# How to Add Blum SERVO-DRIVE to an AVENTOS Lift

Doors, Drawers & Fronts. US catalog, in inches and millimeters. Updated November 2026.

SERVO-DRIVE is Blum's electric opening and closing system for AVENTOS lift fronts: you press a button and the front moves, so nobody has to reach up to pull a high front closed. This guide lists the parts to order by Blum part number, the switch and bumper holes, the power supply space and the order of work, for the HK top, HS top, HL top and HF top lifts.

## SERVO-DRIVE for AVENTOS at a glance

| | |
|---|---|
| Fits These Lifts | AVENTOS HK top, HS top, HL top and HF top |
| Drive Unit | One drive unit comes in the set and attaches to the left lift mechanism without tools |
| Switch Hole | Ø35 mm (about 1-3/8 in) hole, 11 mm (about 7/16 in) deep, the center 12 mm (about 15/32 in) from the panel edge |
| Bumper Holes | Ø5 mm (about 3/16 in) (or Ø8 mm (about 5/16 in)), 8 mm (about 5/16 in) from the edges, at least 10 mm (about 13/32 in) deep |
| Power Supply Space | At least 360 mm (about 14-3/16 in) x 150 mm (about 5-29/32 in) x 75 mm (about 2-31/32 in) on the cabinet top panel, with 30 mm (about 1-3/16 in) of air around the unit |
| Switches | Up to six switches per drive unit; each switch pairs with one drive unit |
| Power Supply Rule | Only one power supply unit on each distribution cable |

*From Blum AVENTOS catalog p.9, 70, 69; Blum SERVO-DRIVE assembly page; Blum SERVO-DRIVE sheet p.4.*

## Who this guide is for

Anyone fitting SERVO-DRIVE to a new or existing AVENTOS HK top, HS top, HL top or HF top cabinet, by hand or with simple jigs. A lift front flips up and ends high, and many people cannot reach it to pull it down, which is the reason to add a button. Install and balance the lift first, using the guide for your lift.

## What you need

Order the SERVO-DRIVE set for your lift, the cover cap set that carries the SERVO-DRIVE switches and bumpers, and one of the two power supply options.

| Blum Part Number | What It Is | How Many | Your Choice |
|---|---|---|---|
| 23.A000 | SERVO-DRIVE set for AVENTOS HF top, HS top and HL top: drive unit, 1500 distribution cable, connecting node, 2 cable end protectors | 1 set (see the note under the table) | The drive unit is dust gray (R7037) |
| 23KA000 | SERVO-DRIVE set for AVENTOS HK top: drive unit, distribution cable, connecting node, 2 cable end protectors | 1 set (see the note under the table) | The drive unit is dust gray (R7037) |

| | | | |
|---|---|---|---|
| 23.8000 | Cover cap set for SERVO-DRIVE on HF top, HS top and HL top: left and right caps, 2 branding elements, 2 switches, 6 distance bumpers Ø5 | 1 set | Dark gray (TGR), Silk white (SW) or Light gray (HGR) |
| 23K8000 | Cover cap set for SERVO-DRIVE on HK top: 2 switches, 2 distance bumpers Ø5, caps | 1 set | Dark gray (TGR), Silk white (SW) or Light gray (HGR) |
| Z10NE04UG22 | Power supply set, option 1: power supply unit, wall mount bracket, three-prong power cord, cable connector, 3 cable end protectors, 10 cable clips, 19 ft universal cable | 1 per distribution cable | |
| Z10NA40UG | SERVO-DRIVE uno plug-in power supply unit, option 2: for one drive unit, 1120 cable, distribution cable extendable to a maximum of 2000 | 1 for one drive unit | |
| Z10NG120 | Power supply unit housing, nylon, fixed to the panel | see the maker's instructions | |
| 23P5020 | Extra switch: up to six switches can be added per drive unit | Optional | |
| 23P5216 | Switch adapter for face frame and frameless cabinets: no boring into the side of the cabinet | Optional, instead of boring the switch hole | |
| Z10K800AE | Distribution cable, 8 m, with 5 end protectors, for cutting to size | Optional, when the supplied cable is too short | |
| Z10V100E.01 | Connecting node with 2 end protectors | Optional | |
| Z10K0009 | Cable holder | see the maker's instructions | |

*From Blum AVENTOS catalog p.13, 23, 31, 39, 69, 12, 22, 30, 38. Finishes and colors are your choice; the table names them as Blum prints them.*

Blum's note under the SERVO-DRIVE sets: for three lift mechanisms or more, Blum recommends two synchronized drive units.

