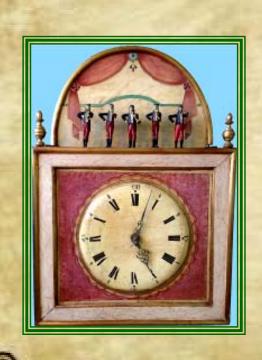
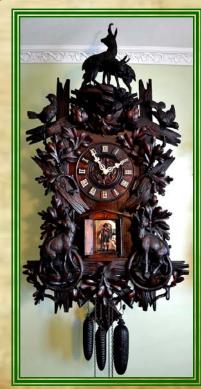
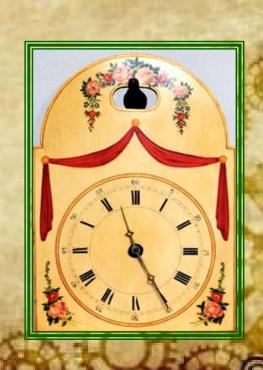
Welcome to the World of Alusical

Wath Forest Clocks









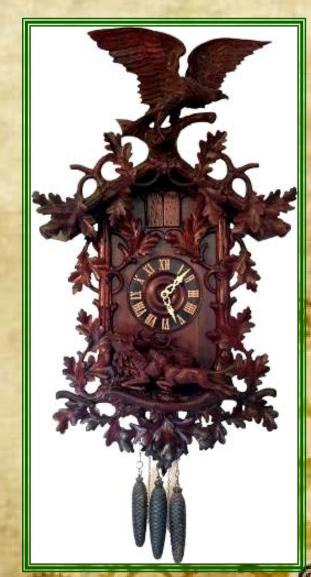
The History of Black Forest Clocks

- Black Forest clock production started in the mid 17th century as part of an in-house cottage industry for farmers to supplement their income during the long cold winters.
- The first series of clocks were for practical use and in simple design. Popularity of clocks from Black Forest grew and plates and dial face became more sophisticated.



The History of Black Forest Clocks

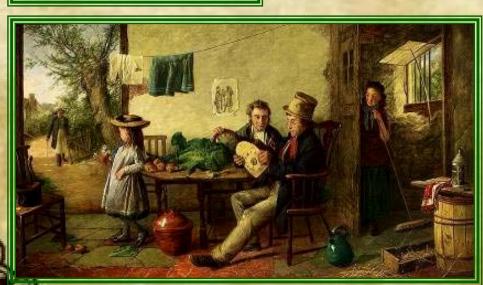
- Black Forest clocks gained popularity especially the famous cuckoo clocks, which were developed in their typical style in 1854.
- For a long time, the cuckoo clock was attributed to Franz Anton Ketterer, a clockmaker of some repute from the Black Forest village of Schönwald.
- It was believed that Ketterer created the cuckoo in the 1730s, inspired by the bellows of church organs to adapt the technology in lieu of the chimes then typically used in clocks.



1700's Black Forest Shield Clock



Early shield clocks had both wooden gears and were rope driven movements. As manufacturing production techniques progressed these would become all brass in the second half of the 18th century.



Rope Drive



Jacob Bäuerle Trumpeter Clock

- Jakob Bäuerle of Furtwangen Germany had filed the first patent that combined a mechanism that produces a trumpeters call with a clock, it is estimated that he produced the first clock of this type in the year 1857.
- As shown in the photo, the very early movements were constructed of wood and had several bellows to provide the air pressure to the reeds for the trumpeter sound.
- This example has three horns to sound the notes which is supported by three bellows that provide the air to the reeds.



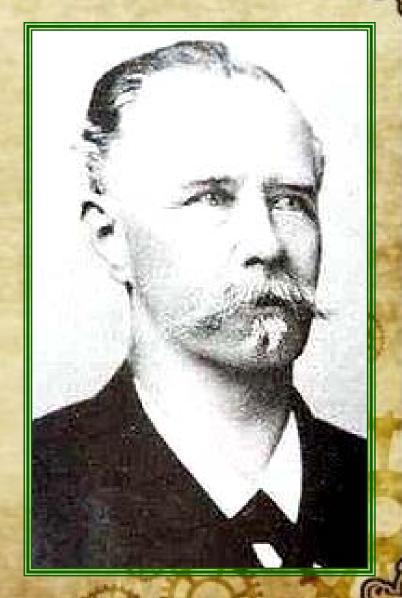






Emilian Wehrle

- Emilian Wehrle (1832 1896, born in Schönenbach (Furtwangen), was a reputed Black Forest clockmaker famous for his high-quality musical clocks.
- These musical clocks included the trumpeter clock, flute clock, singing bird clock, and rooster clock. These timepieces call the hour with the sound of a trumpeter, flute, bird and rooster respectively.
- Emilian Wehrle never produced clocks in high numbers compared to other Black Forest makers. Instead he developed a niche selling his expensive musical clocks to people who could afford them.
- Today these clocks are very rare and command very high prices.
- He was also a maker of cuckoo clocks, but these were not the primary focus of the firm.



