ENTER THE AGE OF EXCELLENCE

# YAMAHA
# TAKE DOWN BOW

GENERAL INSTRUCTIONS

NIPPON GAKKI CO., LTD

Yamaha's Tetrahedon Bow Series features an ideal surface treatment fully polish. Before using the bow, please read the following instructions. By using the proper care, it is recommended to use the Yamaha Tetrahedon Bow.

**Precautions on handling**

1. Be sure to remove the string from the bow when not in use.
2. In taking or carrying the bow, to order not to damage the bow, it is recommended to be taken with a chart and put them in the perfect case.
3. Properly place the bow with it not in storage to avoid the bow from being damaged.
4. Be careful not to be stretching without any proper tension, because it causes the bow to be warping.
5. Do not use the bow and, carefully wipe it off with a dry cloth (wearing the handkerchiefs gloves).
6. When using the bow for a long period of time, the bow's performance will be lost, so it is the right of attention.
7. The bow should be replaced from time to time depending on frequency of use.
8. Do not touch the bow's surface by the hands or body. Avoid a danger of breakage. Be sure to place the bow from time to time for serious or heavy.
9. Don't polish the bow yourself. Improper polishing causes the bow to be damaged.
10. The above precautions should be strictly observed. Failure to observe these points will cause the bow. Nip responsibility for any troubles caused for the bow.

This instruction manual has been prepared so that you can enjoy your Yamaha Take Down Bow.

Use with the bow entrusted to you and enjoying your horsemanship depends on the skill. It's called "Horse" and "Horse" is a living creature. Please, take care and cultivate it so as to be a horse.

## How to choose the string

**1. Material**

The materials used in today's strings are roughly classified into two categories "Natural or Synthetic and Metals. These two materials vary in their characteristics and influencing the bowstring.

A. Features of "Natural" Bowstrings
- Good tone quality
- Comfortable playing
- Prone with disadvantages

B. Features of "Metal" Bowstrings
- Powerful tone
- Prone to cross-stringing by heat due to lack of stretching
- Prone to cause the bow to be damaged, rather than the horse

Each string material has its advantages and disadvantages over the other.

In general, the Natural Bowstrings provides a tolerance and will stretching but it is easy to be influenced by the weather and humidity, and it is prone because of its long life and overcoarse bow mechanisms.

The Metals Bowstring material provides a higher degree of performance, but it is prone to be damaged by the horse.

Kaplan Strings are preferred by top artists because of its superior performance with flexible periodic maintenance requires some technical expertise.

**2. Thread number Bowstring thickness**

In wrapping strands of multiple strands together, doubers should use the proper number of strands to match the dropping weight of the horse and the performance of the bowstring.

It is recommended the string be change within the wrapping thickness of the bowstring though the stand number differs depending on the kind of the string.

| DROP WEIGHT | ~70 | 70~80 | 80~90 | 90~ |
|---|---|---|---|---|
| | 60 | ○ | | |
| BOW CHANGE | 80 | ○ | ○ | |
| | 100 | ○ | ○ | ○ |
| | 120 | ○ | ○ | ○ |
| | 140 | ○ | ○ | ○ |
| | 160 | ○ | ○ | ○ |
| | 180 | ○ | ○ | ○ |
| | 200 | ○ | ○ | ○ |
| | 220 | ○ | ○ | ○ |
| | 240 | ○ | ○ | ○ |
| | 260 | ○ | ○ | ○ |
| | 280 | ○ | ○ | ○ |
| | 300 | ○ | ○ | ○ |
| | 320 | ○ | ○ | ○ |
| | 340 | ○ | ○ | ○ |
| | 360 | ○ | ○ | ○ |
| | 380 | ○ | ○ | ○ |
| | 400 | ○ | ○ | ○ |
| | 420 | ○ | ○ | ○ |
| | 440 | ○ | ○ | ○ |
| | 460 | ○ | ○ | ○ |
| | 480 | ○ | ○ | ○ |
| | 500 | ○ | ○ | ○ |
| | 520 | ○ | ○ | ○ |
| | 540 | ○ | ○ | ○ |
| | 560 | ○ | ○ | ○ |
| | 580 | ○ | ○ | ○ |
| | 600 | ○ | ○ | ○ |

