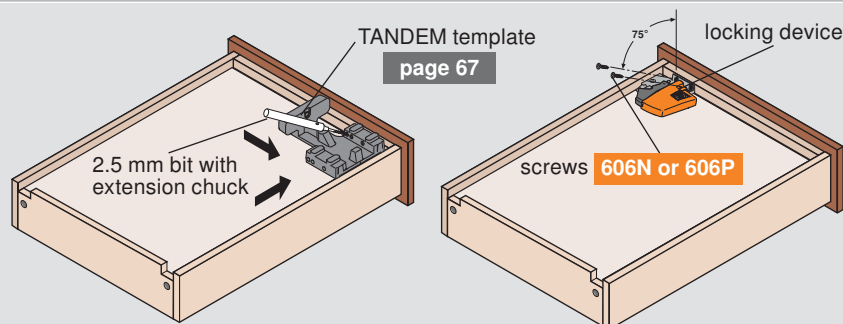
- 1 Insert synchronization cable into back of drive unit



- 2 Reattach drive units



## Installing the SERVO-DRIVE locking device



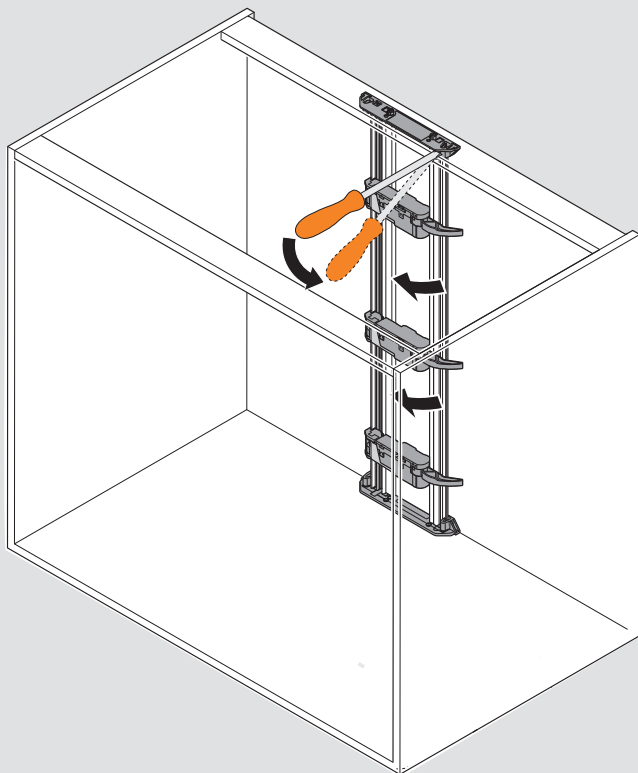
- 1 Position the 2.5 mm drill bit into the extension chuck so that it will bore **10** (13/32") deep
- 2 Place template into the front corner of the drawer
- 3 Bore two holes and repeat on other side
- 4 Attach locking devices with #6 x 5/8" deep thread wood screws (606N or 606P)

The mounting screws must go in at a precise angle and the locking device must fit flush to the drawer bottom to ensure proper function of the complete drawer system

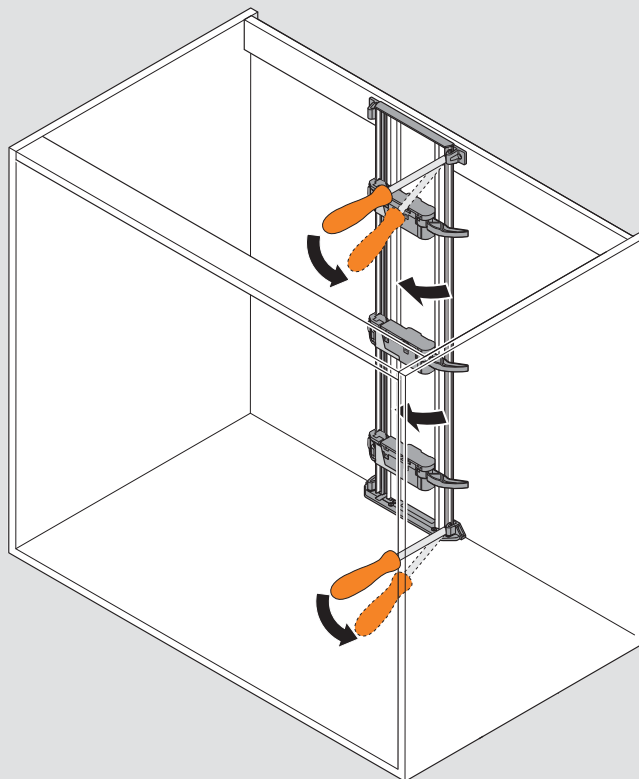
**NOTE:** Using the **T65.1600.01** TANDEM template is highly recommended

