



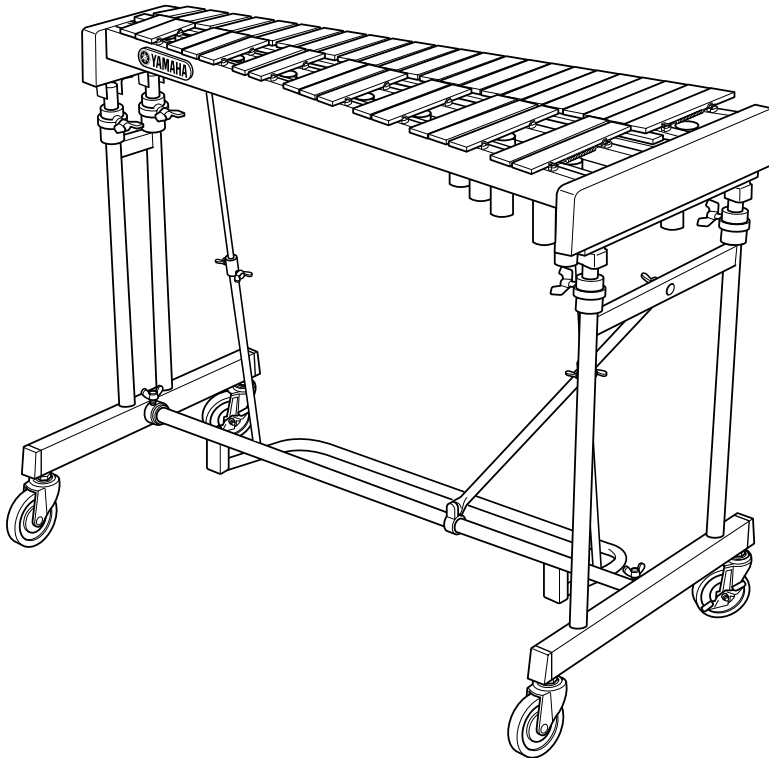
CONCERT GLOCKENSPIEL

YG2500

取扱説明書 / OWNER'S MANUAL

このたびは、ヤマハグlockenspielをお買い上げいただきまして、誠にありがとうございます。ご使用前にこの取扱説明書をお読みいただき、末永くご愛用ください。

Thank you for purchasing a YAMAHA Glockenspiel. Before using this instrument we urge you to read this Owner's Manual thoroughly, and keep it in a safe place for later reference.



組立ての前に、P.2「安全へのこころがけ」、P.3「ガスの取り扱いに関する注意事項」、P.4「末永くご使用いただくために」、P.6「部品の確認」を必ずお読みください。

Before starting assembly, be sure to read the following sections; “PRECAUTIONS FOR HANDLING GAS SPRING” pg 16, “TO GET THE MOST OUT OF YOUR INSTRUMENT” pg 17, “Parts Checklist” pg 19.

PRECAUTIONS FOR HANDLING GAS SPRING

Please observe the following instructions for proper handling of the gas spring.

1. Precautions for handling the gas spring



CAUTION

- ⊘ This gas spring requires no oil supply to its sliding section. Additional oil will reduce the sealing durability and cause the oil to leak.
- ⊘ Never apply any impact to the gas spring. It will cause oil leakage, malfunction or breakage.
- ⊘ Never disassemble the gas spring. As a high pressure gas is sealed in it, disassembling it will cause a high risk.
- ⊘ Note that there is not much rigidity in the bending direction. Depending on accuracy in its installation, the bending load will cause the rod to bend, resulting in malfunction.
- ⊘ Note that a nick on the piston rod or cylinder will shorten the service life of the sealing or cause a malfunction.
- ⊘ Do not expose the gas spring to an excessively high or low temperature. The allowable temperature range for use is -20°C to 80°C.
- ⊘ Avoid using the instrument where it is exposed to rain, water or much dust.
- ⊘ Do not apply an excessive force to lift the frame end and pull off the gas spring from the leg.

- Do not apply a high tensile load to the gas spring as it will cause damage to the gas spring.
- In the event of a failure, stop using the instrument and contact the shop of its purchase. If your dealer is unable to assist you, please contact Yamaha directly.

2. Instructions for discarding the gas spring



DANGER

Make sure to observe the following instructions when discarding the gas spring.
As pressurized nitrogen gas is sealed in the gas spring, be sure to release before discarding it. Or an explosion may occur, causing an injury.