Wehrle "Four Horn" Trumpeter Clock

- This early example was manufactured in the year of 1866 by the Emilian Wehrle factory.
- As shown in this 1866 Wehrle catalog of the clock.





Wehrle "Four Horn" Trumpeter Clock

- Very early 1800's four horn trumpeter clock grape leaf motif with a figure of a hunter with trumpet horn.
- This particular clock plays extremely well for a four horn.
- The tune represents a hunters call during a fox hunt.

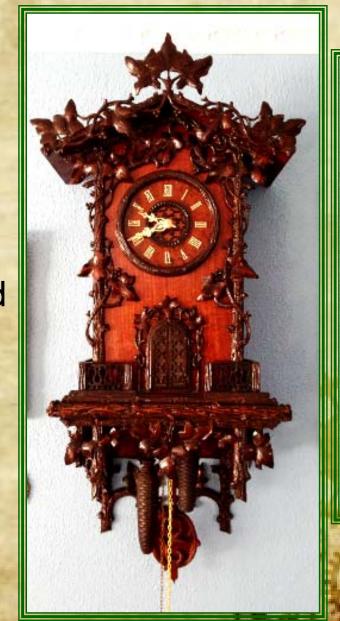
Four Horn Trumpeter
Clock Wehrle
(presentaion-video).mp4





Wehrle "Five Horn" Trumpeter Clock

- This clock is a very fine example of an early five horn trumpeter clock with a wood plate movement Circa 1857. This is one of the earliest clocks produced by the Wehrle factory.
- Although this is a very early production clock, the tune it produces is quite complicated.







Bellow pressure springs

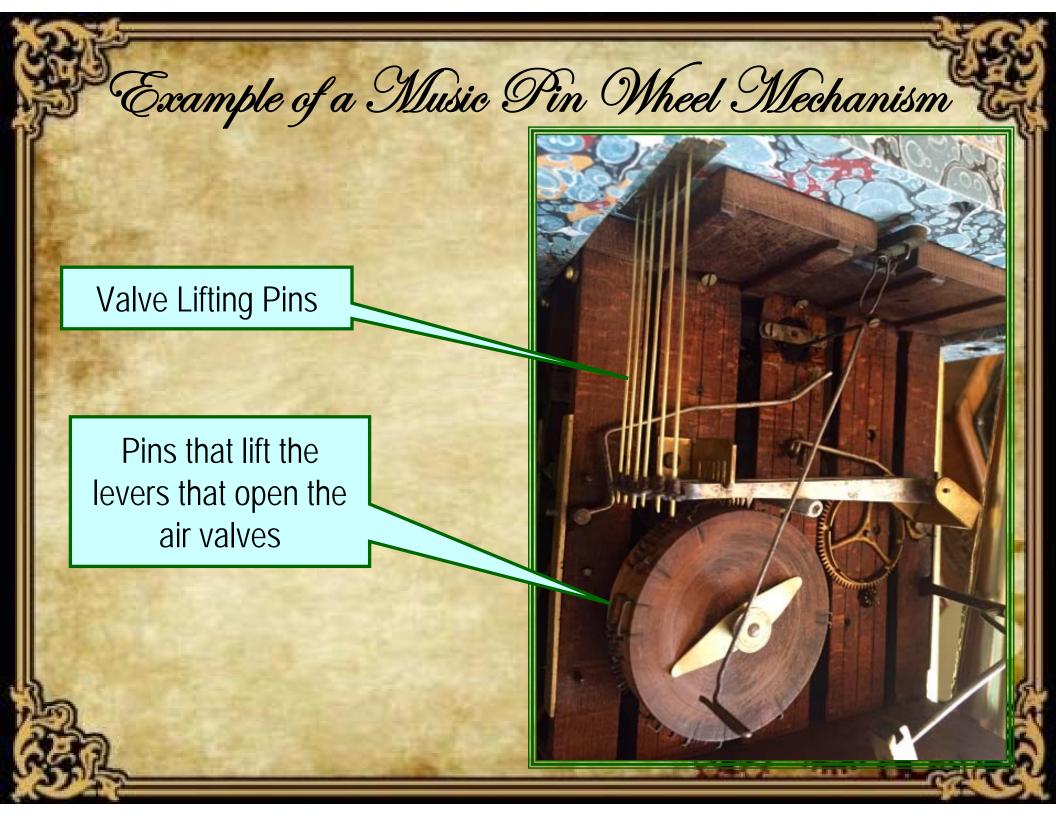
Twin Bellows

Valve Lifting Levers and Pins

Bellows lifting levers

Pinned Music Wheel







Five horn trumpeter wood plate movement in action.

