



Premium  
LID STAYS

NSDX · HDS · SDS  
AILERON · S-AT · IF-360

**SUGATSUNE**



# NSDX

## LID STAY SERIES



Item No.	Type	Torque
NSDX-35RK	Right	19~60 lbs-in (20~70 kg-cm) per piece
NSDX-35LK	Left	38~120 lbs-in (40~140 kg-cm) per pair



# NSDX-35 (Upward Opening)

## ADJUSTABLE SOFT-DOWN LID STAY

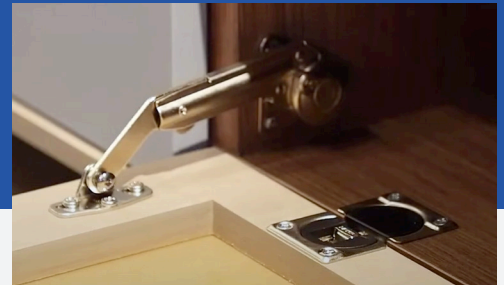
The NSDX Lid Stay is compatible with piano, butt, or concealed hinges, providing a seamless and stylish aesthetic. With its customizable opening angle options of 80°, 90°, or 100°, this door offers flexibility to suit various needs and preferences. The NSDX-35 is designed to securely hold the door in its fully opened position. This ensures a stable and reliable experience when using the door, allowing for comfortable access and use.



Item No.	Type	Torque
NSDX-10RK	Right	19~60 lbs-in (20~70 kg-cm) per piece
NSDX-10LK	Left	38~120 lbs-in (40~140 kg-cm) per pair



Item No.	Type	Torque
NSDX-20RK	Right	19~60 lbs-in (20~70 kg-cm) per piece
NSDX-20LK	Left	38~120 lbs-in (40~140 kg-cm) per pair



Item No.	Type	Torque
NSDX-10RK/TV	Right	19~60 lbs-in (20~70 kg-cm) per piece
NSDX-10LK/TV	Left	38~120 lbs-in (40~140 kg-cm) per pair

## NSDX-10 (Downward Opening)

- For DOWNWARD-OPENING FLAP DOOR used with piano, butt or drop hinges.
- NSDX-10 is designed to hold door in closed position.
- Speed adjustment screw located on front for easy adjustment.

## NSDX-20 (Top Opening)

- For TOP-OPENING FLAP DOOR used with piano, butt or drop hinges.
- NSDX-20 is designed to hold door in closed position.
- Speed adjustment screw located on front for easy adjustment.

## NSDX-10/TV (Downward Opening, Short Arm)

- For DOWNWARD-OPENING FLAP DOOR used with piano, butt or drop hinges.
- Short arm type designed for small door application.

# HDS

## SOFT DOWN STAY SERIES

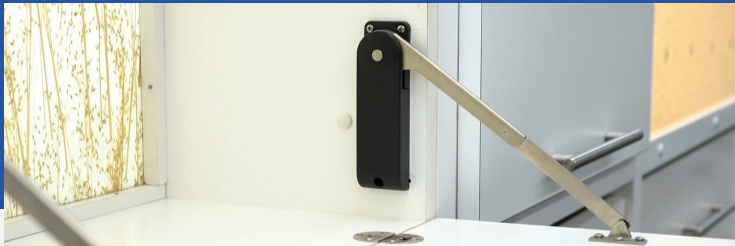
Item No.		Type	Torque	Available Colors
Left	Right			
HDS-30KL	HDS-30KR	Light Duty	121~173 lbs-in (140~200 kg-cm)	• Black • White
HDS-30ML	HDS-30MR	Medium Duty	173~216 lbs-in (200~250 kg-cm)	
HDS-30HL	HDS-30HR	Heavy Duty	216~260 lbs-in (250~300 kg-cm)	



# HDS-30 (Upward Opening)

## SOFT-DOWN STAY

The HDS-30 is a specialized soft-down lid stay designed for use with piano, butt, or concealed hinges. It is used in pairs to provide stability and balance during operation. The HDS-30, is engineered to ensure a secure latch when the flap is closed and to hold it firmly in the fully opened position. Different variants of the HDS-30, are available and offer varying torque specifications.



Item No.		Type	Torque	Available Colors
Left	Right			
HDS-10KL	HDS-10KR	Light Duty	121~173 lbs-in (140~200 kg-cm)	• Black • White
HDS-10ML	HDS-10MR	Medium Duty	173~216 lbs-in (200~250 kg-cm)	
HDS-10HL	HDS-10HR	Heavy Duty	216~260 lbs-in (250~300 kg-cm)	



Item No.		Type	Torque	Available Colors
Left	Right			
HDS-20KL	HDS-20KR	Light Duty	121~173 lbs-in (140~200 kg-cm)	• Black • White
HDS-20ML	HDS-20MR	Medium Duty	173~216 lbs-in (200~250 kg-cm)	
HDS-20HL	HDS-20HR	Heavy Duty	216~260 lbs-in (250~300 kg-cm)	

# HDS-10 (Downward Opening)

- For DOWNWARD-OPENING FLAP DOOR used with piano, butt or drop hinges.
- HDS-10 is designed to hold door in closed and opened position.
- Used in pairs.

# HDS-20 (Top Opening)

- For TOP-OPENING FLAP DOOR used with piano, butt or concealed hinges.
- HDS-20 is designed to hold door in fully opened position.
- Used in pairs.





# SDS

## SOFT DOWN STAY SERIES

### SDS-C30

(Upward Opening)

### SOFT-DOWN STAY

The SDS-C301N is an Upward Opening Soft Down Stay, specifically designed to work seamlessly with concealed, piano, or butt hinges. It is capable of securely holding the door in both the closed and opened positions. The SDS-C301N is specifically designed to accommodate doors with a thickness of 25/32" (20 mm).

