

*T*hank you for choosing Yamaha. We prepared this owner's manual to inform you on how to properly care for your low brass instrument.

Inside you will see examples of what you should do to help keep your low brass instrument playing correctly and sounding its best.



Caring for Your Low Brass Instrument

The following care is recommended to extend the life and maintain the quality of your low brass instrument. Take extra care to prevent exposure to sudden changes in temperature and humidity. Avoid direct, extended exposure to:

- Sunlight
- Rain
- Heaters
- Air Conditioners

Remove all moisture after you have finished playing.

Refer to *Caring for the Interior of your Low Brass Instrument* on page 4 for detailed instructions.

Assembling Your Low Brass Instrument

Assemble, tune, clean and lubricate your instrument for the first time under the guidance of your instructor.

Inserting the Mouthpiece

The mouthpiece and mouthpiece receiver are easily damaged by improper assembly. Insert the mouthpiece into the receiver, giving it a slight twist to secure it. Never force a mouthpiece into place, as it may become stuck. If this should happen, take the horn to your local dealer or band director to have it removed. They will have a special tool to remove stuck mouthpieces. Never use pliers or other gripping tools to remove a stuck mouthpiece.

Tuning Your Low Brass Instrument

- Pitch is affected by temperature, so be sure to warm up your instrument before playing by blowing air through it.
- To tune low brass instruments, adjust the tuning slide until you achieve the desired pitch.
- To fine tune your horn, adjust the individual tuning slides connected to each valve casing. Consult your instructor when doing this for the first time.



Caring for the Interior of Your Low Brass Instrument

Care of Valves and Valve Casings

The valves and valve casings are very important parts of your instrument. Take extra care not to bend or scratch them. The following steps should be taken before and after each use of the horn.

Applying Oil to the Valves

- Unscrew the top valve cap from the valve casing.
- Pull out the valve in a straight line — do not twist.
- Apply valve oil (YAC 0900P), coating the entire valve.
- Place the valve carefully back into the proper casing, aligning the valve guide with the guide slot. Tighten the top valve cap. Move up and down to ensure even oil coating over the entire surface.

If there is any damage to the valves or valve casings, take your instrument to your dealer for repair.

Oiling the Rotary Valves

- Remove valve slides one at a time.
- Place several drops of rotor oil (YAC 1002P) evenly into the valve slide, insert slide all the way back into slide tube, then turn horn over to let the oil run on to the rotor.
- Depress lever to activate appropriate rotary valve, spreading the oil evenly on the rotor and casing. Do steps 1-3 until all rotors are oiled.

1. Apply a few drops of rotor spindle oil (YAC 1013P) to the rotor stem between the stop arm and the casing.
2. Carefully remove valve cap and apply a few drops of rotor spindle oil to the bearings. Activate rotor and replace the cap.
3. Apply a drop of lever oil (YAC 1014P) to each linkage of the lever assembly.



NOTE: Do not remove the rotary valves. Only a qualified repair technician should do this during annual maintenance.

Lubricating the Tuning Slides

Slide grease (YAC 1011P) keeps slides airtight and maintains smooth movement. It is an essential factor in the care of your horn. To apply slide grease:

- Remove slide while pressing the corresponding valve. Wipe clean of dirt and foreign substances.
- Apply a thin layer of tuning slide grease (YAC 1011P) to the inner slide surfaces.
- Replace the slide, working it in to ensure that the grease is evenly and thoroughly spread.



Cleaning the Water Keys

A tone hole cleaner (YAC 1049P) may be used to clean and dry water keys.

Cleaning the Mouthpiece

- Soak the mouthpiece in a solution of warm soapy water. Using a brass mouthpiece brush (YAC 1084P), scrub the inside and outside of the mouthpiece.
- Rinse thoroughly with clean, warm water.

