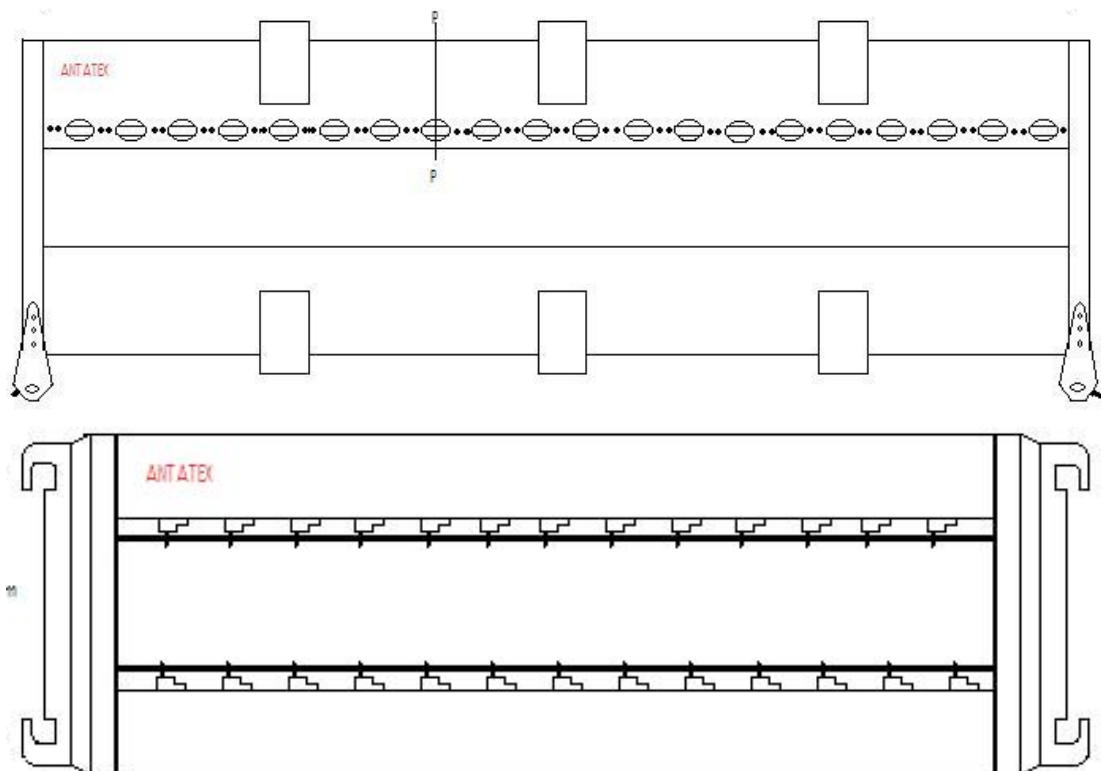


ANTATEX HEALD FRAMES

INSTRUCTION MANUAL

USE WISELY FOR LONGER SERVICE LIFE

**Thank you very much for purchasing
Antatex heald frame.**



Cautions

▪ Cautions for storage

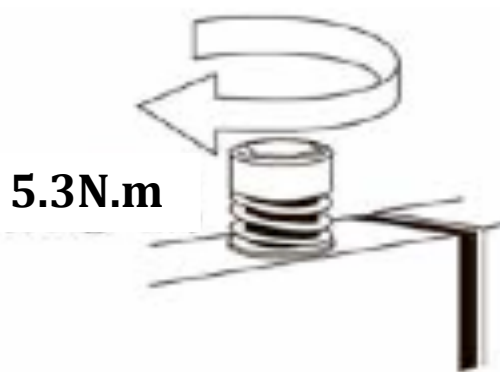
1. Store in a well ventilated indoor place.
2. Avoid storing in any place with unfavorable environment such as a place exposed to water, a place with high humidity, outdoors, a place subject to rain drops, a place with high temperature, etc.
3. Avoid placing against a wall or stack on the floor face, but store on a special stand as much as possible. If you stack heald frames on the floor face, the one at the lowest stage may be broken because of a heavy weight imposed on it. In addition, it also presents a risk of damaging the heald frames, due to accidental contact with a folk lift or a beam truck passing close by.
4. When placing the heald frame on a special frame, take care to hold the frame at a position as close to the side stay as possible.
5. Do not put any heavy object on the heald frame, or get on or step on it, as it may cause deformation, breakage or damage.
6. Wipe off any dirt found on the heald frame after each operation.
7. Avoid washing the heald frame with water or any solution, as it may cause rust, peeling of the guide plate or deterioration of quality.

