



LAMP AILERON STAY FOR OLYMPIA ARN-2 Top-opening Model **NEW**



Lift-assist

Soft-close

Free-stop

Passed
Private 40K Cycle Test

Opening Direction	Features	Non-handed	Type	Maximum Door Moment
	Lift-assist Soft-close Free-stop	Yes	M	4.0~6.0 N-m/pc (40.8~61.2 kgf-cm/pc)
			H	6.0~8.0 N-m/pc (61.2~81.6 kgf-cm/pc)

- Smooth door movement. It is specially designed for use with the OLYMPIA concealed hinge (360-D26-19 / H360-D26-26T).
- The lift-assist function allows for light opening of doors.
- The force of lift-assist is adjustable.
- The soft-close function makes doors close gently (0°~30° degrees).
- Integrated design combines a concealed hinge and lid stay.
- The free-stop function enables doors to hold in position.
- Closing speed of doors is adjustable.

INSTRUCTION

SCREW

Specifications

- Operating temperature: 0°~40°C

Parts Included

- Door-side mounting plate
- Countersunk head tapping screw 3.5 × 1.5 (for attaching the mounting plate to AILERON)
- Binding head tapping screw 3.5 × 1.5 (for attaching the door-side mounting plate, mounting plate for AILERON, and AILERON)

Optional Parts

- Hinge spacer 360-BCS
- Aileron spacer ARN-DP

Sold Separately

- Mounting plate for AILERON
- OLYMPIA concealed hinge
- Mounting plate for OLYMPIA

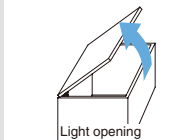


Damper Stay

Door Movements

Lift-assist

Allows for light opening of doors



Light opening

Soft-close

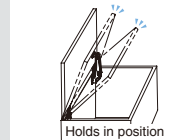
OLYMPIA's damper makes doors close slowly. (0° - 30°)



Gently closing

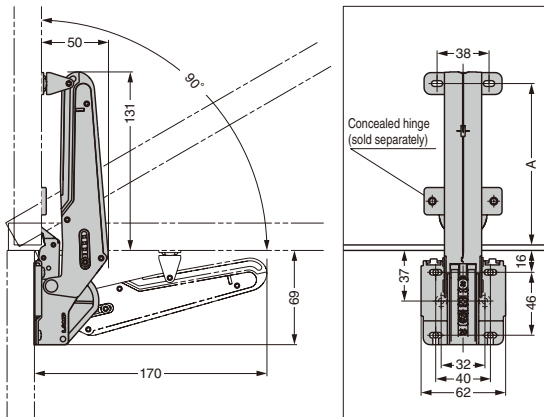
Free-stop

Enables doors to hold in position.



Holds in position

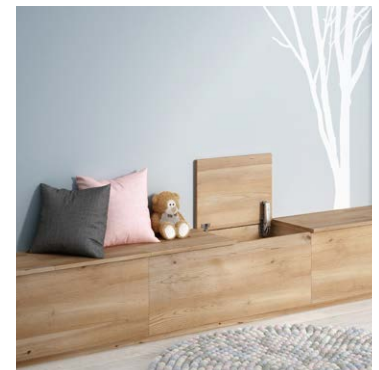
Installation



Please see pages of Olympia hinges for installation dimensions.

Hinge Used	A
360-D26-19T	118
H360-D26-26T	116

Application Example



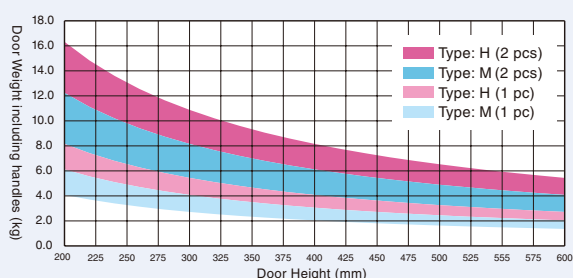
Aileron Stay (Sold singly)

Item Code	Item Name	Material	Finish / Colour	Type	Max. Door Moment N-m/pc	Max. Door Moment kgf-cm/pc	Box	Carton
180-043-945	ARN-2-M-GR	Steel (SPCC) / POM	Nickel plating / Grey	M	4.0~6.0	40.8~61.2	1 pc	20 pcs
180-043-946	ARN-2-H-GR			H	6.0~8.0	61.2~81.6	1 pc	20 pcs
180-049-501	ARN-2-M-BL		Nickel plating / Black	M	4.0~6.0	40.8~61.2	1 pc	20 pcs
180-049-502	ARN-2-H-BL			H	6.0~8.0	61.2~81.6	1 pc	20 pcs

Standard Set Including parts (Sold Separately)

Item Code	Item Name	Door Width	Max. Door Moment N-m	Max. Door Moment kgf-cm	Set Contents	Box	Carton
180-045-661	ARN-2-M-GR-S	450~900	4.0~6.0	40.8~61.2	Aileron stay, Mounting plate for Aileron stay, Olympia hinge, Mounting plate for Olympia hinge, Screws	1 pc	10 pcs
180-045-662	ARN-2-H-GR-S		6.0~8.0	61.2~81.6		1 pc	10 pcs
180-049-505	ARN-2-M-BL-S		4.0~6.0	40.8~61.2		1 pc	10 pcs
180-049-506	ARN-2-H-BL-S		6.0~8.0	61.2~81.6		1 pc	10 pcs

Selection Graph (upward and top-opening models)

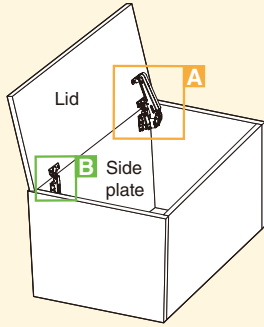


Maximum Door Moment	Type	Number of AILERON
4.0~6.0	M	1 pc
6.0~8.0	H	
8.0~12.0	M	2 pcs
12.0~16.0	H	

As a guide for model selection, please refer to the graph on the left. For use with doors outside of the scope of this graph, use the calculation below. (The door weight includes attached decorations such as handles.)