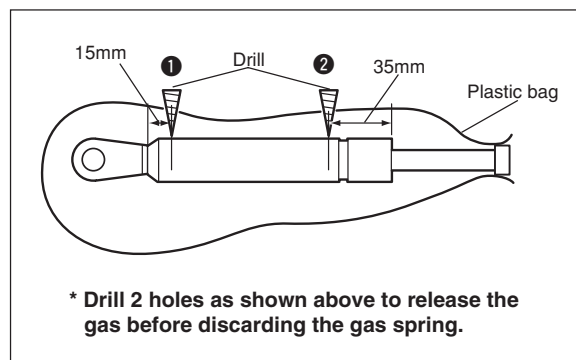
[PRECAUTIONS]

- A. Do not crash.
- B. Do not cut.
- C. Do not make a hole anywhere other than the specified positions (① and ② in the Fig.1).
- D. Do not throw it in the fire.

[Discarding procedure]

1. Put the gas spring in a plastic bag. Using a drill of 2 to 3 mm, make a hole ① from outside of the plastic bag at the position as specified in the figure to release the gas and oil and then make a hole ② at the position as specified. (Be sure to make holes in the order of ① and ②.)
2. If a plastic bag is not used, the oil and drill chips will spread. (In such a case, wear eye protection glasses.)

Fig. 1



TO GET THE MOST OUT OF YOUR INSTRUMENT

Please read the following instructions carefully before using your glockenspiel.

◆ Installation Location

Use or storage in the following locations may cause damage, even when packaged.

- In direct sunlight, such as near a window, or in a closed vehicle in daytime.
- Near heating devices or in other locations subject to excessive heat.
- In excessively cold environment.
- In places with excessive humidity or dust.
- Locations subject to vibrations.

◆ Handling

- Placing objects on or leaning against the instrument can damage the tone bars or the side frame. This can also lead to the instrument falling over, etc. as described in the “Precautions” section. Never do this as it is very dangerous.
- Do not use the glockenspiel’s mallets on a vibraphone, metalphone, etc. It can dent the tone bars or cause damage, which can result in poor pitch.

◆ Transporting the Instrument

- When transporting the disassembled instrument, remove the tone bars and resonator pipes from the glockenspiel and wrap them in a soft blanket, etc. for transport.
- When moving the instrument with its casters, make sure you adjust the instrument’s height to its lowest level. This puts the instrument’s center of gravity at a lower point for greater stability while moving.
- The instrument is sensitive to impacts. Treat the instrument with care when moving. Never drop or throw the instrument.
- If it is necessary to lift the instrument while moving it, always do so with at least two persons and using both hands to hold the side frames or legs. The instrument weighs about 36 kilograms.

◆ Maintenance

- The tone bars should be polished from time to time using a soft and dry cloth. Never use thinner or benzene or a wet cloth for cleaning purpose.

◆ Keep This Manual for Future Reference

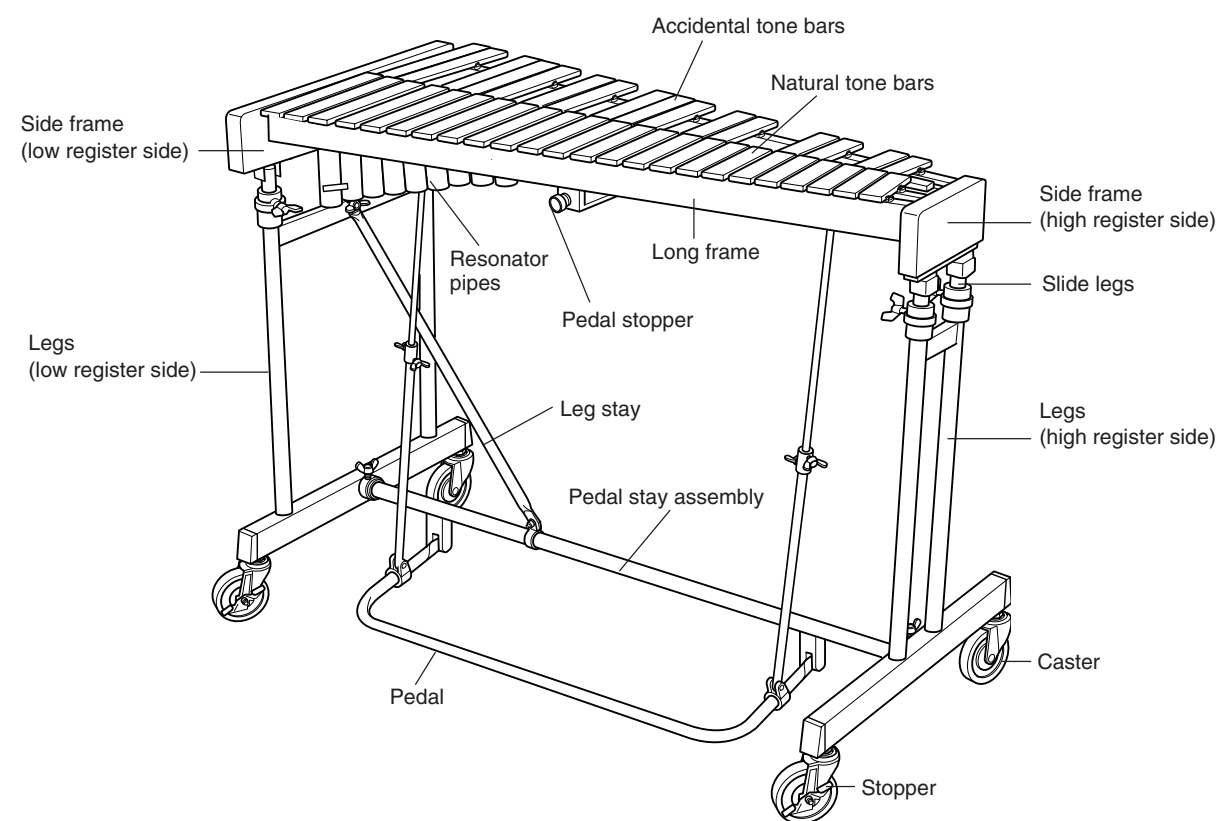
- After reading, make sure to keep the manual in a safe place.



