

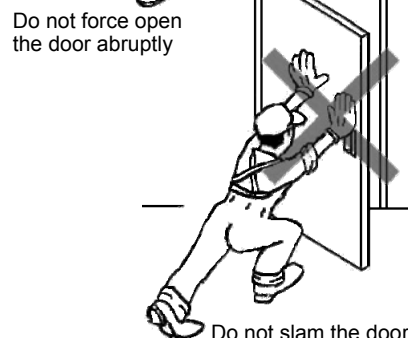
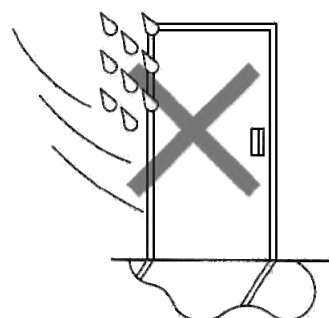
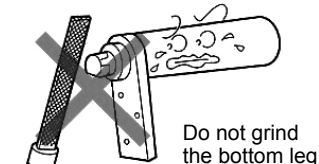
Center hanging type auto hinge A-16H

User's guide

Thank you very much for purchasing our product. Before using the product, please read these Operating Instructions carefully and abide by safety precautions. After reading, keep the User's Guide on hand for quick reference.

Operating Instructions

- Do not hammer in or grind the bottom leg at mounting and installation.
 - The bottom leg could break or crack, causing the door to topple over.
 - The door could tilt to cause damage to itself, the wall, or the floor or cause the Auto Hinge to fail.
 - The door could slam, getting your fingers pinched or cause contact or toppling accidents.
- Do not use Auto Hinges in a place that is exposed to direct moisture or rainwater.
 - The bottom leg could break, or the mounting screws could break or loosen to cause the door to topple over.
- Do not use Auto Hinges in places that are exposed to strong winds.
 - The door could slam, getting your fingers pinched or cause contact or toppling accidents.
- Do not force open the door abruptly.
 - It could get your fingers pinched or cause contact or toppling accidents.
 - Damage to the door, wall or other parts or Auto Hinge failures could occur.
- Do not force closing the door hastily while it is closing slowly.
 - It could get your fingers pinched or cause contact or toppling accidents.
 - Damage to the door, wall or other parts or Auto Hinge failures could occur.
 - The bottom leg could break or the mounting screws could break or loosen, causing door toppling accidents.
- Tighten Auto Hinge mounting screws firmly.
 - Periodically check once each year to see if the Auto Hinge is in firm position.
 - The door could topple over.
 - The door could tilt to cause damage to itself, the wall, or the floor or cause the Auto Hinge to fail.
 - The door could slam, getting your fingers pinched or cause contact or toppling accidents.
- If oil has oozed or leaked to disable the hydraulic pressure even after speed adjustment, keeping the door from closing slowly, replace the Auto Hinge immediately.
 - The door could slam, getting your fingers pinched or cause contact or toppling accidents.
 - Do not over loosen the Auto Hinge when adjusting its speed to avoid oil leakage.
- Check the specifications and opening orientation of the product and the names and quantities of the parts supplied with it.
 - Use of the product for the wrong door size could damage to the door, the wall, or the floor or cause the Auto Hinge to fail.



Part name and quantities	
Name	Quantity
A-16H body	1
Top pivot	1 set
Slide Receptive base	1
Spring set bar (φ8)	2
Spring set pin (φ8×12)	1
M5×12 pan head screw (pivot mounting)	8
M6×30 pan head screw (hinge mounting)	4
Decorative rubber plate (square small)	1
Decorative rubber plate (round)	1