**Removing vertical profile from top and bottom adapters**

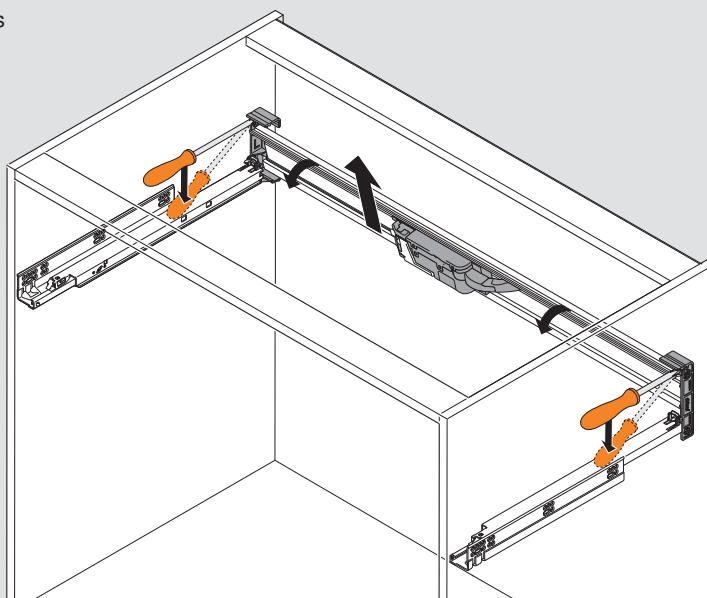
- 1 Use screwdriver to assist in removing right side of adapters
- 2 Remove profile from cabinet

**Removing vertical profile from back and bottom adapters**

- 1 Use screwdriver to assist in removing right side of back adapter
- 2 Remove profile from cabinet

**Removing horizontal profile**

- 1 Use screwdriver to assist in removing profile from adapters
- 2 Remove profile from cabinet



# Assembly aids

## SERVO-DRIVE boring template

### Components



- Used to pre-bore for top and bottom adapters
- Can also be used to pre-bore for bottom bracket
- For use with TANDEM and TANDEMBOX

#### Includes:

- Template
- Instructions

Part no.