Assembly Cautions

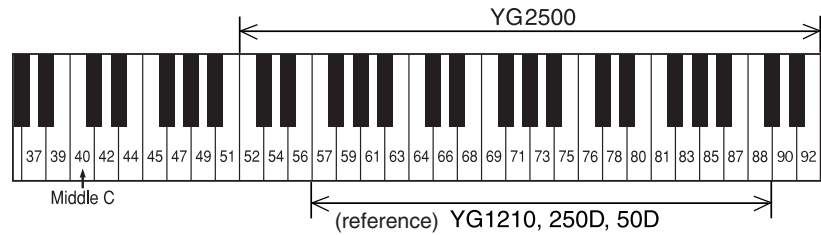
- When assembling/disassembling the instrument, make sure to follow the procedure outlined in this manual. Assembly in the wrong order can cause the pipes to drop which may result in an injury, impair the performance functionality of the instrument or cause noise.
- After final adjustment of the legs the fixing screws must be tightened securely to prevent loosening. Looseness may cause the instrument to shift during performance and can also cause noise and other problems. Retighten the screws from time to time.

Nomenclature



Specifications

	YG2500
Pitch Range	C52-E92 (3 1/2 octaves)
Tone Bar Material/Support	High Carbon Steel Tone Bars/Mounted with strings through holes drilled through the sides
Tone Bar Width/Thickness	32.5mm/9mm
Dimensions (WxDxH)	106.2cm x 56.4cm x 85-105cm (41-3/4" x 22" x 33-1/2"-44-3/8")
Weight	36kg (79 lbs)
Accessories	None



* Please note that specifications and/or design may change without notice.

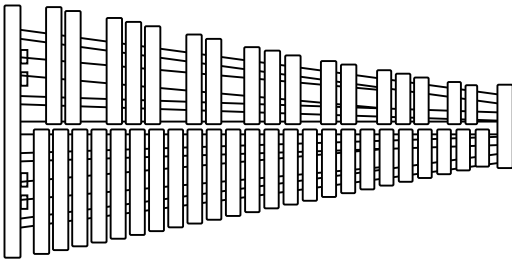
Parts Checklist

The following parts are included in the YG2500 package.

Before assembling the instrument, make sure that all parts are present and accounted for.

- * If any parts are missing, please contact the dealer from whom you purchased the instrument.

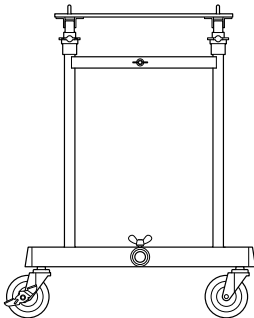
- ① **Glockenspiel main unit**
(consisting of the side assemblies, tone bars, and resonators).



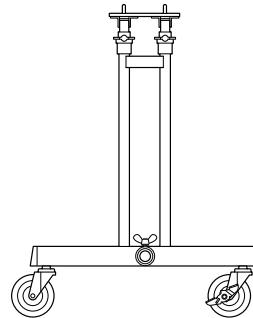
CAUTION

Do not remove the glockenspiel's main unit from the package until you are ready to start Step 2 "Attach the main unit of the glockenspiel to the legs" described on page 22. As the resonator pipes are already attached to the main unit, it will be unstable if placed on the floor, which can be very dangerous in addition to causing damage to the frame and pipes.