## Jigs and tools that make it easier

SERVO-DRIVE needs a switch hole and bumper holes, and Blum makes a template for each. The lift's own jigs are in the guide for your lift.

| Blum Part Number | Jig or Tool | What It Does Here |
|---|---|---|
| M31.2000 | Drilling template for the SERVO-DRIVE switch | Marks and guides the Ø35 switch hole for a hand drill. |

| | | |
|---|---|---|
| ZML.1090 | Drilling template for the Blum distance bumper | Marks the bumper holes. Blum lists it in its 2025 assembly aids brochure rather than in the 2026 catalog. |

*From Blum AVENTOS catalog p.67; Blum assembly aids brochure p.14.*

If you cut on a CNC router, you can drill these same positions from your own cut file, so the jigs here are for building by hand.

## Space, counts and limits

These are the limits Blum prints for SERVO-DRIVE, quoted in Blum's own words where they matter for safety.

**Back Cabling Hole, Ø10**

| Lift | Cabinet Height | X | Y |
|---|---|---|---|
| AVENTOS HF top | 480 mm (about 18-29/32 in) to 519 mm (about 20-7/16 in) | 38.5 mm (about 1-17/32 in) | 102 mm (about 4-1/32 in) |
| AVENTOS HF top | 520 mm (about 20-15/32 in) to 1219 mm (about 48 in) | 38.5 mm (about 1-17/32 in) | 124 mm (about 4-7/8 in) |
| AVENTOS HS top | any | 38.5 mm (about 1-17/32 in) | 45 mm (about 1-25/32 in) |
| AVENTOS HL top | any | 38.5 mm (about 1-17/32 in) | 71 mm (about 2-25/32 in) |

*X and Y are the two distances drawn in the detail on Blum's page 70, from the edges drawn there. For HK top, Blum draws the hole without a figure, so this guide prints none. From Blum AVENTOS catalog p.70.*

Blum prints: "Only one SERVO-DRIVE power supply unit can be connected to each SERVO-DRIVE distribution cable!"

Blum prints: "A safety distance of 30 mm must be maintained for air circulation (see graphic); otherwise, there is a risk that the SERVO-DRIVE power supply unit or SERVO-DRIVE plug-in power supply unit could overheat." The plug-in unit measures 130 mm (about 5-1/8 in) high, 84 mm (about 3-5/16 in) wide and 69 mm (about 2-23/32 in) deep.

The plug-in power supply unit Z10NA40UG is suitable for one drive unit. A switch can be synchronized to one drive unit only.

Distance bumpers go in without glue, and a bumper must not touch the SERVO-DRIVE switch. On an HK top, Blum says not to put a bumper in the upper third. Blum also says a trial application must be carried out when fixing to the door.

### Worked example. How far the switch bore breaks out of the panel edge

The switch bore is Ø35, so its radius is half of that, and its center is 12 from the panel edge.

1. Radius = 35 / 2 = 17.5

2. Breakout past the edge = radius - center distance = 17.5 - 12 = 5.5

**The bore opens through the edge of the panel by 5.5 mm (about 7/32 in), so the hole is cut as an edge bore, not a closed circle.**

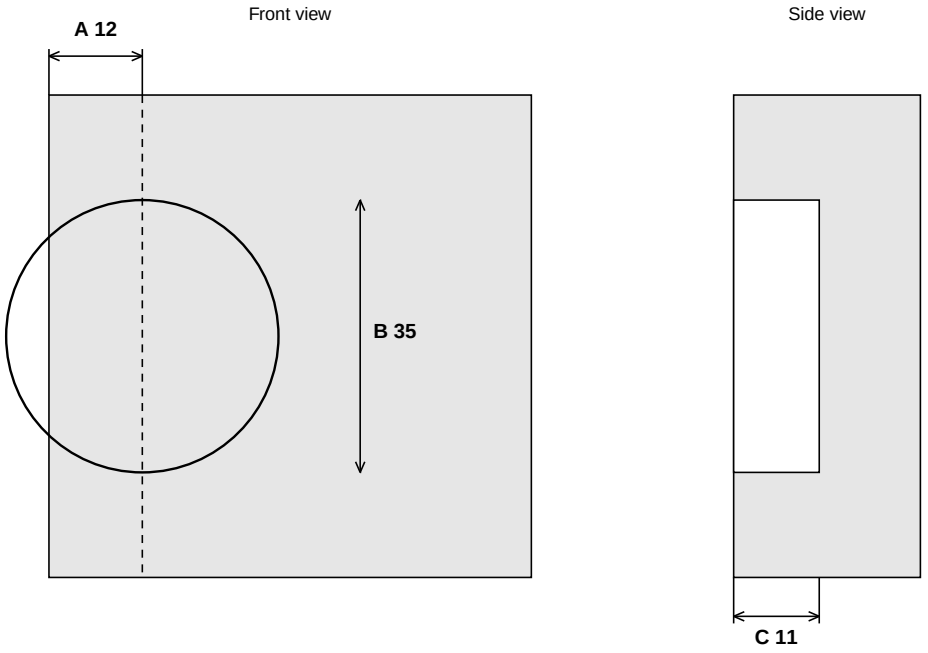
This is arithmetic from Blum's two printed figures, not a figure Blum prints.

