



Long & McQuade

MUSICAL INSTRUMENTS 

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**Band and Orchestra
Repair Price List & Guide**

December 2015

Bench Rate

Services or repairs which do not have a fixed rate will be billed at the bench rate of \$72 per hour (\$1.20 per minute) with a minimum charge of \$15.

Fixed Rates

Most common services and repairs have a fixed rate listed in the sections below.

Some repairs or services can present unexpected complications and may require additional labour charges beyond the fixed rate, in these cases you will be contacted with a revised estimate.

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Horn Repair Rates

Flute & Piccolo

- In the event that the repair cost exceeds the original estimate, the customer will be contacted for approval.
- All prices listed below include parts.

	DESCRIPTION OF REPAIR	TOTAL ESTIMATE	
# 1 Play Condition	<ul style="list-style-type: none"> • Clean and seat necessary pads • Precision key adjustment • Tuning cork checked and adjusted • Oil and play test. 	Flute	\$72
		Open Hole	\$84
		Piccolo	\$84
# 2 Minor Alignment	<ul style="list-style-type: none"> • Minimal cleaning • Replace necessary pads (up to three) • Replace necessary key corks • Clean and seat all pads • Precision key adjustment • Tuning cork checked and adjusted • Oil and play test. 	Flute	\$115
		Open Hole	\$130
		Piccolo	\$130
# 3 Major Alignment	<ul style="list-style-type: none"> • Major cleaning • Hand polish body and keys • Replace necessary pads (four to eight), • Replace necessary key corks • Minor joint refitting • Clean and seat all pads • Precision adjust, oil, and regulate keys • Tuning cork adjusted or replaced • Play test. 	Flute	\$200
		Open Hole	\$225
		Piccolo	\$225
# 4 Overhaul	<ul style="list-style-type: none"> • Ultrasonic or chemical cleaning • Silver dip and hand polish body and keys • Replace all pads • Replace all key corks • Springs replacement where necessary • Dents removed • Joints refitted • Clean and seat all pads • Precision adjust, oil, and regulate keys • Tuning cork replaced • Play test. 	Flute	\$420
		Open Hole	\$500
		Piccolo	\$500
		Open Hole Professional	\$1,200
Add \$25 for instruments with B foot. Professional instruments by estimate only.			

Clarinet, Oboe & Bassoon

- In the event that the repair cost exceeds the original estimate, the customer will be contacted for approval.
- All prices listed below include parts.

	DESCRIPTION OF REPAIR	TOTAL ESTIMATE	
# 1 Play Condition	<ul style="list-style-type: none"> • Clean and seat necessary pads • Adjust and regulate keywork • Oil and play test. 	Bb Clarinet	\$65
		Alto Clarinet	\$170
		Bass Clarinet	\$170
		Oboe	\$170
		Bassoon	\$200
# 2 Minor Alignment	<ul style="list-style-type: none"> • Minimal cleaning • Replace necessary pads (up to 4) • Replace necessary key corks • Clean and seat necessary pads • Replace one tenon cork • Adjust and regulate keywork • Oil and play test. 	Bb Clarinet	\$100
		Alto Clarinet	\$275
		Bass Clarinet	\$275
		Oboe	\$275
		Bassoon	\$320
# 3 Major Alignment	<ul style="list-style-type: none"> • Major cleaning • Replace necessary pads (5 to 8) • Replace necessary key and tenon corks • Check and tighten loose posts • Straighten twisted keys and rods • Clean and seat all pads • Precision adjust, oil and regulate keys • Play test. 	Bb Clarinet	\$180
		Alto Clarinet	\$450
		Bass Clarinet	\$450
		Oboe	\$450
		Bassoon	\$670
# 4 Overhaul	<ul style="list-style-type: none"> • Ultrasonic or chemical cleaning • Silver dip and hand polish keys • Replace all pads • Replace all key and tenon corks • Check and tighten loose posts • Spring replacement where necessary • Straighten twisted keys and rods • Clean and seat all pads • Precision adjust, oil and regulate keys • Oil bore and exterior *(wood body) • Tenon rings refitted • Play test. 	Bb Clarinet	\$420
		Alto Clarinet	\$880
		Bass Clarinet	\$900
		Oboe	\$900
		Bassoon	\$1,400
	<ul style="list-style-type: none"> • Additional cost for full conservatory and professional instruments. 		