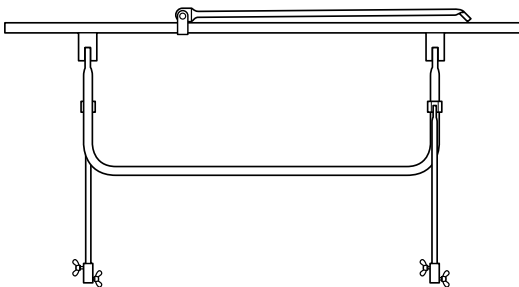
- ② **Legs (low register side)**



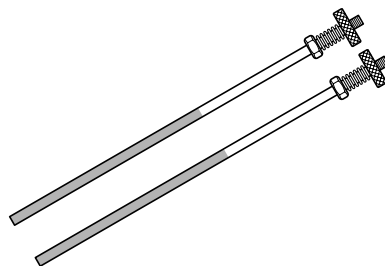
- ③ **Leg (high register side)**



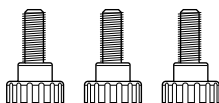
- ④ **Pedal stay assembly**



- ⑤ **Center rods x2**



- ⑥ **Main unit fixing knobs x3**



- ⑦ **Owner's Manual (this booklet) x1**

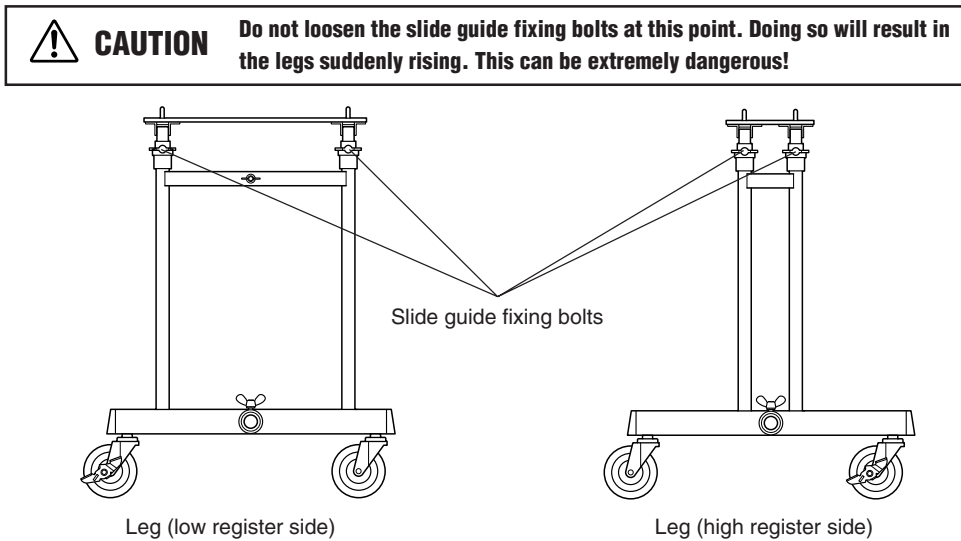
Assembly

For safety reasons, assembly should be performed with at least two persons and in a sufficient amount of space.

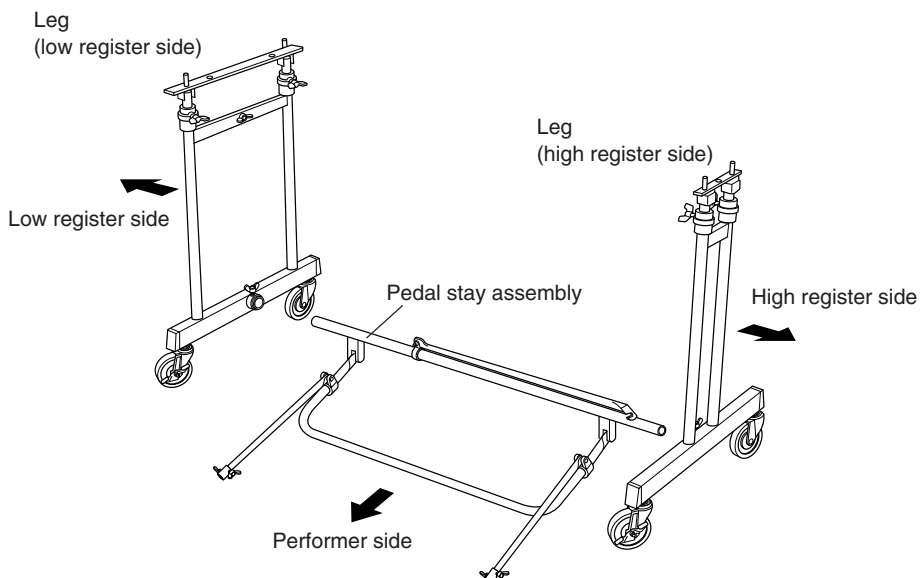
To protect the instrument from damage, we recommend that you assemble it on a carpet, soft cloth, etc., placed on a flat surface.