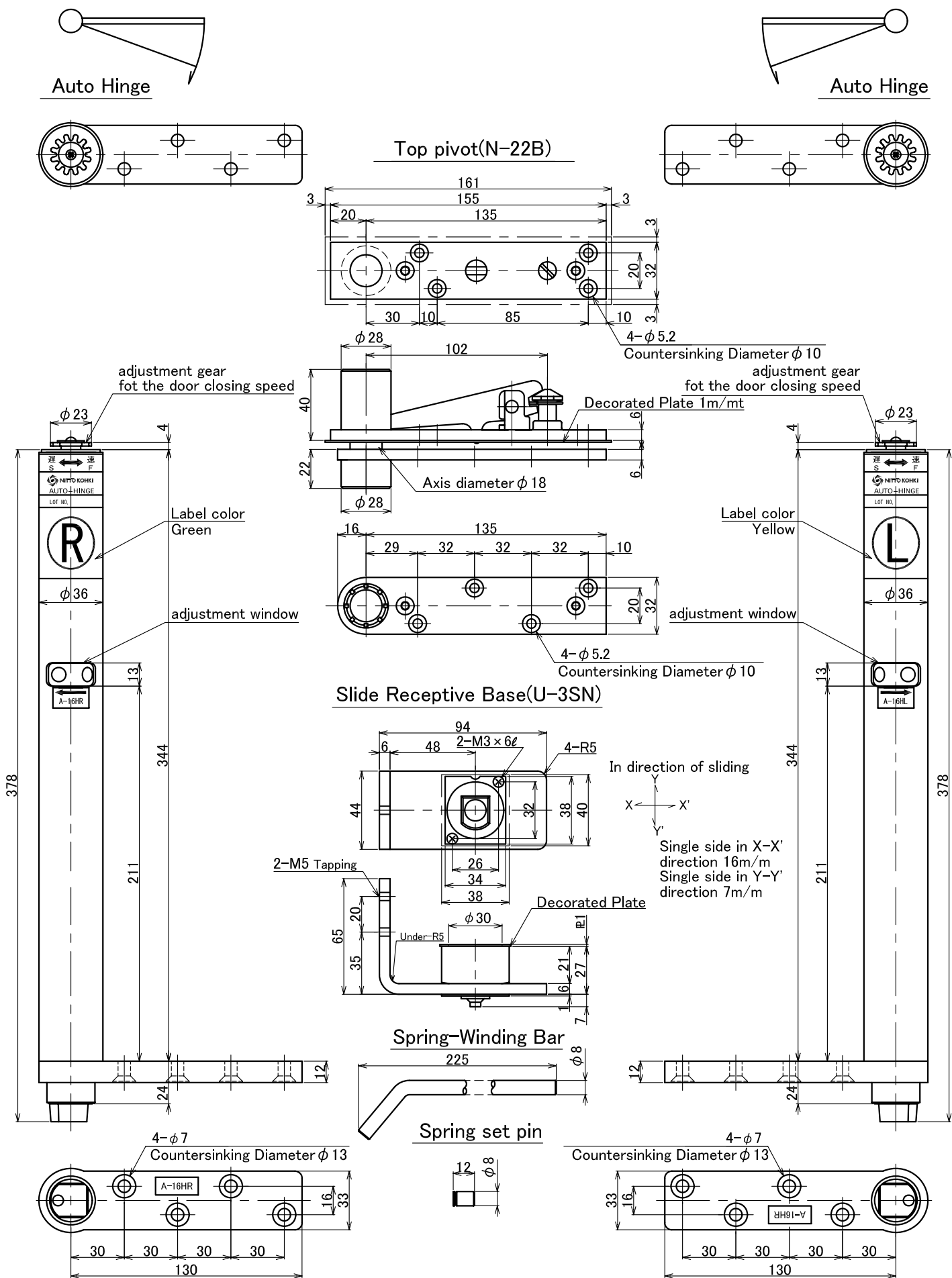
Product Specifications

Model		Body color	Applicable door size		Applicable door weight	Closing force	Maximum door opening angle	Spring set method	Stop mechanism
A-16H-L	Left-handed opening	Yellow	Width:	1600 mm or less	160 kg or less	24.6N·m	180° right-handed opening or one-way left-handed opening	Recoil type	No
			Height:	2400 mm or less					
A-16H-R	Right-handed opening	Green	Thickness:	45 mm or more					