Saxophone

- In the event that the repair cost exceeds the original estimate, the customer will be contacted for approval.
- All prices listed below include parts.

	DESCRIPTION OF REPAIR	TOTAL ESTIMATE	
# 1 Play Condition	<ul style="list-style-type: none"> • Minor key leveling • Regulate adjusting screws • Oil and Play test. 	Soprano	\$85
		Alto	\$75
		Tenor	\$85
		Baritone	\$130
# 2 Minor Alignment	<ul style="list-style-type: none"> • Minimal cleaning • Replace necessary pads (up to five) • Replace necessary key corks • Clean and seat necessary pads • Replace neck cork if necessary • Minor key leveling • Regulate adjusting screws • Oil and Play test. 	Soprano	\$155
		Alto	\$130
		Tenor	\$170
		Baritone	\$250
# 3 Major Alignment	<ul style="list-style-type: none"> • Major cleaning • Replace necessary pads (up to ten) • Replace necessary key corks • Clean and seat all pads • Replace neck cork if necessary • Minor dent work • Regulate and adjust throughout • Oil and Play test. 	Soprano	\$390
		Alto	\$360
		Tenor	\$390
		Baritone	\$500
# 4 Overhaul	<ul style="list-style-type: none"> • Ultrasonic or chemical cleaning • Replace all pads • Replace all key corks, felts and bumpers • Spring replacement where necessary • Replace neck cork • Refit neck tenon • Straighten twisted keys and rods • Major dent work and alignment • Level warped tone holes • Seat and level pads • Precision adjust and regulate keys • Oil, lubricate and play test 	Soprano	\$775
		Alto	\$720
		Tenor	\$800
		Baritone	\$1,200
<ul style="list-style-type: none"> • Additional charge for all silver plated instruments. • Additional charge for professional and vintage instruments. 			

Piston Brass

- In the event that the repair cost exceeds the original estimate, the customer will be contacted for approval.
- All prices listed below include parts.

	DESCRIPTION OF REPAIR	TOTAL ESTIMATE	
# 1 Ultrasonic & Play Condition	<ul style="list-style-type: none"> • Ultrasonic or chemical cleaning • Replace corks, felts and springs where necessary • Oil and Play test. 	Trumpet & Cornet	\$75
		Valve Trombone	\$100
		Baritone (3 valve)	\$110
		Euphonium (4 valve)	\$150
		Tuba (3 valve)	\$140
		Tuba (4 valve)	\$180
# 2 Ultrasonic & Minor Alignment	<ul style="list-style-type: none"> • Ultrasonic or chemical cleaning • Free stuck valves and slides • Replace corks, felts and springs where necessary • Minor dent removal • Minor solder work • Oil and Play test. 	Trumpet & Cornet	\$145
		Valve Trombone	\$160
		Baritone (3 valve)	\$180
		Euphonium (4 valve)	\$250
		Tuba (3 valve)	\$250
		Tuba (4 valve)	\$290
# 3 Ultrasonic & Major Alignment	<ul style="list-style-type: none"> • Ultrasonic or chemical cleaning • Free stuck valves and slides • Replace corks, felts and springs • Body and valve alignment • Major dent removal • Major solder work • Oil and Play test. 	Trumpet & Cornet	\$400
		Valve Trombone	\$425
		Baritone (3 valve)	\$600
		Euphonium (4 valve)	\$750
		Tuba (3 valve)	\$900
		Tuba (4 valve)	\$1,200
	<ul style="list-style-type: none"> • Additional charge for all silver plated instruments. • Additional charge for professional and vintage instruments. 		

Rotary Valve Brass

- In the event that the repair cost exceeds the original estimate, the customer will be contacted for approval.
- All prices listed below include parts.