1 Connect the pedal stay assembly to both legs (low register and high register sides).

* Make sure that the slide guide fixing bolts on both legs are tightened firmly before performing this operation.



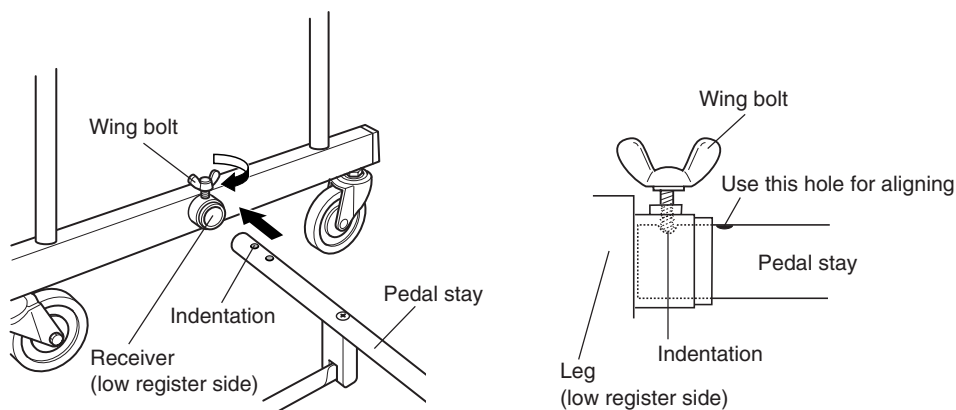
1-1 Position the pedal stay assembly and low and high register side leg assemblies as shown in the illustration below.



- 1-2** Position the pedal stay so the indentation is facing up, and insert the pedal stay all the way into the receiver (low register side) on the leg (at this point, the wing bolt's end is aligned with the indentation on the pedal stay), then tighten the wing bolt to secure.

Attach the pedal stay assembly to the high register side in the same manner.

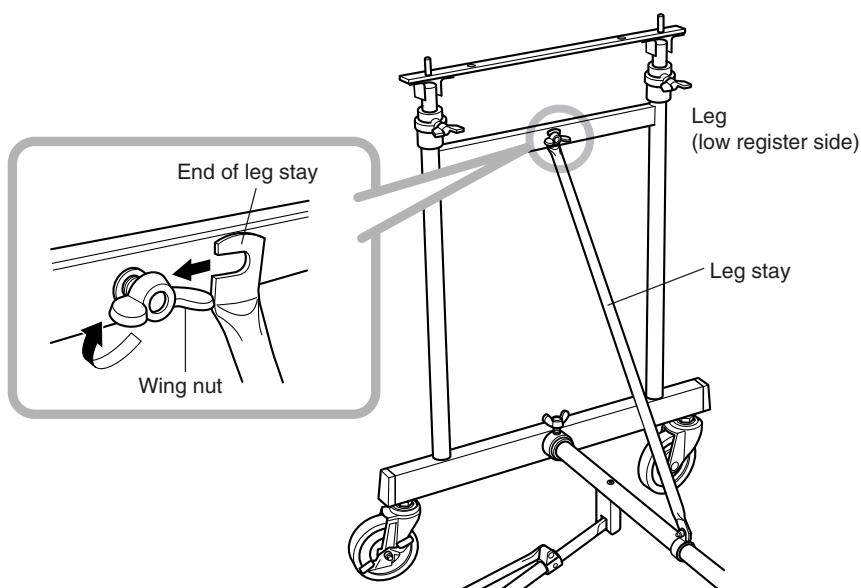
* Use the hole close to the indentation as a reference for aligning the pedal stay.



The illustration shows attachment of the pedal stay to the low register side.

- 1-3** After confirming that both right and left legs are standing vertically, attach one end of the leg stay that is attached to the pedal stay, onto the leg (low register side) using the wing nut located between the two upright legs, and tighten the wing nut to secure.

* Slide the end of the stay firmly onto the bolt.