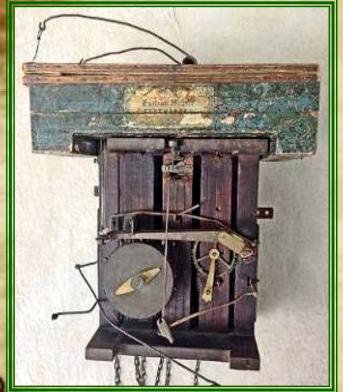
5 horn Wehrle Trumpeter
Clock Movement
(presentation-video).mp4



1867 Wehrle "Six Horn" Trumpeter Clock

Original Wood Plate Movement unrestored

Restored Movement











Early paper used in sealing the wind-chest actually assisted in dating this five horn clock manufacturing date at 1867

Air inlet valves





Trumpeter clock reeds

* Note this particular reed has a weight affixed to it which provides a lower pitch note.

Air valves





Air passageways from reeds to horns. Note: that the same configuration is used on flute clocks.



Mounting holes for trumpeter horns

Wehrle "Seven Horn" Trumpeter Clock

- This particular seven horn trumpeter clock was a special factory order. It has an extra large case with two quite large pheasants.
- It plays the William Tell overture which premiered in 1829. The tune is quite commonly found on trumpeter clocks.



Trumpeter Clock
Wehrle Pheasant
Motif(presentationvideo).mp4



Wehrle "Nine Horn" Trumpeter Clock

- This is an example of a shelf style trumpeter clock that plays nine notes.
- ❖ The motif by Wehlre standards is very plain compared to the more elaborate carved clocks that depict hunting scenes.





Wehrle "Eight Pipe" Flute Clock

- Wehrle eventually gave customers the option of flute music rather than the standard trumpeter sound.
- The flute music is a more pleasing sound. At the time they were sold at a premium price due to the extra work to produce the wooden flute pipes
- Due to the high cost of the Wehrle clocks they were only purchased by the very wealthy. As compared to other Black Forest clocks.
- Today they command a very high price as the flute clock version is even rarer and very few examples exist today.

Wehrle Flute Clock(presentation-video).mp4

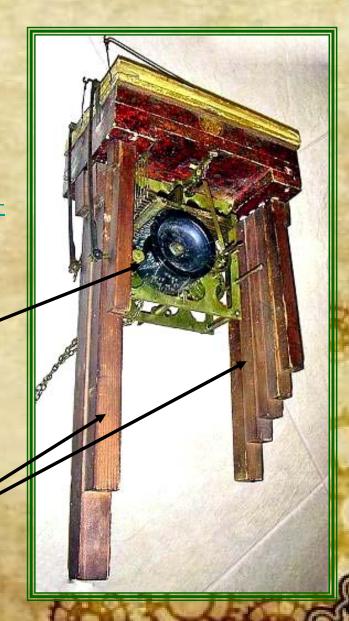


Wehrle "Eight Pipe" Flute Clock

- Eight pipe musical flute clock in its original unrestored condition.
- The flute mechanism plays "two" distinct tunes by shifting the pinned music wheel via a knob on the front chapter ring.
- Note: the size of the music wheel and the amount of pins, which is an indication of the complication of the tune and the ability to play two tunes.

Wehrle Flute
Clock Wind
Chest
Rebuild
(presentationvideo).mp4

Wooden Flute pipes



Wehrle "Eight Pipe" Flute Clock

- This eight pipe flute clock is in the typicle hunter motif as found on many Black Forest clocks
- This particular example also plays two tunes on eight wooden flute pipes