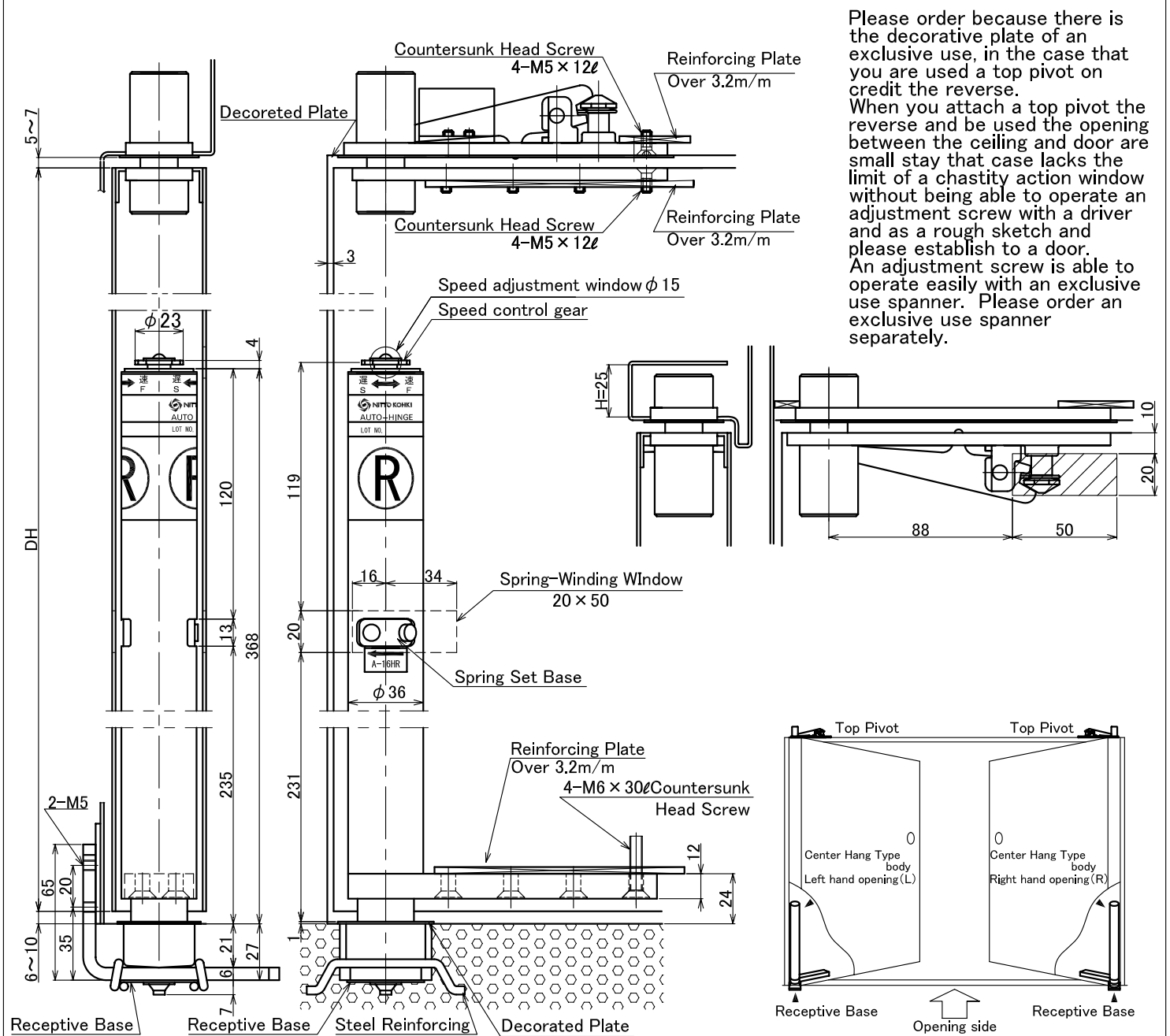
Model A-16H External Dimensions

Right hand opening doors (A-16HR)