Item No.	Color	Torque
SDS-C301N/WHT	White	35~60 lbs-in (40~70 kg-cm) per piece 70~120 lbs-in (80~140 kg-cm) per pair
SDS-C301N/BLK	Black	



Item No.	Color	Torque
SDS-C301N/WHT	White	35~60 lbs-in (40~70 kg-cm) per piece 70~120 lbs-in (80~140 kg-cm) per pair
SDS-C301N/BLK	Black	

### SDS-C301N

(Top Opening)

- For UPWARD-OPENING FLAP DOOR used with concealed, piano or butt hinges.
- SDS-C301N is designed to hold door in closed and opened position.
- Non-handed.



Item No.	Color	Torque
SDS-C100/WHT	White	30~43 lbs-in (35~50 kg-cm) per piece 60~86 lbs-in (70~100 kg-cm) per pair
SDS-C100/BLK	Black	

### SDS-C100

(Downward Opening)

- For DOWNWARD-OPENING FLAP DOOR used with piano, butt or drop hinges.
- SDS-C100 (with catch) is designed to hold door in closed position.
- Non-handed.

# AILERON

## LIFT-ASSIST LID STAY SERIES

### ARN-2

(Top Opening)

## LIFT-ASSIST LID STAY

The elegant Aileron System includes free-stop, soft down stay and lift assist with minimum required hardware components. The Aileron System creates continuous door movements with adjustable closing speed and free-stop functions. The Aileron System is easy to install as well, simply place the cup hinge and then screw-on the Aileron Lid Stay, it's that simple.

Item No.	Type	Torque
ARN-2-M-S	Top Opening	35.4~53.1 lbs·in (40.8~61.2 kg·cm)
ARN-2-H-S	Top Opening	53.1~70.8 lbs·in (61.2~81.6 kg·cm)
ARN-3-M-S	Upward Opening	35.4~53.1 lbs·in (40.8~61.2 kg·cm)
ARN-3-H-S	Upward Opening	53.1~70.8 lbs·in (61.2~81.6 kg·cm)

### ARN3

(Upward Opening)

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



# S-AT

## SPRING LOADED LID STAY

# S-AT01/ S-AT02

(Top Opening)

## SOFT-DOWN STAY

The S-AT01/ S-AT02 is designed to be side wall mounted. The lid S-AT Lid Stay utilizes a spring mechanism that assists in lifting the door and holding it in an open position. The spring mechanism supports an open position range of 10° to 80°. The S-AT can be installed either individually or in pairs, depending on the specific requirements of the installation.

Item No.	Material	Torque
S-AT01	430 Stainless Steel/ Steel/Polyacetal	78 lbs-in (90 kg-cm) per piece
S-AT02	430 Stainless Steel/ Steel/Polyacetal	104 lbs-in (120 kg-cm) per piece



Item No.	Material	Torque
S-ATJ01	430 Stainless Steel/ Steel/Polyacetal	78 lbs-in (90 kg-cm) per piece
S-ATJ-02	430 Stainless Steel/ Steel/Polyacetal	104 lbs-in (120 kg-cm) per piece



Item No.	Orientation	Torque
S-AT02W	Side Mount	156.5~186.1 lbs-in (180~214 kg-cm) per piece
	Back Mount	133.0~146.1 lbs-in (153~168 kg-cm) per piece

## S-ATJ01/ S-ATJ02

### Balance Adjustable Spring Loaded Lid Stay

- Side wall mounted.
- Spring mechanism assists in lifting door and holds in open position (10°~80°).
- The balance adjustment allows for use in wider range of lids.
- Can be installed individually or in pairs.
- Non-handed.

## S-AT02W

### Heavy Duty Spring Loaded Lid Stay

- Heavy duty spring mechanism assists in lifting door and holds in open position (10~80°).
- Can be side or back mounted.

# IF-360

## RECEDING DOOR MECHANISM



Item No.	Door Weight	Torque
IF-360S	3.1 ~ 5.5 lbs (1.4 ~ 2.5 kg)	17 ~ 60 lbs-in (20 ~ 70 kg-cm)
IF-360W	5.9 ~ 11 lbs (2.7 ~ 5 kg)	34 ~ 121 lbs-in (40 ~ 140 kg-cm)
IF-H360S	3.1 ~ 5.5 lbs (1.4 ~ 2.5 kg)	17 ~ 60 lbs-in (20 ~ 70 kg-cm)
IF-H360W	5.9 ~ 11 lbs (2.7 ~ 5 kg)	34 ~ 121 lbs-in (40 ~ 140 kg-cm)



The IF-360 is designed for cabinet doors that open in an upward direction, providing a unique and space-saving lid stay system.

- For upward-opening cabinet doors.
- Soft-close feature prevents slamming. Soft-closing speed is adjustable.
- Door pockets into the cabinet to get out of the way when opened.
- NSDX soft-down stay successfully passed 30,000 open/close private cycles test.





## Top-Opening

Top-opening lid stays are mechanisms used to hold a lid or door in an open position and provide convenient access or visibility to the contents underneath. Common applications for top-opening lid stays include chest lids, toy boxes, cabinets and more.



## Upward-Opening

Upward opening lid stays securely keep lids, doors, or panels in an open position. They provide controlled movement, safety, and convenience in both home or commercial settings. Upward-opening lid stays play an essential role in improving user experience and preventing accidents.



## Downward-Opening

Downward-opening lid stays enable controlled, safe, and convenient movement of lids and doors that open downward. These mechanisms ensure that the lid remains in a stable position when opened and closed, preventing it from slamming shut unexpectedly or falling open too quickly.



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