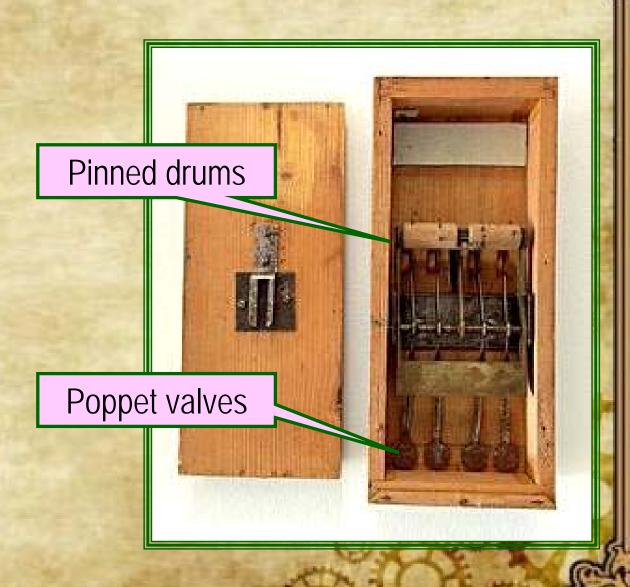
Wehrle Clock
Eight Pipe Flute
Hunter Motif
(presentationvideo).mp4







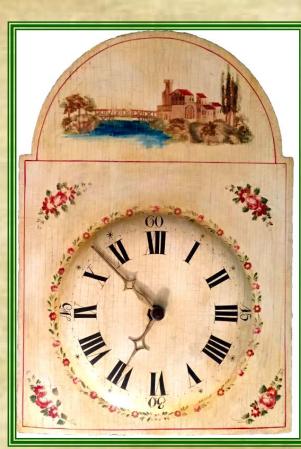
- The Lamy Trumpeter clock uses a large wind chest that holds four musical reeds that are fired off by a series of poppet valves.
- ❖ The valves are opened by a pinned music drum located inside the sealed air chest.





Flute Clock "Flötenuhr"

- This clock plays six tunes on fifteen wooden pipes.
- The painting on the shield depicts a castle on the Rhine River
- The shield is 18" tall making it one of the smallest flute clocks.



Black Forest Shield Flute
Clock (presentationvideo).mp4





In this view it shows the flute movement with the shield removed.

*You can also see in this photo the fifteen wooden pipes that provide the notes for the six tunes.

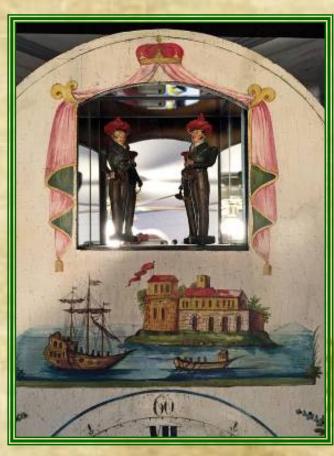
Black Forest
Shield Flute
Clock Part Two
(presentationvideo).mp4

Note: The clock movement shares the same wood frame as the music section.



Organ clock with "Hutoma"

- Original example of a organ or flute clock with 23 pipes and automation.
- The clocks motif is of a Spanish galleon off the coast of a island with a castle.
- The two figures of the period play six different tunes to welcome the sailors back ashore.