Left hand opening doors (A-16HL)

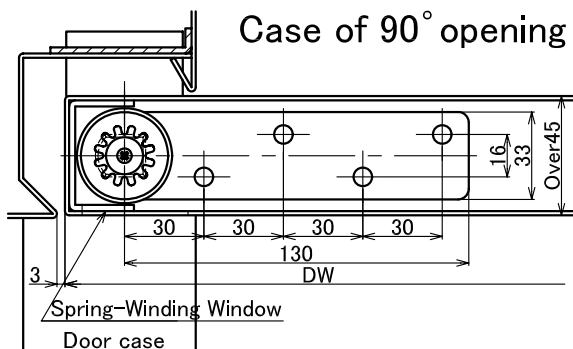


Fitting diagrams

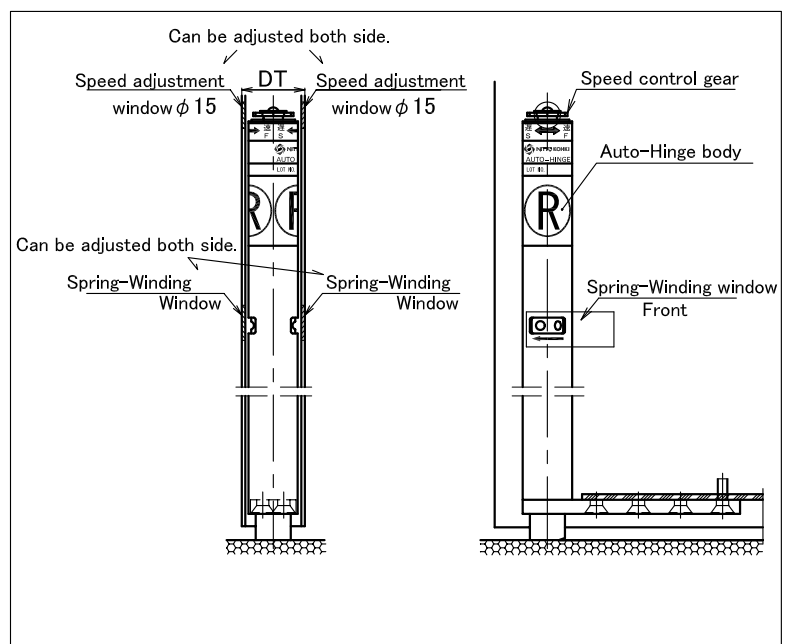
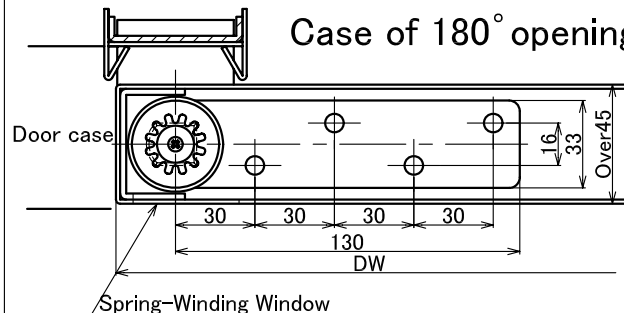


Please order because there is the decorative plate of an exclusive use, in the case that you are used a top pivot on credit the reverse. When you attach a top pivot the reverse and be used the opening between the ceiling and door are small stay that case lacks the limit of a chastity action window without being able to operate an adjustment screw with a driver and as a rough sketch and please establish to a door. An adjustment screw is able to operate easily with an exclusive use spanner. Please order an exclusive use spanner separately.