*From Blum SERVO-DRIVE sheet p.4.*

## Drawings and positions

Every drawing below is ours, drawn to scale from the figures Blum prints and named with its source page. The letter on a dimension line points to the table under the drawing.

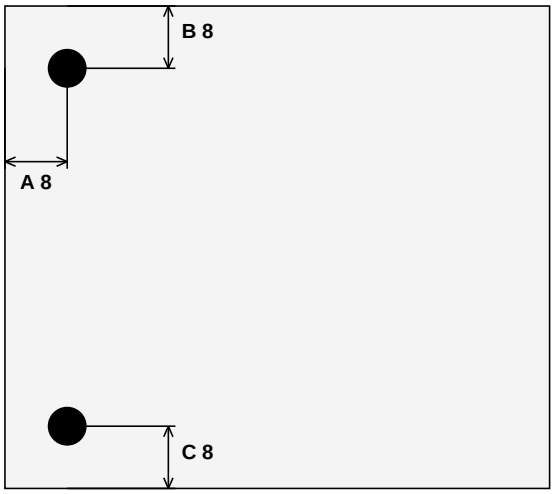
## The SERVO-DRIVE switch bore




*Drawn by CabDesign after Blum SERVO-DRIVE for AVENTOS sheet cme90761, p.4. The 12 is measured from the panel edge to the center of the bore. The side view is not to scale in thickness.*

| Letter | Figure | In Inches | What It Measures |
|---|---|---|---|
| A | 12 mm | about 15/32 in | Panel edge to the center of the bore, plus or minus 0.3 mm (about 0 in) |
| B | 35 mm | about 1-3/8 in | Bore diameter |
| C | 11 mm | about 7/16 in | Bore depth, plus 0.5 mm (about 1/32 in) and minus 0 |

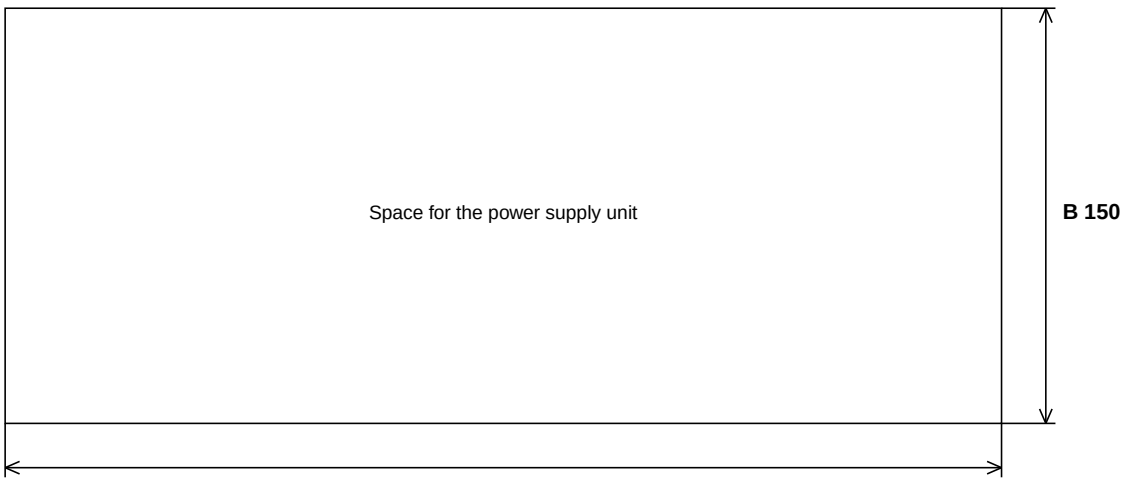
## Distance bumper holes along the edge of a front