Black Forest Organ Clock
Circa 1800%27s with 23 pipes
(presentation-video-).mp4



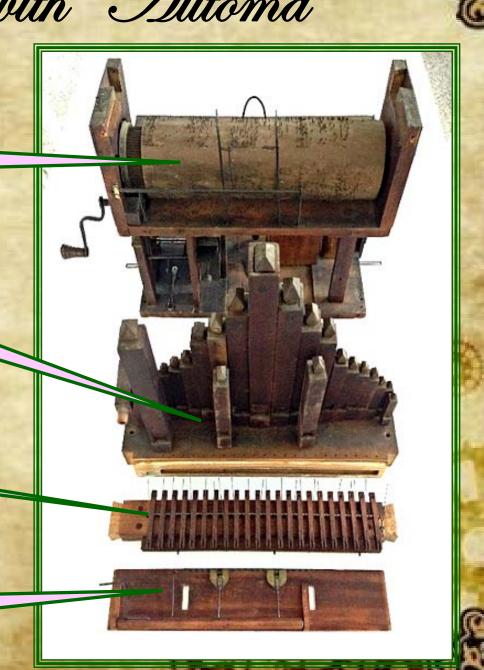


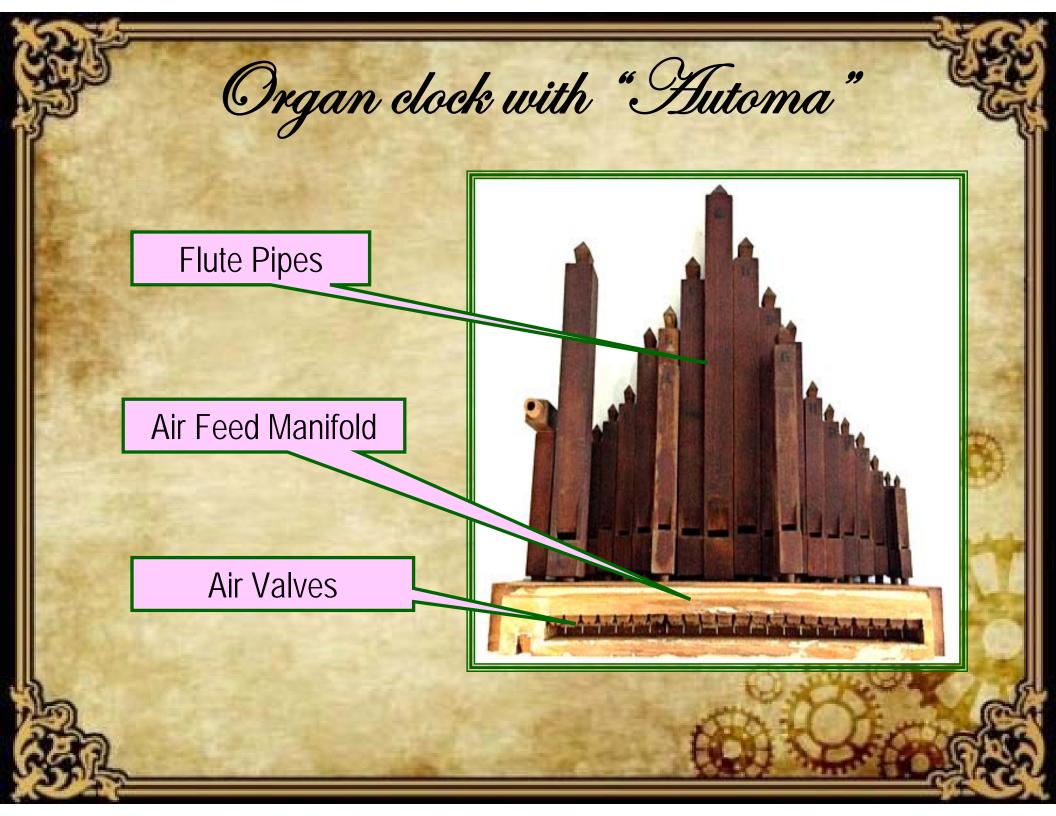
Pinned Music Wheel Six Tunes

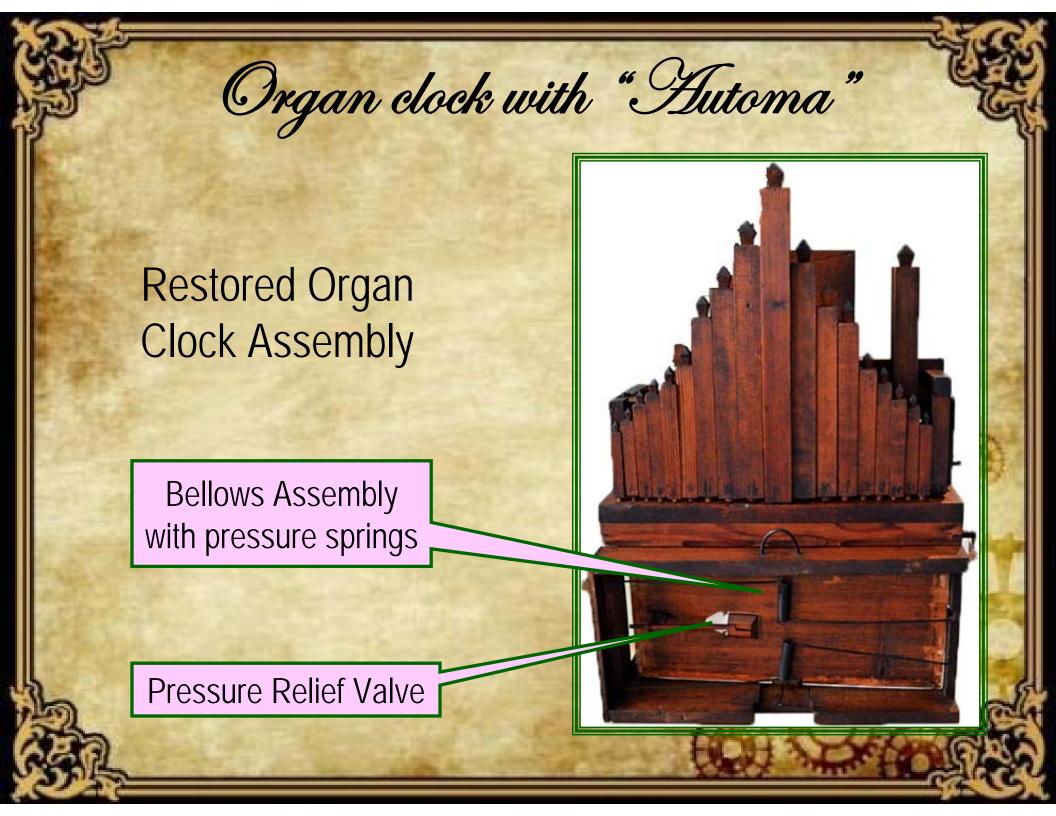
Flute Pipe and Manifold Assembly

Air Valves Lifters

Automated Figures Mechanism





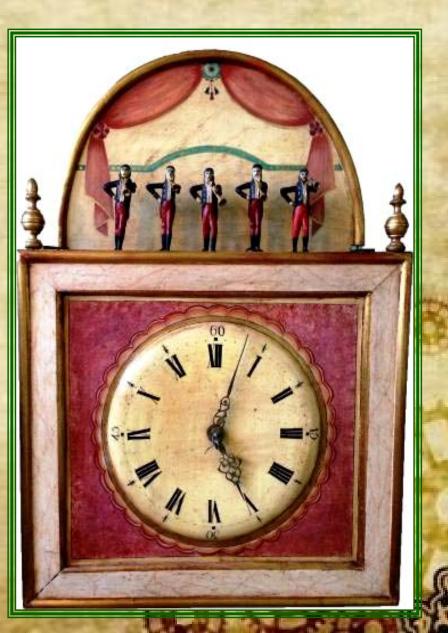


Organ clock with "Automa"

Automa linkage that moves the figures arms up to simulate the playing of the instruments.







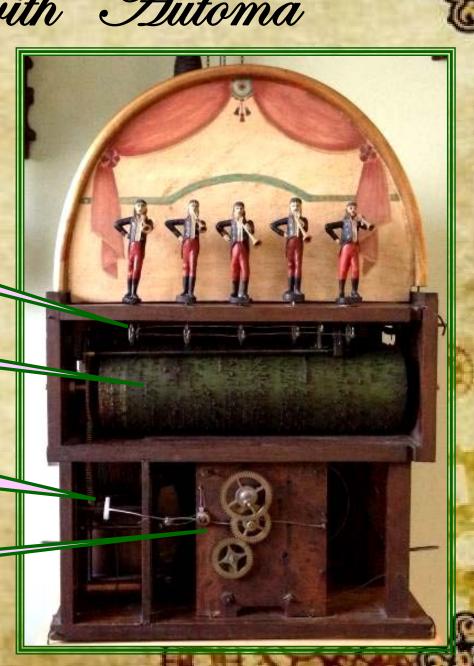


Automa Linkage

Pinned music drum