Case of 90° opening



Case of 180° opening

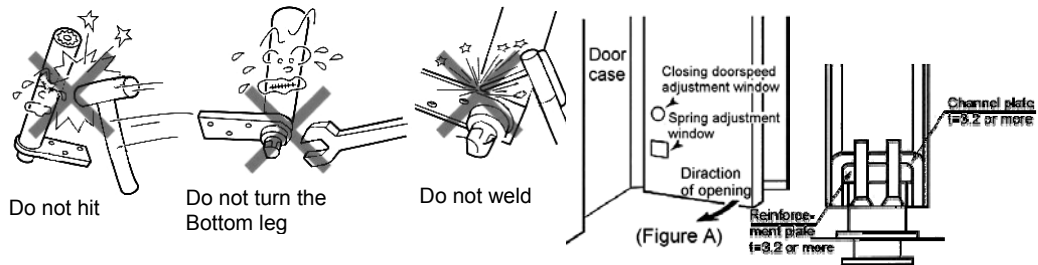


This diagram shows Model A-16HR for right-hand opening doors.

Installation Instructions

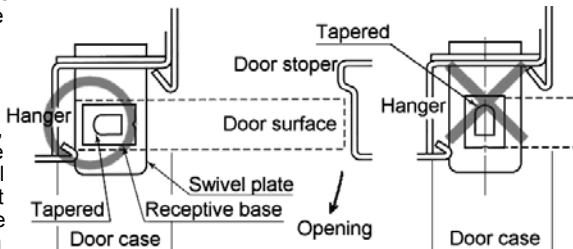
1. Pre-installation Tips

Do not hit or drop.
Do not turn the bottom leg.
Check the door adjustment windows (Figure A).
Check the hinge reinforcement plate and the channel plate.

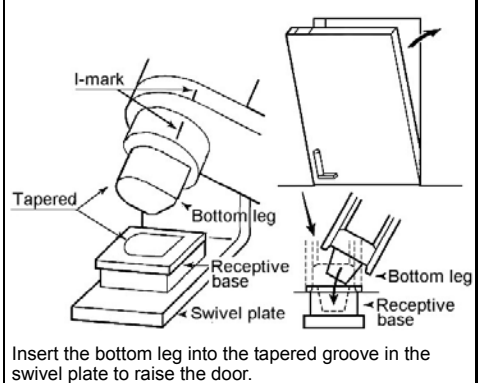


2. Install the Swivel Plate

Install the swivel plate so that bring the tapered end of the groove in the plate will face the wall side with the door closed as shown. Align the center of rotation of the top pivot with the swivel plate.
Weld the swivel plate and the receptive base to each other firmly, but not before making sure that the swivel plate is positioned in parallel with the surface of the door when it is closed and that it is level with the floor surface. Give a mortar finish to the swivel plate after welding some reinforcement slabs to it.

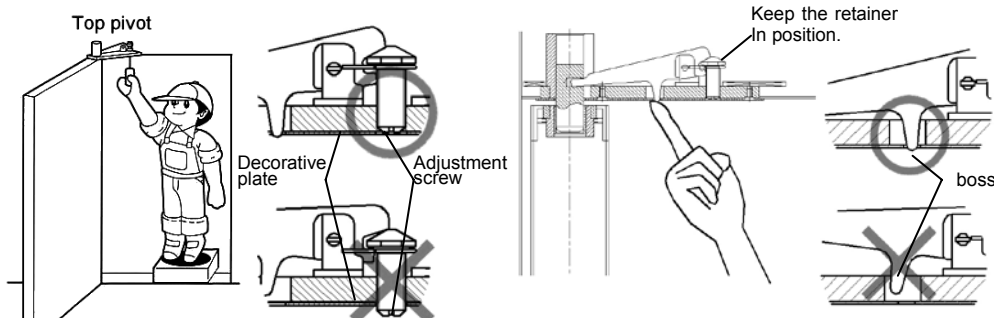


3. Hang



4. Top Pivot

With the door open, screw the frame-side pivot adjustment screws into position with a flat-head screwdriver by aligning with the top pivot center.
Tighten the adjustment screw until it is recessed in the Decorative plate surface, and insert the shaft fully into the door-side bearing.
When the work is complete, feel with a finger that the boss projects from the check hole in the top pivot.