	DESCRIPTION OF REPAIR	TOTAL ESTIMATE	
# 1 Ultrasonic Play Condition.	<ul style="list-style-type: none"> • Ultrasonic or chemical cleaning • Replace corks, felts and springs where necessary • Restring and align rotary valves • Oil and Play test. 	Single French Horn	\$110
		Double French Horn	\$160
		Tuba	\$280
# 2 Ultrasonic & Minor Alignment	<ul style="list-style-type: none"> • Ultrasonic or chemical cleaning • Replace corks, felts and springs where necessary • Free stuck valves and slides • Replace bumpers • Restring and align rotary valves • Minor dent removal • Minor solder work • Oil and Play test. 	Single French Horn	\$275
		Double French Horn	\$325
		Tuba	\$500
# 3 Ultrasonic & Major Alignment	<ul style="list-style-type: none"> • Ultrasonic or chemical cleaning • Free stuck valves and slides • Replace corks, felts and springs • Replace bumpers • Restring and align rotary valves • Major dent removal • Major solder work • Oil and Play test. 	Single French Horn	\$530
		Double French Horn	\$720
		Tuba	\$1,250
Additional charge for all silver plated instruments.			
<ul style="list-style-type: none"> • Additional charge for professional and vintage instruments. 			

Slide Trombone

- In the event that the repair cost exceeds the original estimate, the customer will be contacted for approval.
- All prices listed below include parts.

	DESCRIPTION OF REPAIR	TOTAL ESTIMATE	
# 1 Ultrasonic & Play Condition.	<ul style="list-style-type: none"> • Ultrasonic or chemical cleaning • Replace corks, felts and springs where necessary • Restring ,align and oil rotors • Replace bumpers • Hand Slide is shipped dry 	Trombone	\$75
		Trombone w. F attachment	\$110
		Bass trombone	\$140
		Valve trombone * see piston brasses	
# 2 Ultrasonic & Minor Alignment	<ul style="list-style-type: none"> • Ultrasonic or chemical cleaning • Align hand slide • Free stuck rotors and slides • Replace corks, felts and springs where necessary • Restring ,align and oil rotors • Replace bumpers • Minor dent removal • Minor solder work • Hand Slide is shipped dry 	Trombone	\$145
		Trombone w. F attachment	\$180
		Bass trombone	\$220
		Valve trombone * see piston brasses	
# 3 Ultrasonic & Major Alignment	<ul style="list-style-type: none"> • Ultrasonic or chemical cleaning • Align hand slide • Free stuck rotors and slides • Replace corks, felts and springs • Restring ,align and oil rotors • Replace bumpers • Major dent removal • Major solder work • Hand Slide is shipped dry 	Trombone	\$450
		Trombone w. F attachment	\$660
		Bass trombone	\$780
		Valve trombone * see piston brasses	

- Additional charge for all silver plated instruments.
- Additional charge for professional and vintage instruments.

Miscellaneous Work

- In the event that the repair cost exceeds the original estimate, the customer will be contacted for approval.
- All prices listed below include parts.

DESCRIPTION OF REPAIR	PRICE
WOODWINDS	
Joint refitting (flute)	\$65+ per joint
Tuning cork replaced (flute)	\$25
Refit rings (clarinet & oboe)	\$10 per ring
Tenon corks replaced (clarinet & oboe)	\$30 per tenon
Tenon corks replaced (bass clarinet & bassoon)	\$45 per tenon
Neck cork replaced (sax)	\$40
Refit Loose Neck (sax)	\$72
Lead soldering	\$40 per joint
Silver solder broken key	\$72 per key
Spring replacement	\$50 each
Dent removal	By estimate
Key fabrication	By estimate
Custom work	By estimate
Replating	By estimate
Relacquer	By estimate
BRASS	
Free stuck mouthpiece	Free
Waterkey spring and cork replacement	\$20
Amado waterkey installation	\$75
Restring and level rotary valve levers	\$30 per lever
Replace bumper stops, align rotors.	\$40 per rotor
Lead soldering	\$30 per joint
Silver soldering	\$65 per joint
Valve spring set replacement	\$45 parts incl
Dent removal	By estimate
Free frozen tuning slides	By estimate
Custom work	By estimate
Replating	By estimate
Relacquer	By estimate
CASE REPAIR	
Replace handle, latch or hinge	\$35 ea.