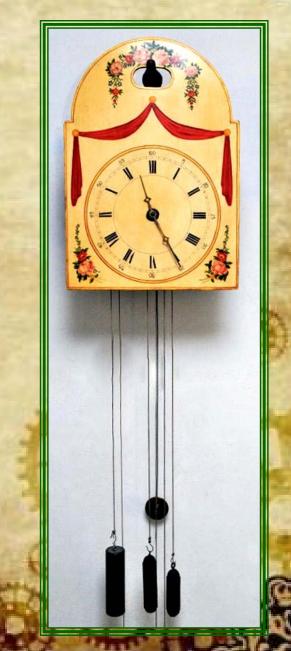
Strike hammer that sets off music section of clock

Standalone clock movement



Backbird Flute Clock "Flötenuhr"

- ❖ Blackbird clocks are amongst the rarest of the black forest clocks. Very few examples were manufactured and still exist today.
- The shield is 22" tall and 16"wide and the movement is completely rope driven.
- This automa is quite unique as the blackbird moves back and forth, and the mouth opens and closes to simulate singing the tune.



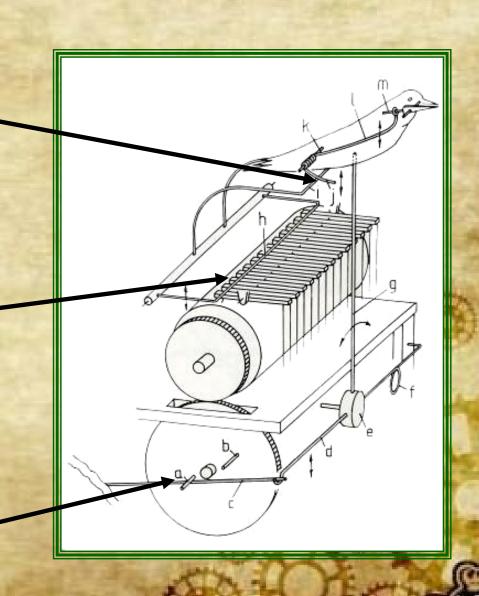


Backbird Flute Clock "Flötenuhr"