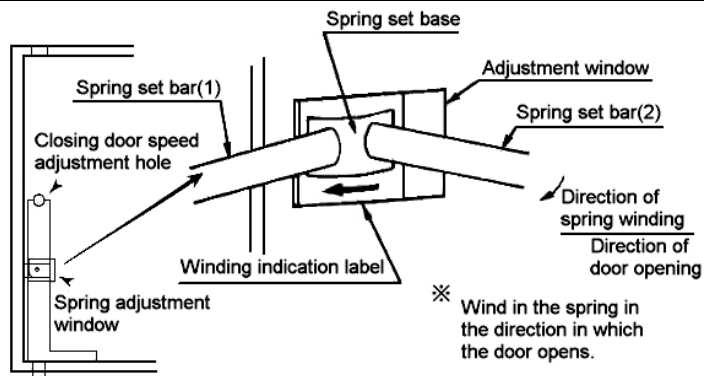
Make sure that the adjustment screw does not stick out of the decorative sheet surface.

Fast with a finger that the boss projects from the check hole in the top pivot.

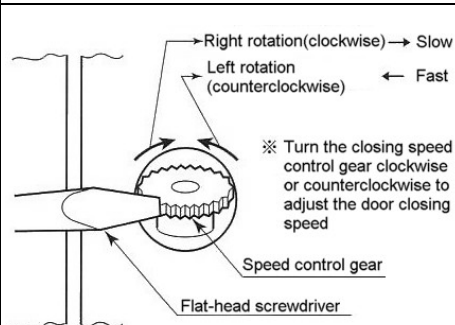
5. Wind In the Spring

Insert spring set bar ① into the hole in the spring set base to wind it in. Next, insert spring set bar ② into the next hole to remove bar ①, and wind in spring set bar ② in the same direction.
Repeat this step to wind in the spring into a total of six holes and insert set pins into them firmly.

Note: Wind in the spring in the direction in which the door opens (marked by the arrow in the winding indication label).
Insert the set bars into the six holes positively to wind in. Winding in the spring in the required number of holes is prerequisite to producing a required torque.



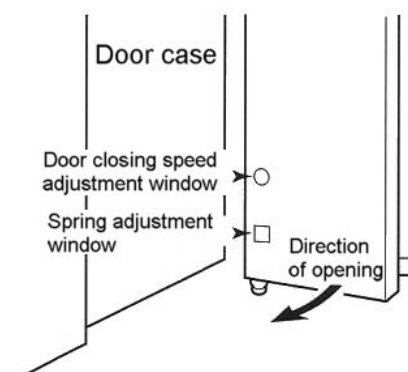
6. Adjust the Door Closing Speed



Note: Do not overturn the closing speed control gear when adjusting the door closing speed. Oil may ooze or leak to disable the speed adjustment, risking human injury. Replace the Auto Hinge immediately when the speed adjustment is found disabled.

7. Close the Adjustment Window

Cover the adjustment area with the decorative rubber plate supplied.



NITTO KOHKI CO., LTD.

Head Office:
9-4, Nakaikagami 2-chome, Ohta-ku, Tokyo 146-8555, Japan
Tel : +81-3-3755-1111 Fax : +81-3-3753-8791
E-mail : overseas@nitto-kohki.co.jp

Overseas Auto Hinge Sales Division:
8F, Orix Ueno bldg., 7-4-7 Ueno, Taito-ku, Tokyo 110-0005, Japan
Tel : +81-3-5806-1030 Fax : +81-3-3843-5188
E-mail : Kentokyo@nitto-kohki.co.jp

Web www.nitto-kohki.co.jp/e