▪ Cautions for carrying

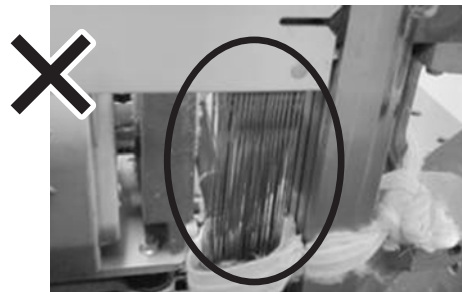
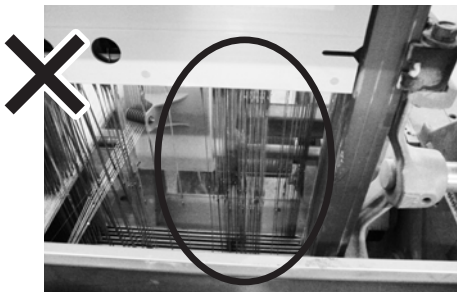
1. When carrying the heald frame, do not drop it or hit it against any object. Also take care to avoid applying any strong force on part of the heald frame.
2. For carrying the heald frame use a special trolley as much as possible.
3. Avoid lifting the heald frame by grasping the guide plate.

▪ **Cautions for using**

1. Fasten the bolt on the frame stave by a torque of 5.3N.m.
Every month and every time you change beam, take care for preventing the bolt from loosening. Excessive fastening and imperfect fastening may lead to breakage.



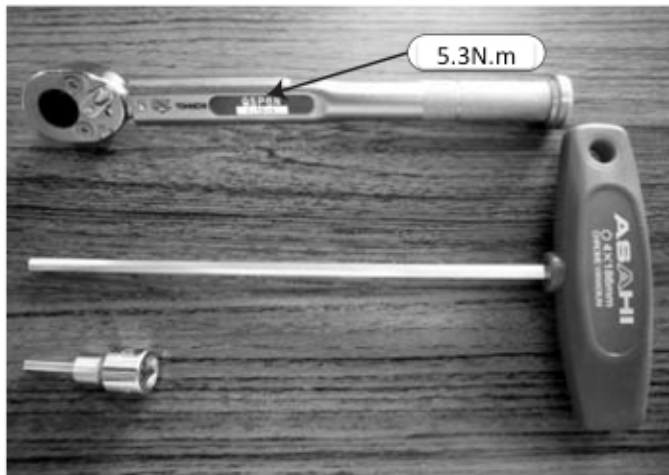
2. Heald frame will break, if a surplus heald is used.
The breakage by a surplus heald cannot take responsibility.



Disassembling & assembling procedure

- **Heald frame tool**

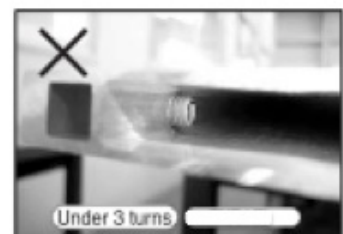
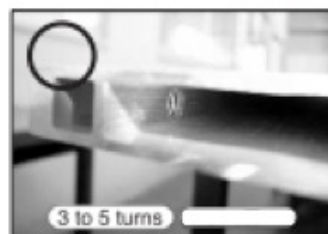
Side stay assembling tool



Note: Use a T – wrench for loosening the bolts, but avoid using the torque wrench except for assembling the side stay.

- **Side stay removing procedure**

1. Loosen the side stay set bolt by 3 to 5 turns by means of a T– wrench. If loosened by 3 – 5 turns , the bolt gets out of the holder completely but cannot be detached from the nut, and the side stay can be removed smoothly.

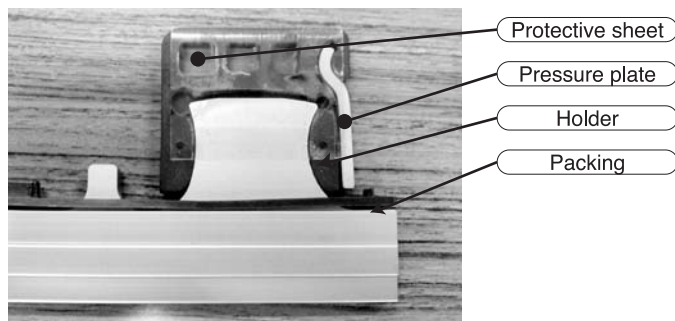


2. Raw out the side stay straight, while keeping the lower stave horizontal. If you draw the side stay forcibly in an oblique state, it may cause damage to the side stay holder, the protective sheet or the stave.