Ultrasonic Cleaning

Ultrasonic cleaning has been used in industrial and commercial application for over forty years. It's cleaning power is very well documented and in some cases is absolutely essential to the manufacturing of high precision assemblies. The power of ultrasonics lies not only in its ability to clean, but in it's ability to penetrate into areas inaccessible by any other method. Since the power of cavitation is able to go wherever the liquid goes, entire assemblies can be immersed in a bath and all surfaces, both external and internal, blind holes and crevices, will be cleaned simultaneously. This ensures proper cleaning of components. Although ultrasonics is an aggressive cleaning technique, it is non-abrasive and can produce extremely clean parts without harm to product surfaces. Through the use of ultrasonic cavitation, parts can be cleaned better, faster, and without damage, making it an extremely valuable method for cleaning musical instruments.

A TECHNICAL EXPLANATION OF ULTRASONICS

Ultrasonic cleaning is a result of sound waves introduced into a cleaning liquid by means of a series of "transducers" mounted to the cleaning tank. The sound travels throughout the tank and creates waves of compression and expansion in the liquid. In the compression wave, the molecules of the cleaning liquid are compressed together tightly. Conversely, in the expansion wave, the molecules are pulled apart rapidly. The expansion is so dramatic that the molecules are ripped apart, creating microscopic bubbles. The bubbles are not seen by the naked eye since they are so small and exist for only a split second of time. The bubbles contain a partial vacuum while they exist. As the pressure around the bubbles becomes greater, the fluid around the bubble rushes in, collapsing the bubble very rapidly. When this occurs, a jet of liquid is created that may travel at this very high rate. They rise in temperature to as high as 5000 degrees C, which is roughly the temperature of the surface of the sun. This extreme temperature, combined with the liquid jet's velocity provides a very intense cleaning action in a minute area. Because of the very short duration of the bubble expansion and collapse cycle, the liquid surrounding the bubble quickly absorbs the heat and the area cools quickly. As a result, the tank and liquid becomes only warm and does not heat up due to the introduction of parts during the cleaning process.

Orchestral Strings Repair Rates

All prices are subject to evaluation by technician additional charges may be required.

Violin/Viola

Violin/Viola		Labour	Part	Total
Restrung (Does Not Include Bridge Work)		\$ 30.00		\$ 30.00
Bridge	Standard	\$ 65.00	\$4.95	\$ 69.95
	Deluxe	\$ 99.00	\$9.75	\$ 108.75
	Rearch	\$ 30.00	\$0.00	\$ 30.00
Soundpost	New	\$ 30.00	\$4.95	\$ 34.95
	Adjust/set	\$ 15.00	\$0.00	\$ 15.00
Pegs	Redrill 4	\$ 30.00	\$0.00	\$ 30.00
	Refit each	\$ 20.00	\$0.00	\$ 20.00
	New each	\$ 20.00	\$2.95	\$ 22.95
(per peg)	Spiral Bushing	\$ 60.00	\$0.00	\$ 60.00
(per peg)	Full Bushing	\$ 90.00	\$0.00	\$ 90.00
Nut	Reshape	\$ 30.00	\$0.00	\$ 30.00
	New	\$ 30.00	\$2.00	\$ 32.00
Saddle	Reglue	\$ 30.00	\$0.00	\$ 30.00
	New	\$ 45.00	\$2.00	\$ 47.00
Seams	Reglue	By Estimate	\$0.00	By Est.
Fingerboard	Dress	\$ 75.00	\$0	\$ 75.00
(partial)	Reglue	\$ 25.00	\$0	\$ 25.00
(full)	Reglue	\$ 50.00	\$0	\$ 50.00
(new)	Replace & Dress	\$ 150.00	\$30.00	\$ 180.00
Neck	Reset	By Estimate	\$0.00	By Est.