2 Attach the main unit of the glockenspiel to the legs.



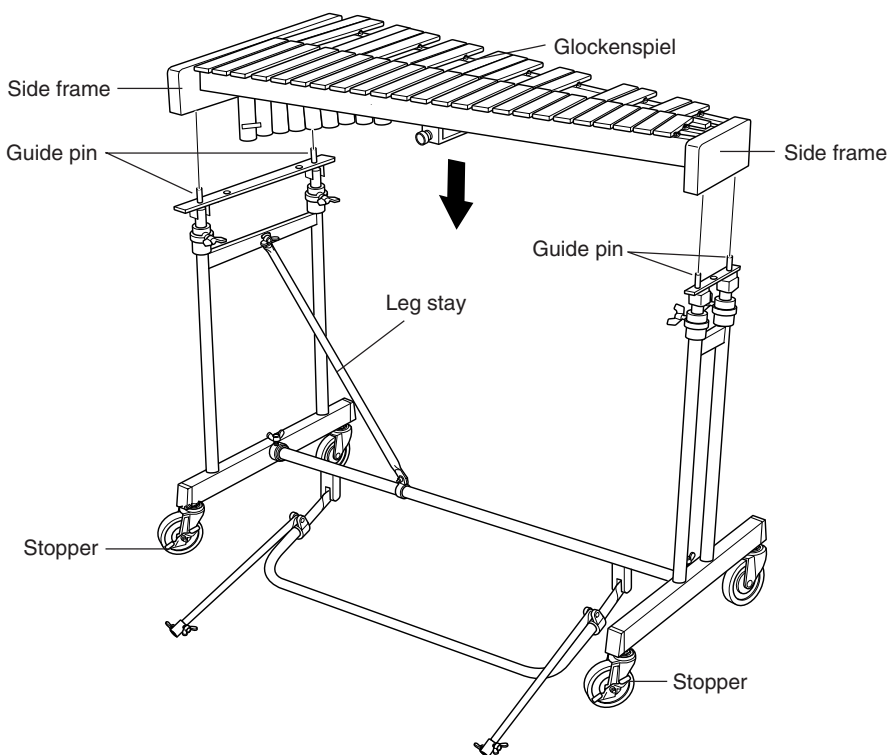
CAUTION

The glockenspiel is heavy so make sure that two persons carry out the operation. Also, take care not to pinch your fingers between the glockenspiel and the legs.

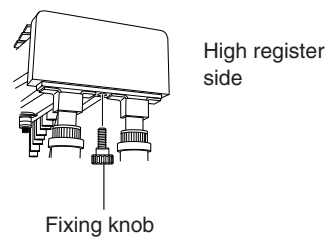
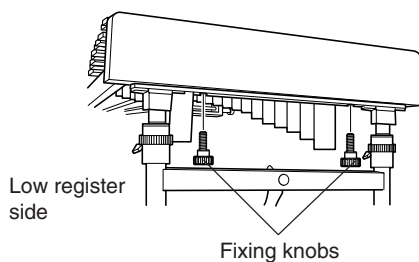
2-1 Lock the caster stoppers on either side so that the legs do not move about during the assembly.

2-2 Align the holes (two holes on each side) located on the underside of the side frames with the guide pins on the top of the legs and then place the glockenspiel main unit onto the legs.

** If the guide pins can not be aligned with the holes on the underside of the side frames, temporarily disconnect the leg stay and try again.*



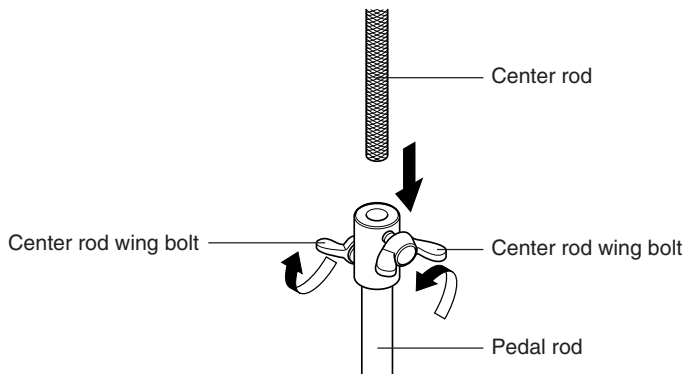
2-3 Use the fixing knobs (supplied) to secure the legs to the right and left side frames (two locations on the low register side and one location on the high register side).