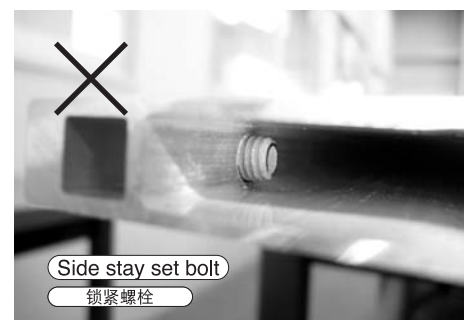


- **Side stay assembling procedure**

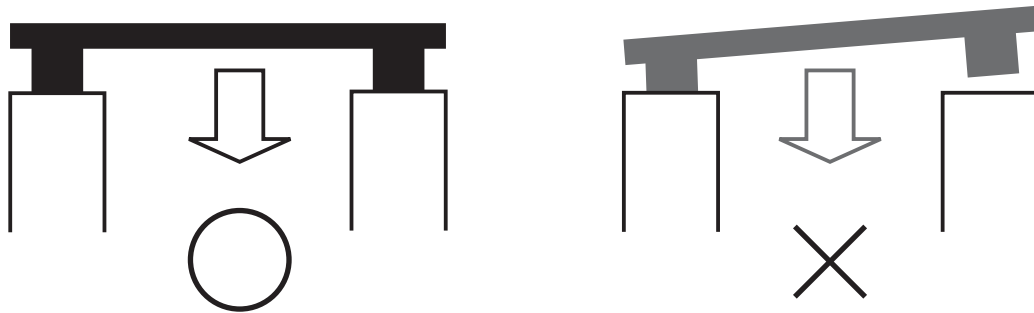
1. Check if the side stay packing, the stay holder, the pressure plate and the protective sheet are loaded onto the side stay. If you insert the side stay in the stave in a state without any of the parts, it may lead to breaking of the stave, the side stay holder or the side stay.



2. Look into the stave, to make sure that the tip of the side stay set bolts do not protrude.



3. Insert the side stay straight, while keeping the upper and the lower staves horizontal. If you insert the side stay forcibly in an oblique state, it may cause damage to the side stay holder, the protective sheet or the stave.



4. Insert accurately up to close contact so that no gap may be produced among the stave, the packing and the side stay.

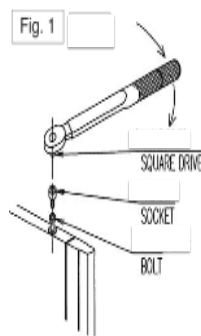


5. Tighten the center stay set bolt at 5.3N.m by using a 5.3N.m torque wrench. A “click” sound is heard when the prescribed torque 5.3N.m is reached, and the tightening is completed. Avoid any excess or insufficient tightening as it may cause damage to the holder, the side stay or the stave.
6. About the method of use of the torque wrench, rigorously observe the contents described in the “Handling of the torque wrench”.

Handling of the torque wrench

▪ Method of use

1. Insert the socket in the square drive.
2. Insert the socket in the head of the bolt.
3. Tighten by turning the torque wrench to the right. Stop when a “click” sound is heard, and the tightening is completed.




▪ How to apply force

1. Tighten gently without exerting any momentum. The torque value may shift at the position where a force is applied. Grip the effective length line of the knurl.

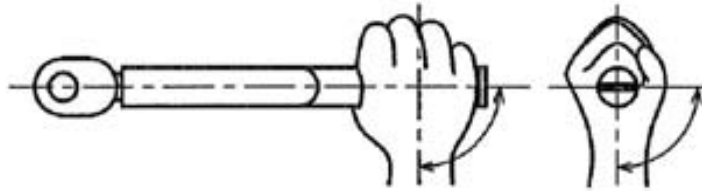


2. Direction of the force

A. It is the direction of the arrow mark  only.



B. Apply force at right angle against the torque wrench
(allowance $90^\circ \pm 15^\circ$)



$90^\circ \pm 15^\circ$ 以内/ 90° WITHIN 15°

- **Cautions of handling**

1. The torque wrench is also a precision measuring tool. Avoid throwing or using it in place of a hammer.
2. If you continue tightening even after hearing a “click” sound, it may cause damage to the torque wrench with an overtorque.
3. For the tightening, use only the direction of the arrow mark.
4. Although it is also possible to use it in the opposite direction by means of the switch lever, no “click” is heard even when the prescribed torque value is exceeded. If you continue tightening even after hearing a click sound, it may cause damage to the torque wrench with an overtorque. Limit the use in the opposite direction only to the case where the actual torque is apparently under the prescribed torque value.