Servo Drive - Introduction

Servo Drive is an electrical drive system, for TANDEMBOX drawers, which is triggered when pushing or pulling the drawer front. User friendly and simple to install, Servo Drive represents the next evolution of kitchen design. Combining the silent and effortless closing action of BLUMOTION, with the opening support of Servo Drive, offers the end user superior function and quality in their kitchen.

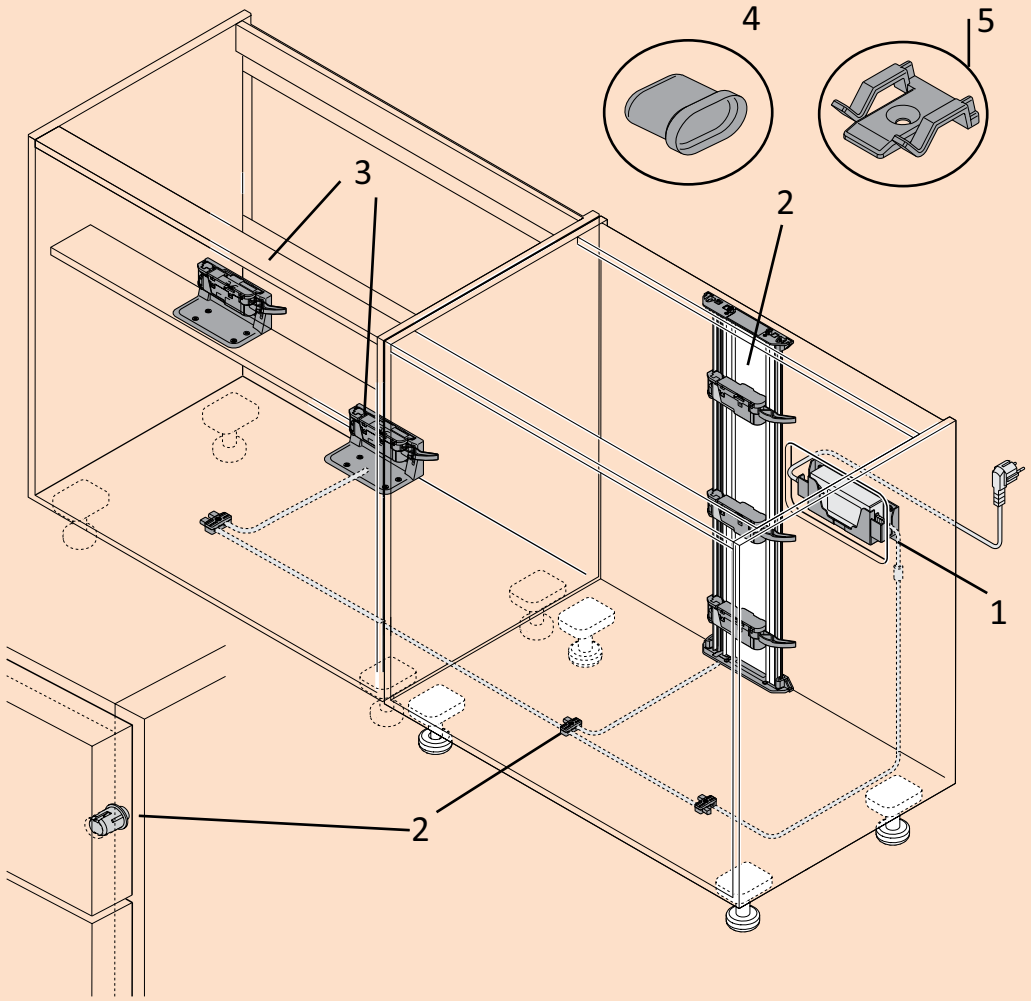
FEATURES

- Designed for use with Blum TANDEMBOX
- Only requires an additional 13 mm space behind the drawer when used with steel backs
- One Servo Drive unit for all applications up to 50 kg weights
- Simple easy installation
- Sits behind the drawer and pushes TANDEMBOX open
- Servo Drive does not fall into W.E.E.E directive category
- Certified that no electrician is required for installation
- Pierce technology for quick and easy assembly
- 24 Volt electrical current
- Power failure does not result in failure of drawer function

Servo Drive provides freedom of motion throughout the entire kitchen. Fronts can be used with or without handles, depending on the users' preference. The cutting edge of kitchen design, Servo Drive adds value to the modern kitchen.