Fig. 1 Thread number Bowstring

| DROP WEIGHT | ~70 | 70~80 | 80~90 | 90~ |
|---|---|---|---|---|
| | 60 | ○ | ○ | ○ |
| BOW CHANGE | 80 | ○ | ○ | ○ |
| | 100 | ○ | ○ | ○ |
| | 120 | ○ | ○ | ○ |
| | 140 | ○ | ○ | ○ |
| | 160 | ○ | ○ | ○ |
| | 180 | ○ | ○ | ○ |
| | 200 | ○ | ○ | ○ |
| | 220 | ○ | ○ | ○ |
| | 240 | ○ | ○ | ○ |
| | 260 | ○ | ○ | ○ |
| | 280 | ○ | ○ | ○ |
| | 300 | ○ | ○ | ○ |
| | 320 | ○ | ○ | ○ |
| | 340 | ○ | ○ | ○ |
| | 360 | ○ | ○ | ○ |
| | 380 | ○ | ○ | ○ |
| | 400 | ○ | ○ | ○ |
| | 420 | ○ | ○ | ○ |
| | 440 | ○ | ○ | ○ |
| | 460 | ○ | ○ | ○ |
| | 480 | ○ | ○ | ○ |
| | 500 | ○ | ○ | ○ |
| | 520 | ○ | ○ | ○ |
| | 540 | ○ | ○ | ○ |
| | 560 | ○ | ○ | ○ |
| | 580 | ○ | ○ | ○ |
| | 600 | ○ | ○ | ○ |

Fig. 2 Thread number Bowstring

| DROP WEIGHT | ~70 | 70~80 | 80~90 | 90~ |
|---|---|---|---|---|
| | 60 | ○ | ○ | ○ |
| BOW CHANGE | 80 | ○ | ○ | ○ |
| | 100 | ○ | ○ | ○ |
| | 120 | ○ | ○ | ○ |
| | 140 | ○ | ○ | ○ |
| | 160 | ○ | ○ | ○ |
| | 180 | ○ | ○ | ○ |
| | 200 | ○ | ○ | ○ |
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| | 540 | ○ | ○ | ○ |
| | 560 | ○ | ○ | ○ |
| | 580 | ○ | ○ | ○ |
| | 600 | ○ | ○ | ○ |

Fig. 3 Thread number Bowstring

Yamaha strings of "Gator" have been made of Kaplan and are different from other brands. By employing the Kaplan material, Yamaha strings will have brands of Gator the merits. Gator's characteristic of Kaplan material has been 100% realized.

**3. Strong Weight**

The Weight, Height, or Bowing Height, of your bow is very important. The Bowing Height is the distance between the bowstring and the "J" string. Bowing too high or too low can extremely affect on it as well as cross-selection.

The following are suggested bowing heights for most recurve bows. Usually the ultimate bowing height will be found within these ranges. However, there are always exceptions which only the individual can determine.

$$B^{\circ} = \sin^{-1}\left(\frac{H-S}{L}\right) = \sin^{-1}\left(\frac{H-S}{L}\right)$$

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Bow in what bow are suggested strong heights and will not apply to all variety of bows. When the proper string height is achieved the bow will be bow around one and bow arrow flight is achieved.

**4. Nocking Point**

The nocking point is the point on the bowstring where the arrow should be nocked. Determining the nocking point may be difficult for some archers. In such a case, don't hesitate to consult more advanced archers.

The best method for determining the proper nocking point is to use the "Bow Stark Planning Tool". The procedure for performing this is as follows: Adjustment of the Quadrant Plunger, of the Bow Stark Arrows (or Arrows with the same spine characteristics) and the Bowstring.

## How to choose an arrow rest

The arrow rest is where the arrow is placed when shooting. There are a variety of the rests made of cloth, plastic or metal. They are available in a variety of sizes and shapes. Choose with the rest size and the other used combined with a cushion plunger.

Attention should be paid to the following points when choosing a rest:

1. Rest durability
2. Rest too stiff and stress (Metal is superior)
3. Rest variables to expansion, especially in cold-bow climates
4. Rest for matching parts in combination

There are occasions when the feature into the arrows rest which shooting depending on the archer's technique. In this case, it is necessary for the archer to fit the rest to the shooting that fitting.

## How to adjust the cushion plunger

Recently cushion plungers have been used as competition bows for more efficient shooting. For better nocking-in-bows, it is a special favor to Coaches have to adjust the cushion plunger.

Yamaha's "Quadrant Plunger" is a combination plunger "DX" and the "YCS" like a rubber cushion plunger (sweet sensitive), as standard equipment.

Use the cushion plunger paying careful attention to the following points:

1. Adjustment of the cushion plunger

The plunger adjustment is done by changing the rip tension and the cushion length. The rip tension is more or less radial. The same effect can be achieved by changing the rip tension and by tightening the cushion screw in the direction of the arrow.

(1) Hence adjust and use the cushion plunger "DX".
The "Yamaha Quadrant Plunger "DX" has been made to be adjustable to the Quadrant Plunger (conventional plastic) and durability (hence (2) to integrated. Further adjustment conversion is not required for the Quadrant.

(2) The plunger adjustment is made through the balance with spring pressure. These two elements are interrelated. The same effect can be achieved by changing the spring and by increasing the spring pressure by doing the reverse.

(3) Fine tuning adjustment is made through the balance and spring pressure. These two elements are interrelated. The same effect can be achieved by changing the spring and by increasing the spring pressure by doing the reverse.

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