Restraining the Rotary Valve

Note: Only use string designed specifically for rotary valves. (YAC 080000)

You will need a small screwdriver, scissors and rotary string to restring your valves. Please follow these directions carefully:

- Rotary valve components should appear as in illustration 1 when the rotor stem is to the left of the rod, or as in illustration 2 when the rotor stem is to the right of the rod.
- Loosen screws (C) and (E) with a small screwdriver. Cut a piece of string approximately nine inches long and tie a knot in one end. Begin by threading the string through the hole at the bottom of the rod (A). Start from the outside of the rod and thread toward the valve. The knot must provide a stop at the hole.
- With the stop arm (B) to the right of the rod (A), bring the string around the top of the rotor stem in a clockwise direction, then loop the string entirely around the small screw (C) in a counter clock-wise direction.
- Continue around the bottom of the stop arm (B) to the hole (D) near the top of the rod. Thread the string through this hole and loop it under the head of the small screw (E) on the rod in a clockwise direction.
- Now pull the string fairly taut so that no lost motion occurs when depressing the trigger lever. Tighten screw (E) enough to hold the lever in place.
- Position the lever so the string rod is parallel to the rotor-casing top.
- Tighten the string screw. (C).



Illustration 1

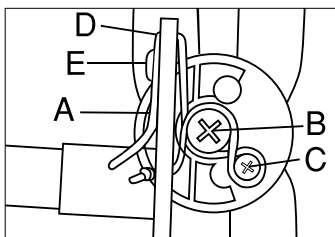


Illustration 2

Caring for the Exterior of Your Low Brass Instrument

For daily care, use a Yamaha polishing cloth (YAC 1099P) to remove dust and fingerprints.

Storing the Instrument



The case should always be used for storing the instrument after playing and for transporting. Be sure the mouthpiece and other accessories are secured tightly, as they can scratch and dent your horn if they fall loose during transportation. Do not put anything in the case that could place pressure on the instrument.

To keep your instrument in optimum playing condition, have it professionally cleaned and inspected by a qualified repair technician annually.



Yamaha accessories for low brass are the perfect companions for your instrument.

Many of our accessories are designed to keep your instrument playing and sounding wonderfully, while others make practicing and performing easier and more enjoyable.

Please visit your local Yamaha accessory dealer to purchase or order any of the following high-quality products.

Visit us on the web at
www.yamaha.com/band

Accessories



- Low Brass Maintenance Kit
YAC 1039
 Piston Valve Kit
YAC 1040
 Rotary Valve Kit



- Chromatic Tuners
TD-1
TD-2
TD-10
TD-20



- Metronome
 Available in Black,
 Blue, Gray or Pink
ME-100



- Silent Brass
MU-BBSILENT



- Silent Brass
MU-EPSILENT



- Yamaha Music Stand
MS-300AL



• Replacement Low Brass Cases

YAC AHC-33	YAC EPC-32	YAC BBC-67
YAC AHC-61	YAC EPC-62	YAC BBC-68
YAC MPC-21M	YAC EBC-32	YAC BBC-81
YAC BHC-31	YAC BBC-27	YAC CBC-81
YAC BHC-301M	YAC BBC-27M	YAC FBC-81
YAC BHC-61	YAC BBC-32	YAC SHC-42
YAC EPC-31	YAC BBC-62	
YAC EPC-31M	YAC BBC-63	



• Gig Bags

- YAC 1370-Tuba
- YAC 1371-Tuba

Additional Accessories

• Brass Mouthpiece Brush	YAC 1084P
• Brass Soap	YAC 1062P
• Flexible Cleaning Rod - Small	YAC 1077P
• Lacquer Polish	YAC 1060P
• Lever Oil	YAC 1014P
• Polishing Cloth	YAC 1099P
• Rotor Oil	YAC 1002P
• Rotor Spindle Oil	YAC 1013P
• Silver Polish	YAC 1061P
• Slide Grease	YAC 1011P
• Tone Hole Cleaner	YAC 1049P
• Treated Polishing Cloth - Medium	YAC 1096P
• Treated Polishing Cloth - Large	YAC 1097P
• Valve Casing Brush	YAC 1083P
• Valve Casing Cleaning Rod	YAC 1666P
• Valve Oil	YAC 0900P