Cello

Cello		Labour	Part	Total
Restrung (Does Not Include Bridge Work)		\$ 30.00		\$ 30.00
Bridge	Standard	\$ 99.00	\$28.95	\$ 127.95
	Deluxe	\$ 130.00	\$48.95	\$ 178.95
	Rearch	\$ 35.00	\$0.00	\$ 35.00
Soundpost	New	\$ 45.00	\$4.95	\$ 49.95
	Adjust/set	\$ 15.00	\$0.00	\$ 15.00
Pegs	Redrill 4	\$ 30.00	\$0.00	\$ 30.00
	Refit each	\$ 20.00	\$0.00	\$ 20.00
	New each	\$ 25.00	\$12.95	\$ 37.95
(per peg)	Spiral Bushing	\$ 70.00	\$0.00	\$ 70.00
(per peg)	Full Bushing	\$ 120.00	\$3.00	\$ 123.00
Nut	Reshape	\$ 32.50	\$0.00	\$ 32.50
	New	\$ 32.50	\$5.00	\$ 37.50
Saddle	Reglue	\$ 30.00	\$0.00	\$ 30.00
	New	\$ 45.00	\$6.00	\$ 51.00
Seams	Reglue	By Estimate	\$0.00	By Est.
Fingerboard	Dress	\$ 99.00	\$0.00	\$ 99.00
(partial)	Reglue	\$ 30.00	\$0.00	\$ 30.00
(full)	Reglue	\$ 60.00	\$0.00	\$ 60.00
(new)	Replace & Dress	\$ 190.00	\$170.00	\$ 360.00
Neck	Reset	By Estimate	\$0.00	By Est.

Bass

Bass		Labour	Part	Total
Restring (Does Not Include Bridge Work)		\$30.00		\$ 30.00
Bridge	Standard	\$149.50	\$75.00	\$ 224.50
	Deluxe	\$225.00	\$95.00	\$ 320.00
	Rearch	\$50.00	\$0.00	\$ 50.00
Install Bridge Adjusters		\$99.00	\$29.95	\$ 128.95
Soundpost	New	\$ 60.00	\$6.95	\$ 66.95
	Adjust/set	\$ 30.00	\$0.00	\$ 30.00
Tyrolean Heads	Repair / Adjustment	By Estimate	By Est.	By Est.
Nut	Reshape	\$ 45.00	\$0.00	\$ 45.00
	New	\$ 45.00	\$10.00	\$ 55.00
Saddle	Reglue	\$ 65.00	\$0.00	\$ 65.00
	New	\$ 65.00	\$10.00	\$ 75.00
Seams	Reglue	By Estimate	\$0.00	By Est.
Fingerboard	Dress	\$ 199.00	\$0.00	\$ 199.00
(partial)	Reglue	\$ 50.00	\$0.00	\$ 50.00
(full)	Reglue	\$ 100.00	\$0.00	\$ 100.00
(new)	Replace & Dress	\$ 345.00	\$350.00	\$ 695.00
Neck	Reset	By Estimate	\$0.00	By Est.

Bow

Bow		Labour	Part	Total
Violin Repair	Standard	\$ 55.00	\$ 7.50	\$ 62.50
Grips	Short Leather	\$ 15.00	\$ 2.00	\$ 17.00
	2Piece Leather	\$ 30.00	\$ 3.00	\$ 33.00
	Plastic & Leather	\$ 30.00	\$ 3.00	\$ 33.00
	Silver & Leather	\$ 45.00	\$ 10.00	\$ 55.00
Tip Face	Plastic	\$ 40.00	\$ 2.00	\$ 42.00
	Bone	\$ 130.00	\$ 5.00	\$ 135.00
Viola Repair	Standard	\$ 55.00	\$ 7.50	\$ 62.50
Grips	See Violin	\$ -	\$ -	\$ -
Tip Face	Plastic	\$ 40.00	\$ 2.00	\$ 42.00
	Bone	\$ 130.00	\$ 5.00	\$ 135.00
Cello Repair	Standard	\$ 55.00	\$ 7.50	\$ 62.50
Grips	Short Leather	\$ 15.00	\$ 3.00	\$ 18.00
	2Piece Leather	\$ 30.00	\$ 4.00	\$ 34.00
	Plastic & Leather	\$ 32.00	\$ 4.00	\$ 36.00
	Silver & Leather	\$ 45.00	\$ 12.50	\$ 57.50
Tip Face	Plastic	\$ 45.00	\$ 3.00	\$ 48.00
	Bone	\$ 130.00	\$ 6.00	\$ 136.00
Bass Repair	Standard	\$ 60.00	\$ 12.50	\$ 72.50
Grips	See Cello	\$ -	\$ -	\$ -
Tip Face	Plastic	\$ 55.00	\$ 4.00	\$ 59.00
	Bone	\$ 130.00	\$ 10.00	\$ 140.00