Servo Drive - Overview

Cabinet Overview



1. TRANSFORMER KIT

The transformer kit provides power to all the Servo Drive units. It consists of a transformer, housing and a 6 metre power distribution cable. You require 1 kit for a single run kitchen and 2 kits for a kitchen with an island.

2. PROFILE KIT

The profile kit fixes to the base and the top cross member. It is supplied complete with drive units, bumpers and connecting node depending on cabinet style. See page 1.44 for order code.

3. ADAPTOR KIT FOR SINK UNIT

Specifically designed for use with Sink Units and other special applications, the kit comes complete with adaptors, drive units, bumpers and connecting nodes.

4. CABLE END PROTECTOR

The cable end protector slots onto the end of cables when they are cut. It prevents dirt, dust, water etc from contaminating the cabling. See page 1.44 for order code.

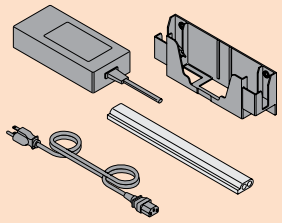
5. CABLE TIDY

The cable tidy is fixed to the base of the cabinet and allows the power distribution cable and cables from the profile kits to be lifted off the ground and organised neatly. See page 1.45 for order codes.

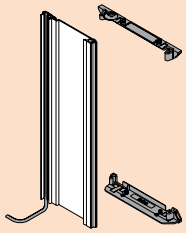
For more detailed instructions on ordering or assembly, please contact your Sales Representative or Head Office.

Servo Drive - Order Guide

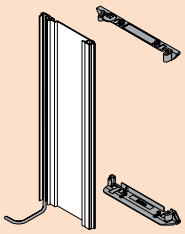
72w TRANSFORMER KIT

1 Per kitchen	Art. No.
	BZ10NE050SET

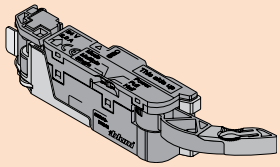
VERTICAL PROFILE SET

720 /18 mm High Units	Art. No.
	BZ10T674SET

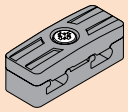
VERTICAL PROFILE SET

Cut to Suit 1170 mm	Art. No.
	BZ10T1170SET

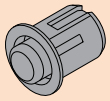
DRIVE UNIT

Full / half power setting	Art. No.
	BZ10A3000

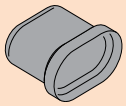
CONNECTING NODE

Transfers power	Art. No.
	BZ10V1000

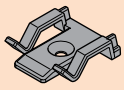
DOOR BUMPERS

8 mm ø	Art. No.
	9930830

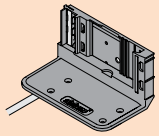
CABLE END PROTECTORS

Protects cables	Art. No.
	BZ10K0008

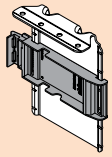
CABLE HOLDER

Keeps cables in place	Art. No.
	BZ10K0009

BASE ADAPTOR 1 TIER

For base fixing	Art. No.
	BZ10D7101

UPPER BRACKET

For Top Fixing	Art. No.
	BZ10D6252

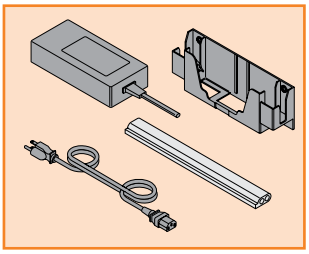
SYNCHRONISATION CABLE

2 drawers opening	Art. No.
	BZ10K120S

NOTE:

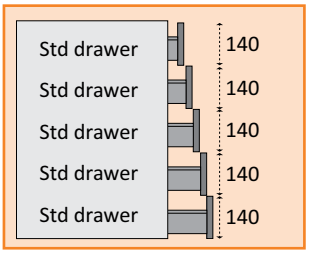
SERVO DRIVE is offered in pre packed kits for easier ordering, please see overleaf for the range of pre packed kits. If you cannot find a suitable kit please select components from the range shown here.