*Drawn by CabDesign after Blum SERVO-DRIVE for AVENTOS sheet cme90761, p.4. Only part of the front is drawn. Blum's planning page for your lift gives the bumper count and place.*

| Letter | Figure | In Inches | What It Measures |
|---|---|---|---|
| A | 8 mm | about 5/16 in | Front edge to the center of a bumper hole |
| B | 8 mm | about 5/16 in | Top edge to the center of the upper hole |
| C | 8 mm | about 5/16 in | Bottom edge to the center of the lower hole |

**The power supply space on the cabinet top panel**




*Drawn by CabDesign after Blum AVENTOS catalog cme106254, p.70. The space is 75 mm (about 2-31/32 in) high. Keep 30 mm (about 1-3/16 in) of air around the unit, as Blum says.*

| Letter | Figure | In Inches | What It Measures |
|---|---|---|---|
| A | 360 mm | about 14-3/16 in | Space length |
| B | 150 mm | about 5-29/32 in | Space width |

## Steps, in order

1. Install and balance the lift first. Fit the AVENTOS lift and balance the front as the guide for your lift describes. Blum notes that SERVO-DRIVE is easy to install as long as the front is balanced.

2. Bore the switch hole, or choose the adapter. Drill the Ø35 mm (about 1-3/8 in) switch hole 11 mm (about 7/16 in) deep, with its center 12 mm (about 15/32 in) from the panel edge, using template M31.2000 if you have it. Press the switch in by hand: Blum's sheet crosses out a mallet. To avoid boring the cabinet side, fit switch adapter 23P5216 instead.

3. Drill the bumper holes. Drill Ø5 mm (about 3/16 in) holes (or Ø8 mm (about 5/16 in)), 8 mm (about 5/16 in) from the edges and at least 10 mm (about 13/32 in) deep, as the drawing shows. Press in Blum distance bumpers without glue. A bumper must not touch the switch, and on an HK top none goes in the upper third.

4. Fit the drive unit. Attach the drive unit to the left lift mechanism. Blum says this needs no tools.

5. Lay the cable. Run the distribution cable, fit the connecting node and the cable end protectors, and hold the cable with cable holders where it needs holding. If the cable leaves through the back of the cabinet, drill the Ø10 back cabling hole at the figures Blum prints for your lift.

6. Mount the power supply unit. Fix the power supply unit in its housing on the cabinet top panel, in a space of at least 360 mm (about 14-3/16 in) x 150 mm (about 5-29/32 in) x 75 mm (about 2-31/32 in), and keep 30 mm (about 1-3/16 in) of free air around it. Connect only one power supply unit to each distribution cable.

7. Plug in and pair each switch. Plug in the power supply. Blum shows the pairing of each switch to its drive unit in pictures only, on pages 15 and 16 of its SERVO-DRIVE sheet, so follow those pictures.

8. Run the reference run. With the front open, start the reference run as Blum's troubleshooting page describes (the Reset Motion or Start key) and leave the front alone until it finishes. Blum says there must be no manual intervention during all subsequent motion.

9. Snap on the covers. Snap on the SERVO-DRIVE cover caps. If you later change the lift adjustment or fit an opening angle stop, run the reference run again.

## Check before you finish

- Every bumper is in place, pressed in without glue, and none touches the switch.
- Each switch is paired to one drive unit.
- Only one power supply unit is connected to each distribution cable.
- There is 30 mm (about 1-3/16 in) of free air around the power supply unit.
- The reference run was done last, after every lift adjustment and after any opening angle stop was fitted.

## Common mistakes

- Hammering the switch in. Blum's sheet shows a mallet crossed out. Press the switch in by hand.
- A bumper that touches the switch. Blum's note says the distance bumper should not touch the SERVO-DRIVE switch.
- Rigid or misplaced bumpers. Blum's troubleshooting page lists the bumpers and their position first when the front does not run as it should.
- Boxing in the power supply unit. Blum warns that without 30 mm (about 1-3/16 in) of air the power supply unit could overheat.
- Two power supply units on one cable. Only one power supply unit can be connected to each distribution cable.
- Changing the lift after the reference run. A later change to the lift adjustment, or an opening angle stop fitted afterward, makes the reference run wrong. Run it again.