SERVO-DRIVE boring template

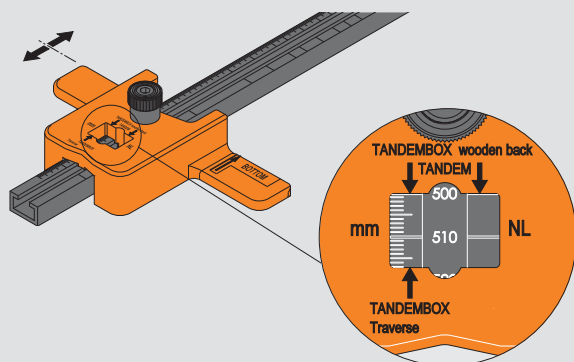
ZML.1150.US

Ø10 mm drill bit

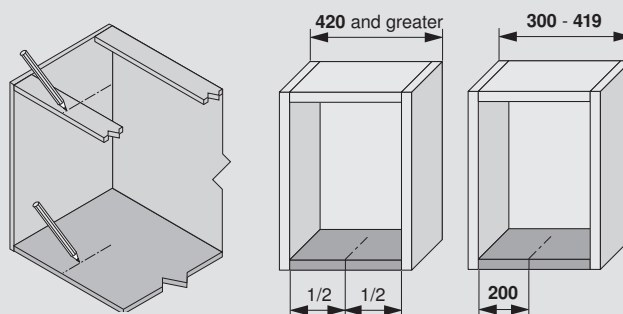
DB-10mm

### Using the SERVO-DRIVE boring template

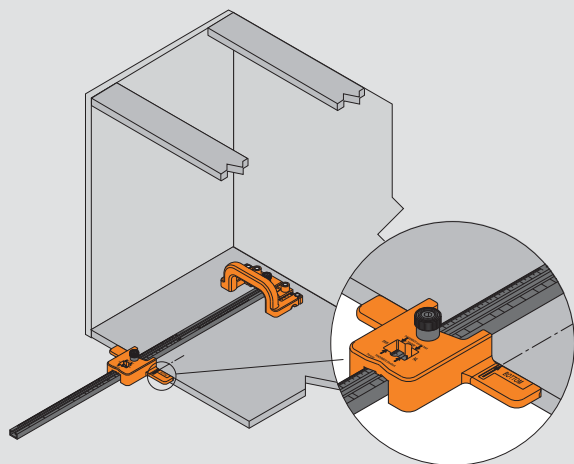
#### 1 Adjust view window to nominal length



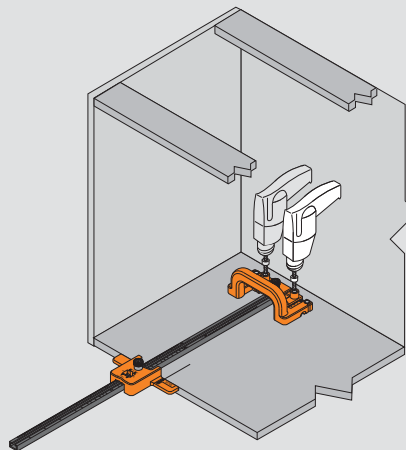
#### 2 Mark center line of cabinet



#### 3 Align positioning arrow with center line



#### 4 Bore two Ø10 mm holes for dowels, repeat for top adapter



## TANDEM template

## Components



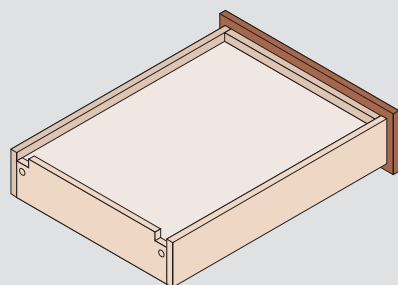
- Essential tool for drawers using TANDEM runners
- To bore the Ø6 mm holes for rear hooks
- Pre-bore Ø2.5 mm hole for TANDEM locking devices at the required angle

Part no.

TANDEM template	<b>T65.1600.01</b>
<b>Accessories</b> (order separately)	
Ø2.5 mm drill bit	<b>DB-2.5mm</b>
Ø6 mm drill bit	<b>DB-6mm</b>
Tool set	<b>T65.9000</b>

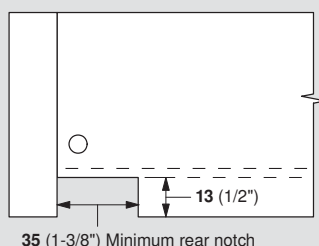
## Rear notching

## Dimensions



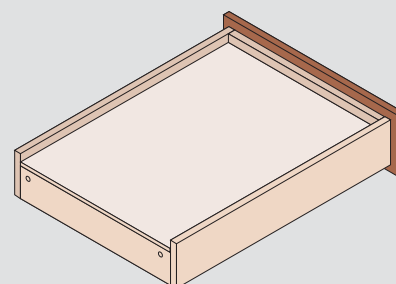
Drawers must be notched in the back to accommodate TANDEM runners

## Rear view



The notches must be flush with the drawer sides and bottom

## Option – no notching

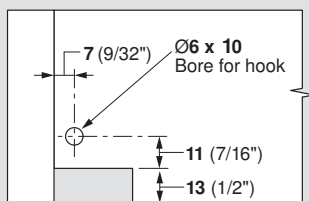


Make the back panel shorter and extend the drawer bottom to the back of the drawer

## Rear boring

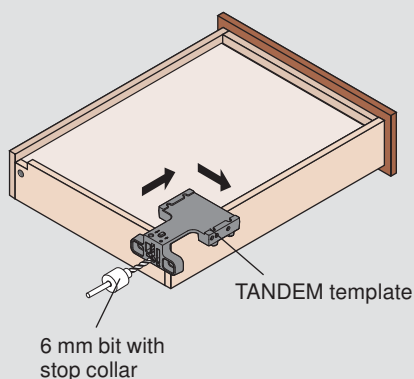
## Dimensions

## Rear view



Drawers require 6 mm holes bored on each side of the back panel to accept the hooks on the back of TANDEM runners