SERVO-DRIVE Pre-Packed Kits



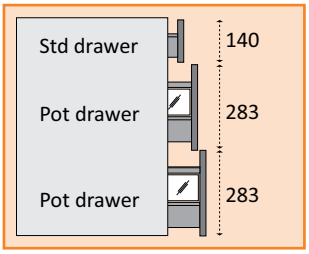
TRANSFORMER KIT

Description	Art. No.
1x 72w Transformer, 1 x power lead, 6 mtr power distribution cable, 1 connecting node, 3 x cable protector, 1 housing	BZ10NE050SET
1 transformer kit per kitchen run, island units / separate sections may require 2nd kit	



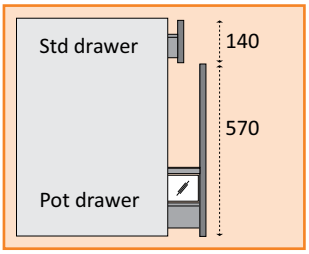
SERVO DRIVE SET FOR 5 DRAWER PACK

Description	Art. No.
1 x Vertical profile, 1 set top/bottom brackets, 5 x drive units, 10 x distance bumper, 1 connecting node, 1 cable protector	BSD5M



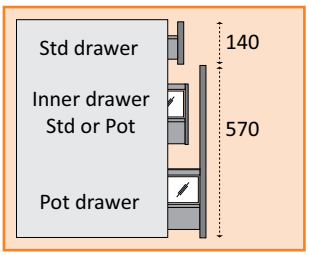
SERVO DRIVE SET FOR 3 DRAWER PACK

Description	Art. No.
1 x Vertical profile, 1 set top/bottom brackets, 3 x drive units, 6 x distance bumper, 1 connecting node, 1 cable protector	BSD3MDD



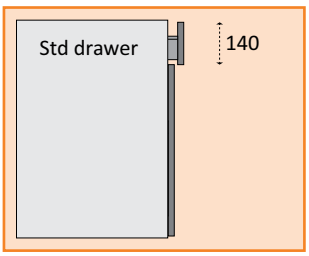
SERVO DRIVE SET FOR 2 DRAWER PACK

Description	Art. No.
1 x Vertical profile, 1 set top/bottom brackets, 2 x drive units, 6 x distance bumper, 1 connecting node, 1 cable protector	BSD2MD



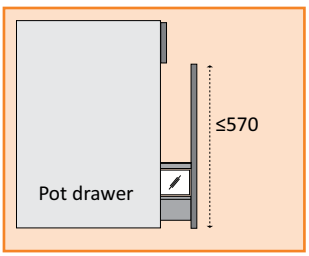
SERVO DRIVE SET FOR 3 DRAWER PACK

Description	Art. No.
1 x Vertical profile, 1 set top/bottom brackets, 3 x drive units, 6 x distance bumper, 1 connecting node, 1 cable protector	BSD3MID



SERVO DRIVE SET FOR 1 UPPER DRAWER

Description	Art. No.
1 x Upper attachment bracket, 1 x drive unit, 2 x distance bumper, 1 connecting node, 1 cable protector	BSD1MU



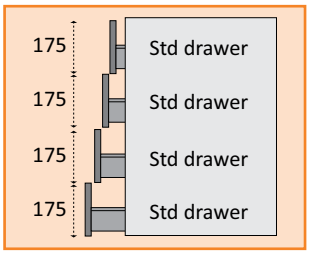
SERVO DRIVE SET FOR 1 LOWER DRAWER

Description	Art. No.
1 x Single tier lower bracket, 1 x drive unit, 6 x distance bumper, 1 connecting node, 1 cable protector	BSD1DL

SERVO-DRIVE Pre-Packed Kits

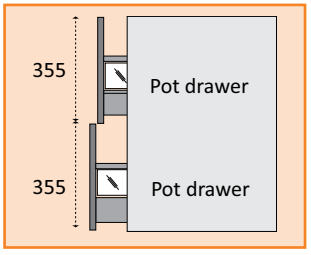
SERVO-DRIVE SET FOR 4 DRAWER PACK

Description	Art. No.
1 x Vertical profile, 1 set top/bottom brackets, 4 x drive units, 8 x distance bumper, 1 connecting node, 1 cable protector	BSD4M