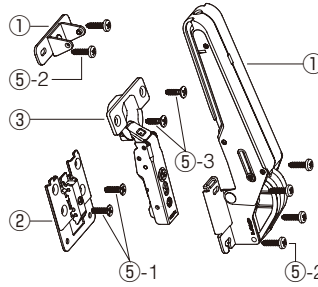
- The selection should be based on Max. door moment. (Two types are available.)
- Maximum Door Moment (N-m) = Door weight (kg) × 9.80665 × Distance from rotation centre to door centre of gravity (m)

Components for one lid

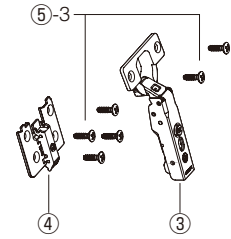


The hinges are integrated, so the parts can be aggregated on one lid and side plate surface.

A With AILERON



B No AILERON



Required parts for one lid ([A] + [B])

The required quantity depends on lid width and maximum moment.

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		Lid width [mm]														
		450~900				900~1600				1600~2000						
		Lid max. moment [N·m]														
		4.0 ↑ 6.0	6.0 ↑ 8.0	8.0 ↑ 12.0	12.0 ↑ 16.0	4.0 ↑ 6.0	6.0 ↑ 8.0	8.0 ↑ 12.0	12.0 ↑ 16.0	4.0 ↑ 6.0	6.0 ↑ 8.0	8.0 ↑ 12.0	12.0 ↑ 16.0			
AILERON	① Body	 Grey  Black Including: - Binding tapping screws x6 - Countersunk head tapping screw x2	180-043-945 or 180-049-501	ARN-2-M-GR or ARN-2-M-BL	Standard Set											
					1	-	2	-	1	-	2	-	1	-	2	-
			180-043-946 or 180-049-502	ARN-2-H-GR or ARN-2-H-BL	-	1	-	2	-	1	-	2	-	1	-	2
	② Washer		180-043-949	ARN-SZ	1		2		1		2		1		2	
OLYMPIA CONCEALED HINGE	③ Body		160-026-840 or 160-029-084	360-D26-19T or H360-D26-26T (damper built-in)	2 ^{*3}		3		2		3		2		3	
			160-026-836 or 160-029-081	360-26-19T or H360-26-26T (no catch)	-	-	1		-		2		-			
			160-026-832 or 160-029-078	360-C26-19T or H360-C26-26T (with catch)	-	-	-		-		-		1			
	④ Washer		160-026-846 *1	360-P6WT (System 32/4 holes)	1		1		2		1		3		2	
⑤ Screw		160-070-030	TAP3515NI	8 ^{*2}		10 ^{*2}		14 ^{*2}		10 ^{*2}		20 ^{*2}		16 ^{*2}		

^{*1} For ④ Washer, 360-P4W-32T (Item Code: 160-026-845) and 360-P4W-30T (Item Code: 160-026-844) can also be used.

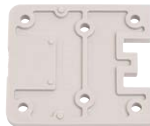
^{*2} Quantity when using ④ Washer 360-P6WT. When using 360-P4W-32T or 360-P4W-30T, the required quantity is reduced by one for each washer.

^{*3} The 360-D26-19T is included in the standard set.

LAMP AILERON SPACER ARN-DP 2 and 5 mm Thick NEW

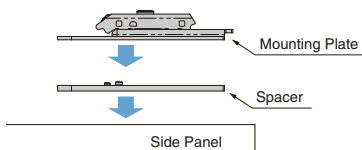


ARN-DP2 (2 mm)



ARN-DP5 (5 mm)

How to Use



Set the spacer between the mounting plate and side panel.

Spacer

Item Code	Item Name	Colour	Type	Material	Box (pcs)	Carton (pcs)
180-046-667	ARN-DP2	Grey	+ 2 mm	POM	80	640
180-047-915	ARN-DP5		+ 5 mm (screw included)		80	640

Optional screw when using two ARN-DP2

Item Code	Item Name
180-046-669	TAP3520NI

Sold in sets of 4 screws.

- Specially designed for use with the AILERON stay (P.246,P.260).
- The ARN-DP2 decreases overlay of outset doors by 2 mm.
- The ARN-DP5 decreases overlay of outset doors by 5 mm.
- The ARN-DP2 can be doubled for 4 mm thickness.

Available Mounting Plate

- ARN-SZ (P.247)

Remarks

- The included screws are for fixing the spacer (ARN-DP5) and mounting plate (ARN-SZ).
- Please use the optional screws if two ARN-DP2 are used.

Parts Included

- Cross-recessed binding head tapping screw 3.5x20
(Only the ARN-DP5 comes with these screws.)