## Boring



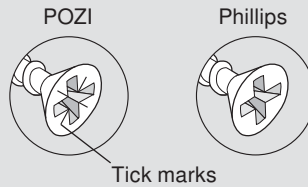
- Place template over the drawer side
- Position template so that the center rib rests against the inside face of the drawer side
- Set stop collar on 6 mm bit so that it will bore 10 (13/32\") deep
- Hold template firmly and bore hole
- Repeat on other side

**NOTE:** Using the **T65.1600.01** TANDEM template is highly recommended

## POZI DRIVER and bits



A POZI screwdriver (different from Phillips) is the most crucial tool you can use to assure that full torque is applied to all Blum POZI mounting screws. POZI screws can be identified by the distinctive "tick" marks located in the center of the screw head recess.



Part no.

#2 POZI DRIVER	<b>POZI DRIVER</b>
1/4" Magnetic bit holder	<b>BIT HOLDER</b>
#2 x 1" POZI bit insert	<b>POZI BIT #2x1</b>
#2 x 2" POZI bit insert	<b>POZI BIT #2x2</b>

## Twist drill bits

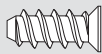


Part no.

Ø2.5 mm, right handed	<b>DB-2.5mm</b>
Ø5 mm, right handed	<b>DB-5mm</b>
Ø6 mm, right handed	<b>DB-6mm</b>
Ø10 mm, right handed	<b>DB-10mm</b>

## Deep thread system screw

Pilot bore Ø5 (3/16") hole



Part no.

#7 x 13 mm, #2 POZI	<b>661.1300.HG</b>
#7 x 11.5 mm, #2 POZI	<b>661.1150.HG</b>

## Deep thread wood screw

Pilot bore Ø2.5 (3/32") hole

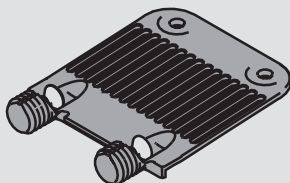


Part no.

#6 x 5/8", #2 Phillips	<b>606N</b>
#6 x 5/8", #2 POZI	<b>606P</b>

## TANDEMBOX front stabilization bracket

For use on tall fronted drawers using SERVO-DRIVE

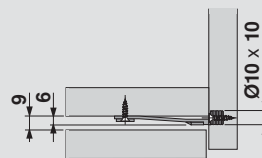


Part no.

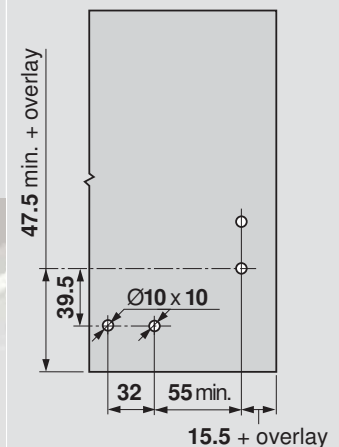
Front stabilization bracket	<b>Z96.10E1</b>
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## Front stabilization bracket application

### Space requirements



### Front boring dimensions





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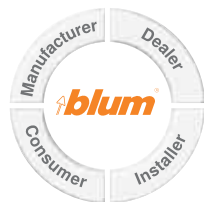
# Why choose Blum



Blum, Inc. is a leading manufacturer of functional hardware for the kitchen cabinet and commercial casework industries specializing in lift systems, concealed hinges and drawer runner systems. Virtually all of the hardware needed to assemble and make cabinets functional is available within the wide range of quality Blum products. Blum supports the U.S. market with a network of more than 150 dependable distributors, 40+ knowledgeable Blum sales representatives and an experienced customer service department.

## Commitment to manufacturing in the U.S.

Blum manufactures many of its products in our 450,000 sq ft manufacturing, logistics and warehouse facility located in Stanley, North Carolina. Manufacturing closer to the customer allows Blum to react quickly to changing customer needs including unexpected surges in demand. Customer pickups and deliveries can be timed to better match their production schedules. Blum is committed to manufacturing in the U.S. for the U.S. market.



Product development at Blum considers all of the various customers who will come in contact with our products. With this "Global Customer Benefits" philosophy we strive to create advantages for all users.



Blum, Inc. is ISO 9001 certified which means that you are assured of consistent quality in every Blum product. They exceed the requirements of ANSI/BHMA standards for cycle life, static load and self-closing performance.



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