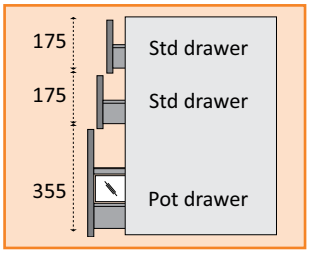
SERVO-DRIVE SET FOR 2 DRAWER PACK

Description	Art. No.
1 x Vertical profile, 1 set top/bottom brackets, 2 x drive units, 8 x distance bumper, 1 connecting node, 1 cable protector	BSD2DD



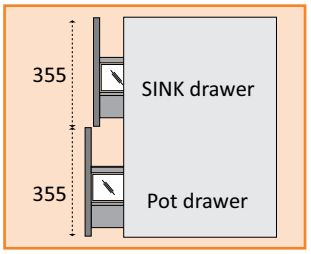
SERVO-DRIVE SET FOR 3 DRAWER PACK

Description	Art. No.
1 x Vertical profile, 1 set top/bottom brackets, 3 x drive units, 8 x distance bumper, 1 connecting node, 1 cable protector	BSD3MMD



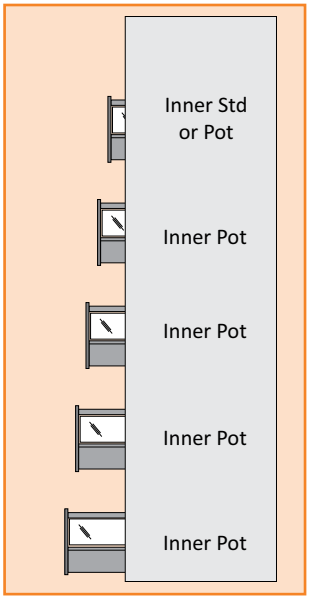
SERVO-DRIVE SET FOR SINK UNIT DRAWER PACK

Description	Art. No.
2 x Single tier Lower brackets, 2 x drive units, 8 x distance bumper, 2 connecting nodes, 2 cable protectors	BSD2SD



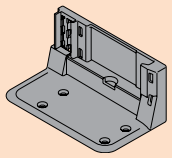
SERVO-DRIVE SET FOR LARDER OR PANTRY UNIT

Description	Art. No.
2 x Lower brackets, 1 x Top bracket, 1 x Back bracket, 1 x Back bracket cover, 1 x 6 mtr Distribution cable 2 x 1170 mm cut-to-suit vertical profiles, 1 x 6 mtr distribution cable, 5 x Drive units, 1 x Connecting node, 1 x Cable end protector	BSD5PU



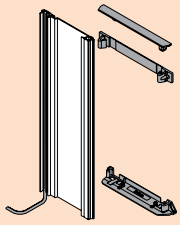
NOTE:
Drawers are sold separately. *With the exception of the Larder / Pantry unit solution shown, all other configurations are based on a 720 mm high cabinet with 18 mm top / bottom*

Component Parts



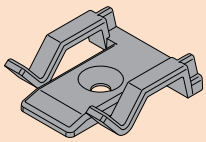
ADAPTOR BRACKET FOR DRIVE UNIT

Description	Art. No.
Adaptor bracket used for Sink Unit and other special applications	BZ10D7101



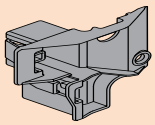
PROFILE KIT WITH BACK & BOTTOM BRACKETS

Description	Art. No.
Cut-to-suit profile max. internal height 713 mm	BZ10T703SETB
Note: Further sizes available by special order	



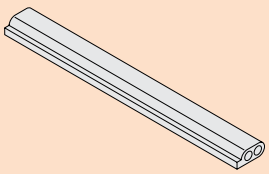
CABLE TIE

Description	Art. No.
Adhesive and screw fixing for cable organisation	BZ10K0009



BACK ADAPTOR BRACKET

Description	Art. No.
For use with 300 mm cabinets with Timber backs	BZ10A3H00



EXTRA POWER DISTRIBUTION CABLEBACKS

Description	Art. No.
Pre-cut 6 meter length	BZ10K600A
Cut-to-suit 100 meter length	BZ10K1HM