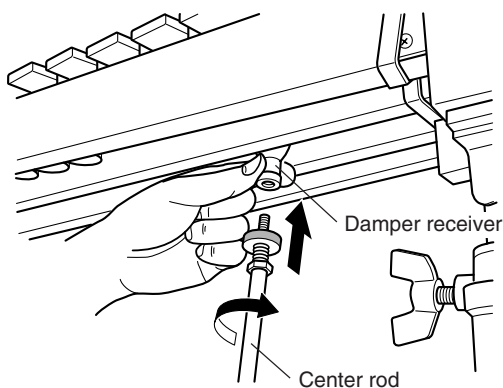
2-4 Connect the center rod to the damper receiver.

** This operation must be carried out on both low and high register sides.*

2-4-1 Loosen the center rod wing bolts (two locations) and insert the center rod into the pedal rod.



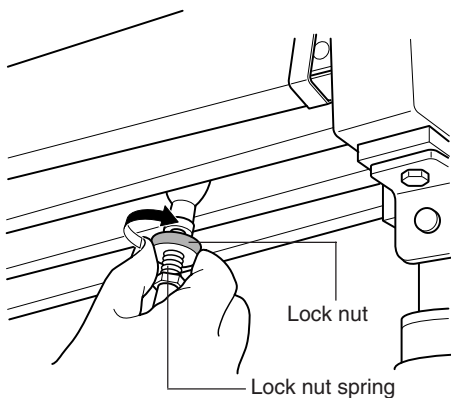
2-4-2 While supporting the damper receiver with your hand, insert the end of the center rod into damper receiver.



The illustration shows the attachment looking from the high register side.

2-4-3 Tighten the lock nut on the center rod to secure.

** When the nut becomes loose, or when the lock nut is set too high, the lock nut spring will be loose. This can be a source of noise so take care and adjust properly.*



Adjustments

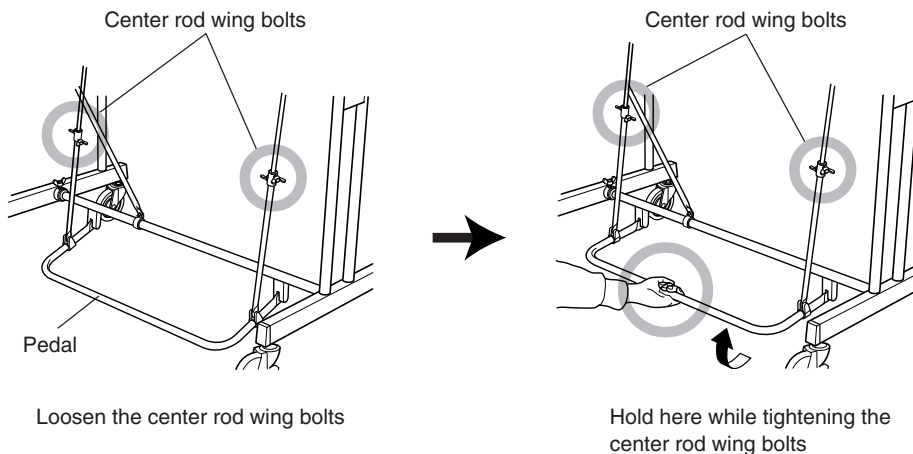
3 Adjustments

3-1 Pedal height adjustment

Loosen the center rod wing bolts (two each) on the right and left side center rods and hold the pedal up to adjust the pedal height (the space between the bottom of the pedal and the floor).

After determining the height, hold the pedal and tighten the center rod wing bolts (two each) on both right and left side center rods.

** 2-3cm of space between the bottom of the pedal and the floor should be adequate.*



3-2 Damper Adjustment

3-2-1 Rotate the damper adjustment nut 2 (thinner nut) to the left to unlock the damper adjustment nut 1 (thicker nut).

3-2-2 Rotate the damper adjustment nut 1 and adjust the damper (the amount of damper applied to the tone bars).

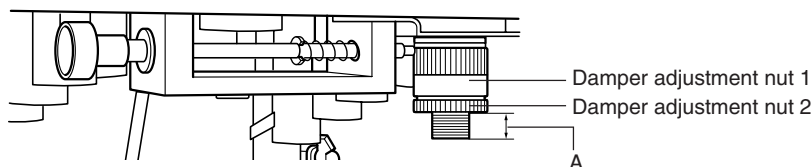
Rotate the damper adjustment nut 1 to the left Increases the amount of damper.

Rotate the damper adjustment nut 1 to the right Decreases the amount of damper.

3-2-3 After damper adjustment is complete, tighten the damper adjustment nut 2 to lock the damper adjustment nut 1.