*From Blum SERVO-DRIVE sheet p.4; Blum SERVO-DRIVE troubleshooting page; Blum AVENTOS catalog p.70.*

Check your numbers: Enter your cabinet and door in inches or millimeters, and the Blum AVENTOS Calculator gives the part, its power factor and every hole, each cabinet figure measured from Blum's own line and from the side's top edge. Open the Blum AVENTOS Calculator at cabdesign.app/modules/blum-aventos-calculator/blum-aventos-calculator.

## What Blum's sheet decides

These details are not published in the Blum documents this guide is written from, so this guide leaves them out. Read them on Blum's own sheet for your part.

- The watts or amps of the power supply units.
- How many drive units one power supply unit carries.
- The height of the switch on the front or the panel.
- The pairing steps in words: the current Blum sheet shows them in pictures only.
- The position of the back cabling hole on an HK top.
- The bumper count and place for each lift: Blum's planning page for your lift gives them.

## Frequently asked questions

### Which AVENTOS lifts can take SERVO-DRIVE?

The AVENTOS HK top, HS top, HL top and HF top. The HK top takes set 23KA000, and the other three take set 23.A000.

### How big is the SERVO-DRIVE switch hole?

The bore is Ø35 mm (about 1-3/8 in) and 11 mm (about 7/16 in) deep, with its center 12 mm (about 15/32 in) from the panel edge. Blum's alternative is switch adapter 23P5216, which needs no boring into the side of the cabinet.

### Why add SERVO-DRIVE to a lift front?

A lift front flips up and ends high, and many people are too short to reach it and pull it down. With SERVO-DRIVE a button on the cabinet closes it.

### How many drive units do three lift mechanisms need?

For three lift mechanisms or more, Blum recommends two synchronized drive units. Check Blum's own sheet for anything beyond that.

### Do I need a jig for the holes?

You can mark the holes with a ruler, but Blum makes template M31.2000 for the switch hole and ZML.1090 for the bumper holes.

### Why does the front need a reference run?

The drive learns the front's travel during the reference run. Blum says to repeat it after any change to the lift adjustment or after fitting an opening angle stop.

## How CabDesign picks and sizes this

CabDesign sizes the AVENTOS lift under your SERVO-DRIVE. For a lift-up front it reads the same printed Blum tables used in the guide for your lift, picks the lift, and puts the Blum part numbers it prints on the project's buy list.

Size it the same way in the Designer: pick a lift-up front, enter the door weight, and the Designer reads the same printed tables. Open the Designer at cabdesign.app.

## Keep reading

- How to Install a Blum AVENTOS HK Top Stay Lift: cabdesign.app/guides/doors-drawers-fronts/install-blum-aventos-hk-top

- How to Install a Blum AVENTOS HS Top Up-and-Over Lift: cabdesign.app/guides/doors-drawers-fronts/install-blum-aventos-hs-top

- How to Install a Blum AVENTOS HL Top Parallel Lift: cabdesign.app/guides/doors-drawers-fronts/install-blum-aventos-hl-top

- How to Install a Blum AVENTOS HF Top Bi-Fold Lift: cabdesign.app/guides/doors-drawers-fronts/install-blum-aventos-hf-top

## Sources and references


- Blum AVENTOS catalog cme106254, LIT.AVT1001.08.26, blum.com/file/cme106254_ep_dok_bus (part numbers, space and back cabling)

- Blum SERVO-DRIVE for AVENTOS sheet cme90761, blum.com/file/cme90761_ma_dok_bau (switch and bumper bores)

- Blum assembly aids brochure cme205127, blum.com/file/cme205127_ep_dok_bus (drilling templates)

- Blum US SERVO-DRIVE for AVENTOS assembly page, blum.com/us/en/products/motion-technologies/servo-drive/servo-drive-aventos/assembly/ (drive unit and balance)

- Blum US SERVO-DRIVE troubleshooting page, blum.com/us/en/landingpages/products/servo-drive/troubleshooting/ (bumpers and the reference run)



AVENTOS, SERVO-DRIVE, TIP-ON and BLUMOTION are names of Blum. This guide is independent: it is written by CabDesign and Blum has not reviewed it.


Blum's own instructions win if they differ, and Blum may change its parts without notice.

A CabDesign guide. This guide on the web: cabdesign.app/guides/doors-drawers-fronts/install-blum-servo-drive-aventos