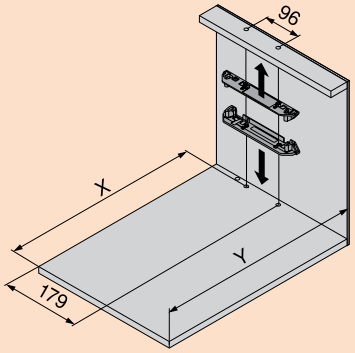
SERVO DRIVE ASSEMBLY JIGS

Description	Art. No.
Jig for profile positioning and drilling	BZML1150
Workshop jig for testing Drive Unit	BZML130A

SERVO-DRIVE Technical

HORIZONTAL CROSS MEMBER

The horizontal cross member allows for the fixing of the profile to the cabinet on the top and bottom.

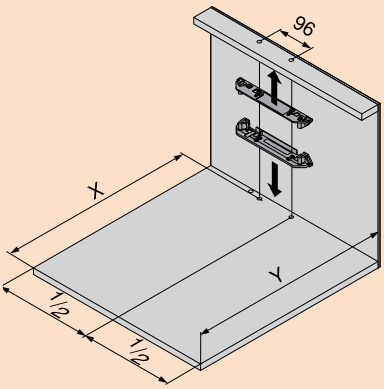


X = Profile Fixing Positions

Steel Drawer Back = Drawer Depth -1 mm
Timber Drawer Back = Drawer Depth +16 mm

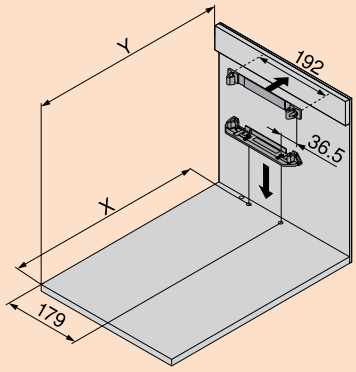
Y = Minimum Internal Cabinet Depth

Steel Drawer Back = Drawer Depth +13 mm
Timber Drawer Back = Drawer Depth +30 mm



VERTICAL CROSS MEMBER

Where cabinet construction does not allow for use of the Horizontal Cross Member, the vertical cross member allows for the fixing of the profile to the base and back of the cabinet.

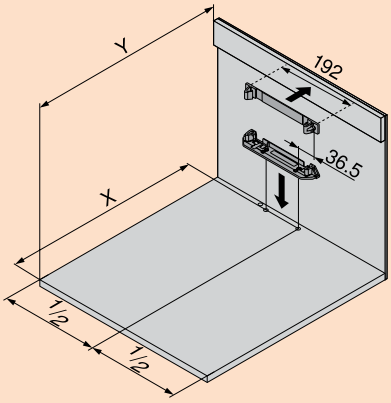


X = Profile Fixing Positions

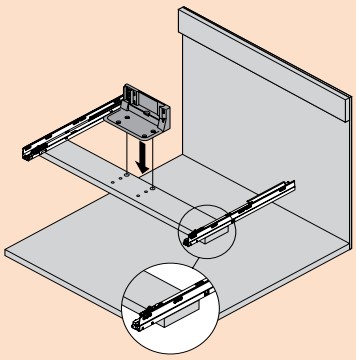
Steel Drawer Back = Drawer Depth -1 mm
Timber Drawer Back = Drawer Depth +16 mm

Y = Minimum Internal Cabinet Depth

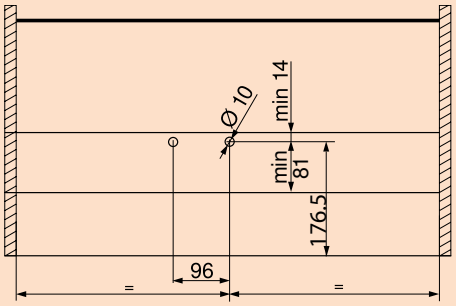
Steel Drawer Back = Drawer Depth +14 mm
Timber Drawer Back = Drawer Depth +31 mm



SINK UNIT APPLICATION



Shelf Position

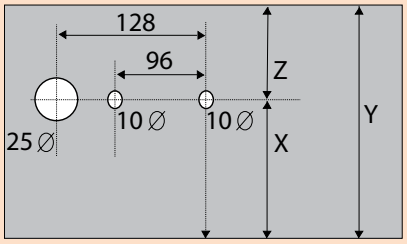


Cabinet Shelf Drilling

Note: For lower drawer, use adaptor bracket with standard drilling pattern on base of cabinet.