** If the damper adjustment nut 2 is not tightened firmly, the damper adjustment nuts can drop off or cause noise.*

** A half damper effect can be obtained by lessening the amount of damper until the sound slightly sustains even though the pedal is not depressed.*



** If the space labeled "A" in the illustration is under 10mm, the damper stopper will not function properly. Make sure this space is more than 10mm.*

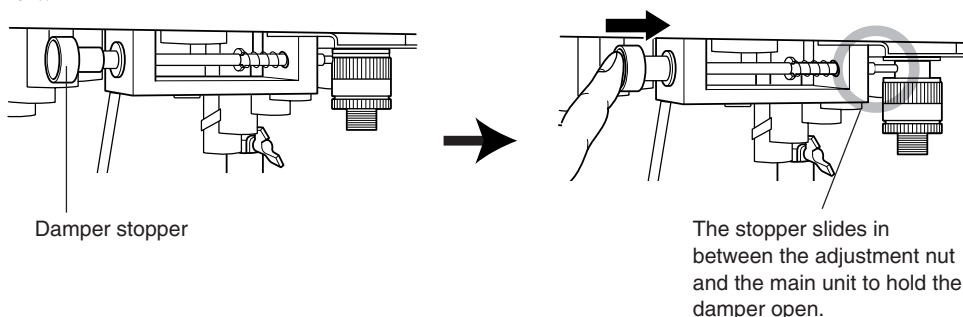
3-3 Using the damper stopper

Engaging the damper stopper, located on the performer side in the center of the long frame, holds the damper open (letting the tone bars sustain) without having to continuously press the damper pedal.

While holding the pedal down with your foot, press the stopper knob and remove your foot from the pedal. The pedal remains in the lowered position and locked.

Press on the pedal again to automatically disengage the stopper and restore normal operation.

** If pedal height adjustment in step 3-1 "Pedal height adjustment" is set too low, the damper stopper may not function properly. Please set the space between the bottom of the pedal and the floor to more than 2cm.*



4 Adjusting the tone bar height



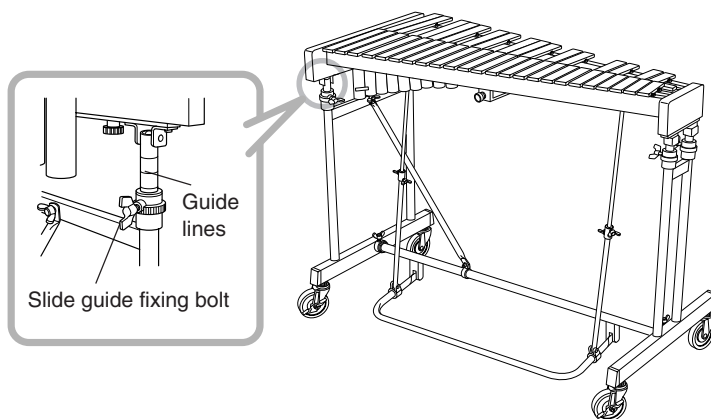
CAUTION

When loosening the slide guide fixing bolts be sure to hold down the side frame from above. The side frame can suddenly rise which is extremely dangerous.

Holding down both low and high register side side frames, loosen the slide guide fixing bolts.

After adjusting the instrument to a comfortable height, tighten the slide guide fixing bolts to secure. Use the guide lines on the slide legs as a reference and adjust the height so that the instrument's playing surface is parallel to the floor.

After assembly is complete, make sure all nuts and bolts are tightened firmly.



The brown felt attached to both sides of the glockenspiel's main unit and the cardboard attached at two positions on the low register side are part of the packing materials used to hold the tone bars in place. After assembly is complete, pull on the felt and cardboard to remove.

コンサートグロッケンシュピール YG2500

ガススプリングについてのご説明

CONCERT GLOCKENSPIEL YG2500

A Note on the Gas Springs

本製品におきましては、脚パイプ4本のうち2本にガススプリングを装備しており、低音側は**演奏者側**、高音側は**演奏者の反対側**に配置されております。低音側のスライドガイド固定ネジを緩めると、ガススプリングの入っていない反対側の側板が多少下がりますが、これは故障ではありません。

高さ調整の際は、スライド脚に刻まれている目盛りを参考に、音板と床面が平行になるよう調整してください。そのときは、ガススプリングの入っていない側の側板を多少持ち上げていただく必要があります。

Two of the YG2500's four legs are equipped with gas springs. One on the low pitch end on the **performer's side** and another on the high pitch end on the **audience side**.

When loosening the slide guide bolts on the low pitch end legs, the side of the frame not equipped with the gas spring will be slightly lower however; this is normal and not a sign of any problem.

When adjusting instrument height, use the guide lines on the slide legs as a reference and adjust the height so that the tone bars are parallel with the floor. At this time, it will be necessary to slightly lift the side of the frame without gas springs.

