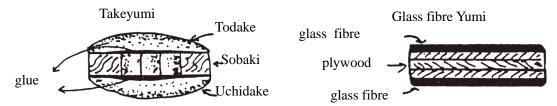
Kyudo Equipment Care

The minimum equipment necessary for Kyudo comprises the Yumi, Ya, Tsuru and Yugake (or Kake).

Yumi ⇒ As the Yumi is strung by reversing its natural curve to increase the mechanical stress and launch the Ya with maximum power, poor care of the Yumi may lead to irreversible damage. The structure of Takeyumi (bamboo Yumi), which are made of wood and bamboo glued together, and glass fibre Yumi is shown in the diagrams below.



Yumi are sensitive to moisture, especially when the temperature is high. Therefore, in Japan, special care should be taken during the rainy season that the Yumi is not exposed to humidity, and moisture be removed by wiping the Yumi with a dry piece of cloth. (Rubbing the Yumi down with oil is also a good way to prevent it from absorbing moisture.) *Vegetable oil should be used.

Additional Explanation

- The length of the Yumi is proportional to the size of the body, but nowadays the Namihoko with a standard size of 2.21 m (7 shaku 3 sun) is used by most people. (Taller people over 1.6 m use a Yumi which is called Nisun-nobi and is 2.27 m (7 shaku 5 sun) long.)
- ② $Ya \Rightarrow A Ya$ is made of one stalk of bamboo and three feathers.

The Ya which are used nowadays are either traditional Takeya (bamboo Ya) or metal Ya (made of aluminium). (More recently, there are also arrows made of glass fibres or carbon fibres.) Like Takeyumi, Takeya are sensitive to moisture and should be rubbed thoroughly until hot with a dry piece of cloth to prevent moisture from setting in.

(As for the Yumi, oil may be used as a sealer.)

(Ya can withstand strong longitudinal stress but get easily damaged by radial stress, so care must be taken while rubbing them.)

It is preferable to use Ya that are on the longer side for safety.

Additional Explanation

- Ya are divided in two types: Haya and Otoya. One Haya and one Otoya are used together as a pair called Hitote. Yotsuya refers to two pairs of arrows (Hitote) used together.
 When nocking the Hazu on the Tsuru, Hashiriba must be on top.
- 2) For the Japanese terms above, refer to the « Kyudo Equipment Terms » section.

③ Tsuru ⇒ Tsuru can be divided in Asazuru, the traditional type made of hemp fibres, and synthetic (Kevlar) Tsuru, the use of which is more recent. Traditional Asazuru are made of thin strands of hemp fibres spliced and twisted together. The Tsuru are then filled with Kusune to make them stronger, this is why they are slightly sticky.

Synthetic *Tsuru* are made of long synthetic threads twisted together. They are then strengthened with adhesive resin (similar to *Kusune*).

Asazuru become fluffy and prone to beaking as they dry. Therefore, they should be rubbed with Waraji (Magusune) each time the Yumi is strung.

Use energetic downward motions when rubbing the *Tsuru* with *Magusune* so as to keep with the direction of the twist. The *Nakajikake* also should be wrapped in the same direction as the twist of the *Tsuru*.

Additional Explanation

Kusune: Pine sap mixed with oil and boiled gently to a soft consistency.

It is applied on Asazuru to reinforce them. (This is not necessary on synthetic Tsuru.)

Magusune (generally called Waraji): used to add Kusune to the Asazuru. Heated by the friction with the string, the Kusune melts and fills in the Tsuru. (Do not use it on synthetic Tsuru, it is counterproductive: the Tsuru will get fluffy.)

Nakajikake (usually called *Shikake*): a string serving used to locate the nocking point and protect the string from wear. It can be made with strands of fibres taken from broken *Tsuru*.

If a Yugake is worn directly on the skin and absorbs sweat, or if it is accidentally put in contact with water, it will become hard and unusable. Therefore, a <u>Shitagake</u> should always be worn under the Yugake. Moreover, in wet weather, the Yugake naturally absorbs moisture from the air and should be set to dry. (Warning: do not dry under sunlight or use heat.) Dry the Yugake in airy shade. Be careful that the <u>Tsurumakura</u> does not lose its shape. For proper friction with <u>Giriko</u>, the <u>Bôshi</u> must be kept dry and care should be taken that the middle finger or the ring finger which is placed on top does not become sticky with sweat.

Additional Explanation

Shitagake: a cotton cloth worn under the Yugake to absorb sweat (usually white).

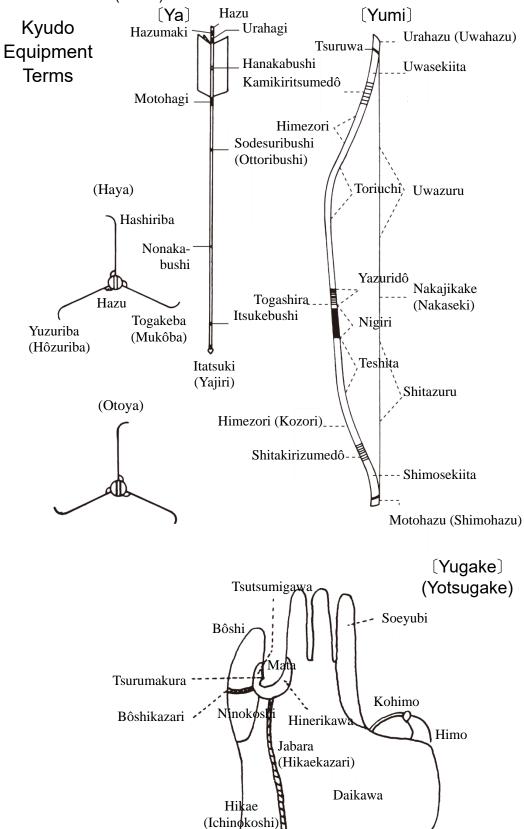
Tsurumakura: the place where the Tsuru is hooked on the Yugake.

Bôshi: the hard part of the thumb of the Yugake.

Giriko: a non-slip powder made from pine sap boiled down until almost all the oil has evaporated.

Additional Explanation

The usual types of Yugake are Mitsugake, Yotsugake and Morogake.
Beginners may use a special type of Yugake called Yawaraka-Bôshi ("soft Bôshi").



Terms for the Parts of the Kyudojo

Azuchi Kantekisho Kantekisho Yatori-Michi Ya-Michi Mato-Shômen Shaiݒ Kamiza (Jôi) Sadamenoza Honza Shinpanseki Waki-Shômen → --- Hikae-----+ + Deguchi Iriguchi[']