Flanagan Fittings

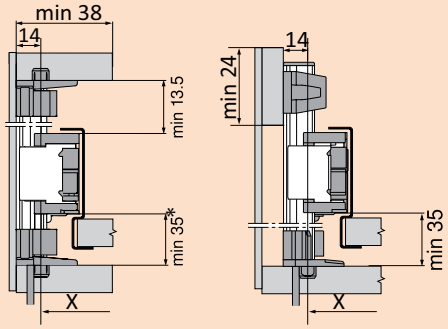
PROFILE BRACKET DRILLING POSITIONS



CABINET BASE
X = Fixing Positions
Y = Internal Depth
Z = Y - X

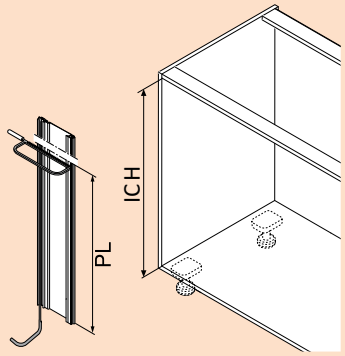
CROSS PROFILE
Y1 = Profile Depth
X1 = Y1 - Z

SPACE REQUIREMENTS



X = Profile fixing positions: Steel Back Drawer Depth - 1
or Timber Back Drawer Depth + 16 mm
*min. 27.5 mm for N Height Steel Back
NOTE: Minimum depth of horizontal cross member is 38 mm; however it is recommended depth is 100 mm for maximum flexibility.

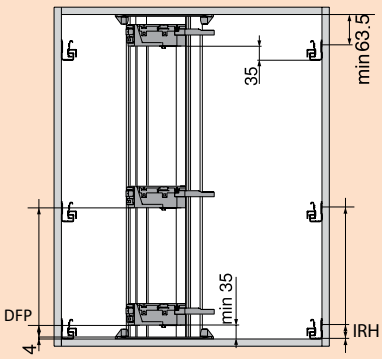
BACK PROFILE FOR CUTTING TO SIZE



ICH = Internal Cabinet Height
PL = Profile Length

PL = ICH - 10 mm

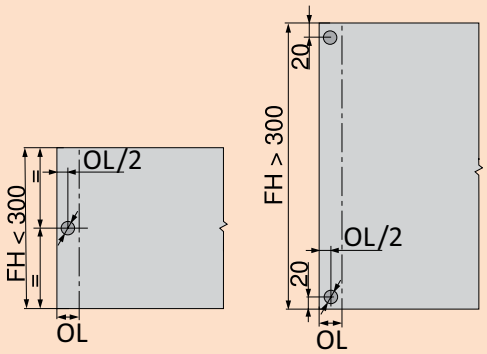
DRIVE UNIT FIXING POSITIONS



IRH = Internal Fixing Height of Runner
DRP = Drive Unit Fixing Position on Profile