Lifting lever which actuates the birds beak

Rod runs along the top of the valve lifting levers so that the birds mouth opens and closes in perfect sequence of the tune that is playing

This mechanism rocks the bird back and forth as it sings the tune





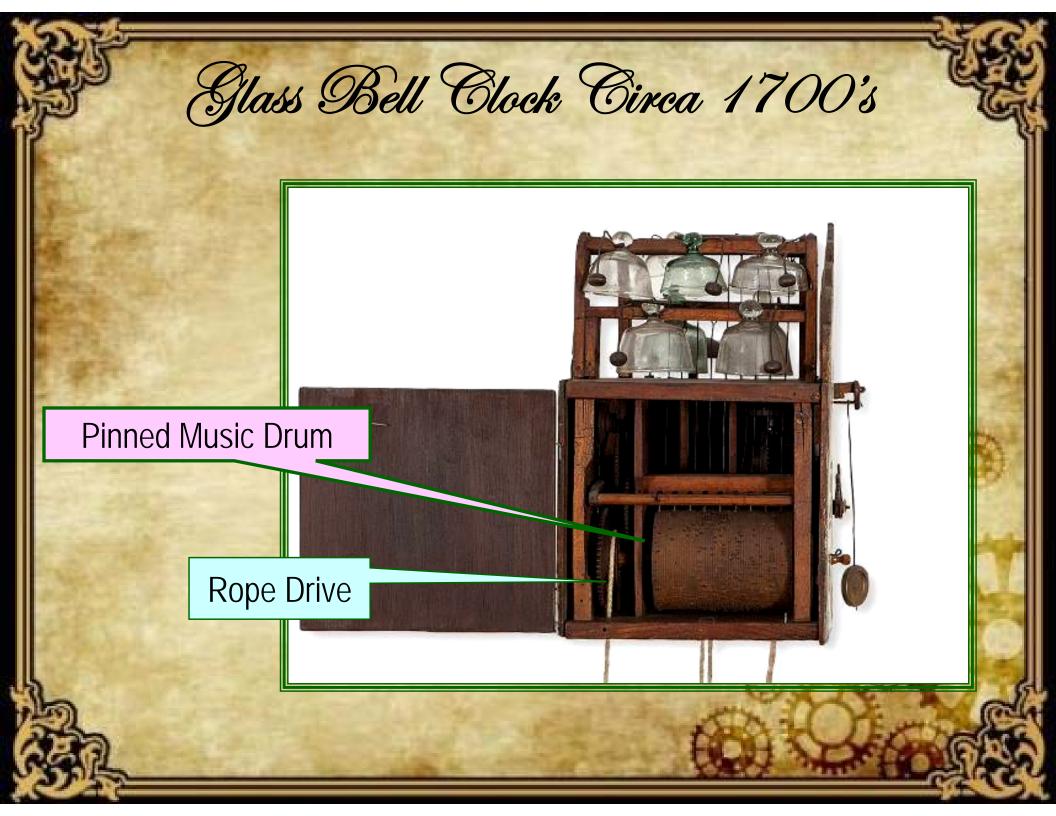
Glass Bell Clock Circa 1700's

Amongst the earliest of Black Forest clocks glass bell clocks are extremely rare due to their construction of all wooden gears and hand blown glass bells