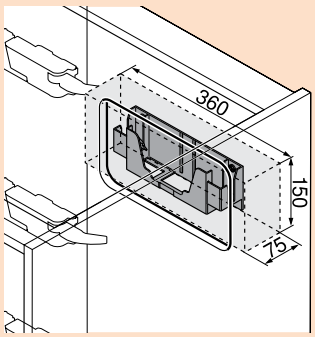
DFP = IRH - 2 mm

DRAWER FRONT FIXING POSITIONS



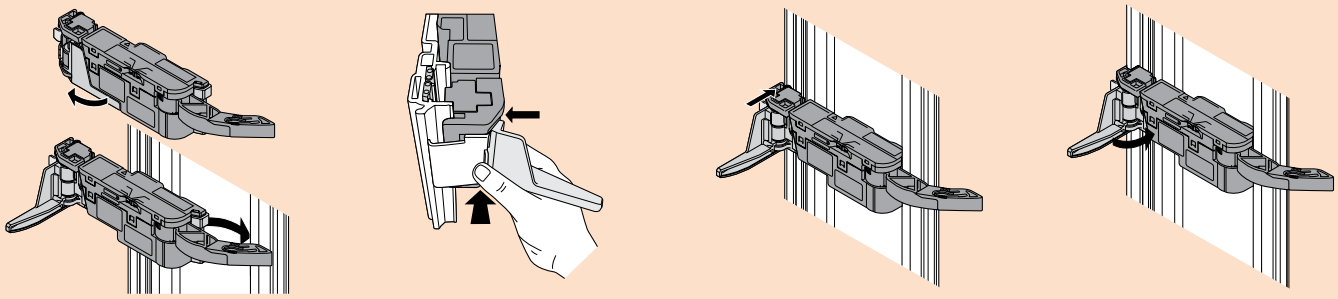
OL = Overlay on Gable
FH = Front Height
8 mm Hole
Min. 10 mm Depth

SPACE & SAFETY DISTANCE FOR TRANSFORMER HOUSING

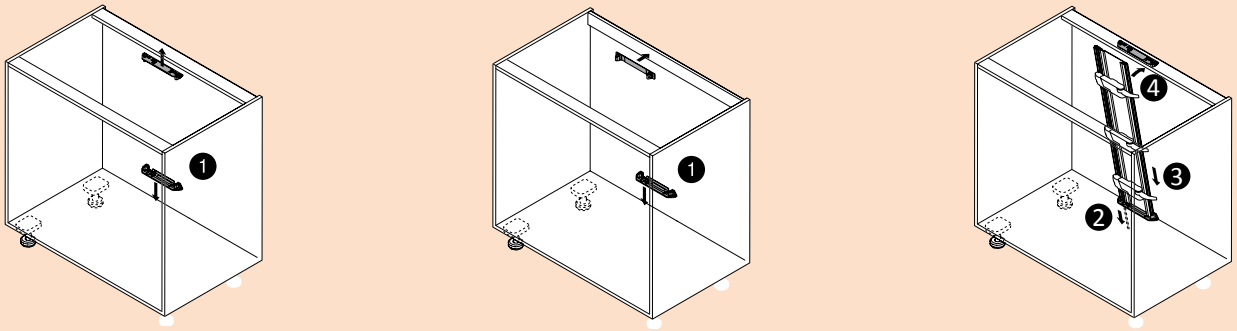


Maintain 30 mm space around all edges of the transformer in order to avoid the risk that the Blum transformer could overheat.

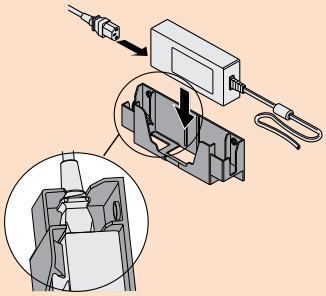
SERVO DRIVE Installation



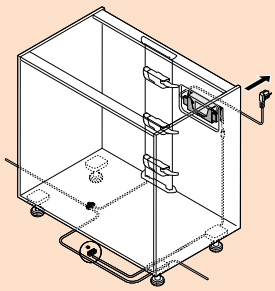
1. Open lever and position Drive Unit on right of profile
2. Open clamp on left side of Drive Unit and position on left of profile
3. Press Drive Unit firmly in place
4. Close lever to engage pinch technology



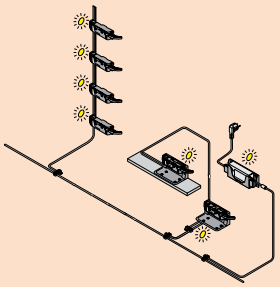
1. Fix brackets to cabinet (top or back option)
2. Slide cable through base
3. Clip profile into base bracket
4. Clip profile into top bracket OR Clip profile into back bracket



Fix Power Cable into Transformer and insert into housing.
NOTE: Housing ensures power cable will not pull out of transformer.



Pull Transformer Cable to the front of the cabinet and secure to Power Distribution cable with Connecting Node.



Once power is switched on, the illumination of lights on the Drive Unit(s) and Transformer indicate that SERVO DRIVE is ready for use.

NOTE: Cables are designed so that they cannot be inserted into connecting nodes incorrectly.