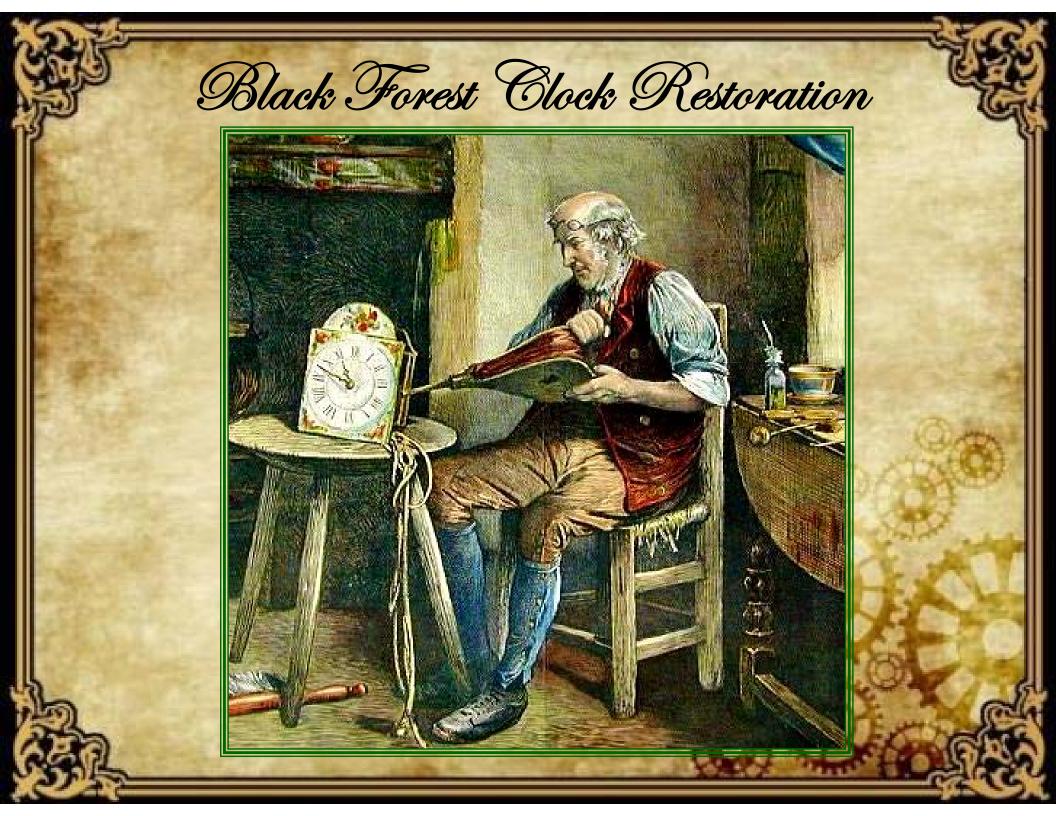




Note: The cowtail pendulum







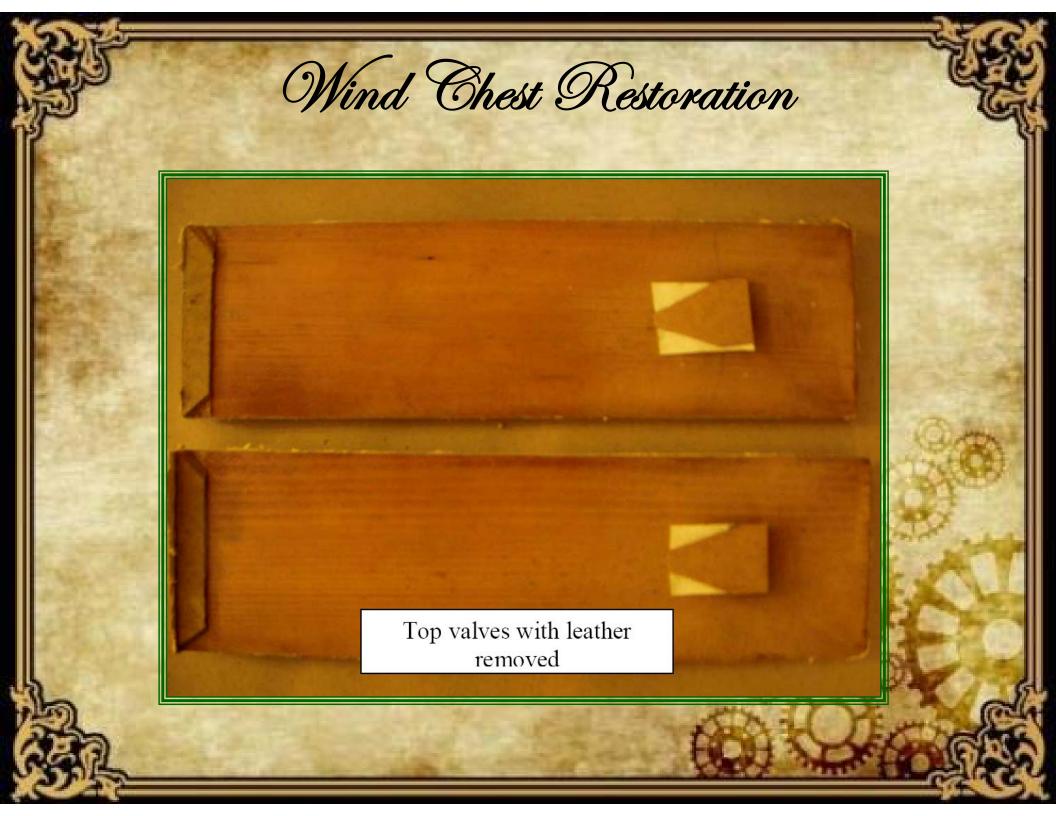


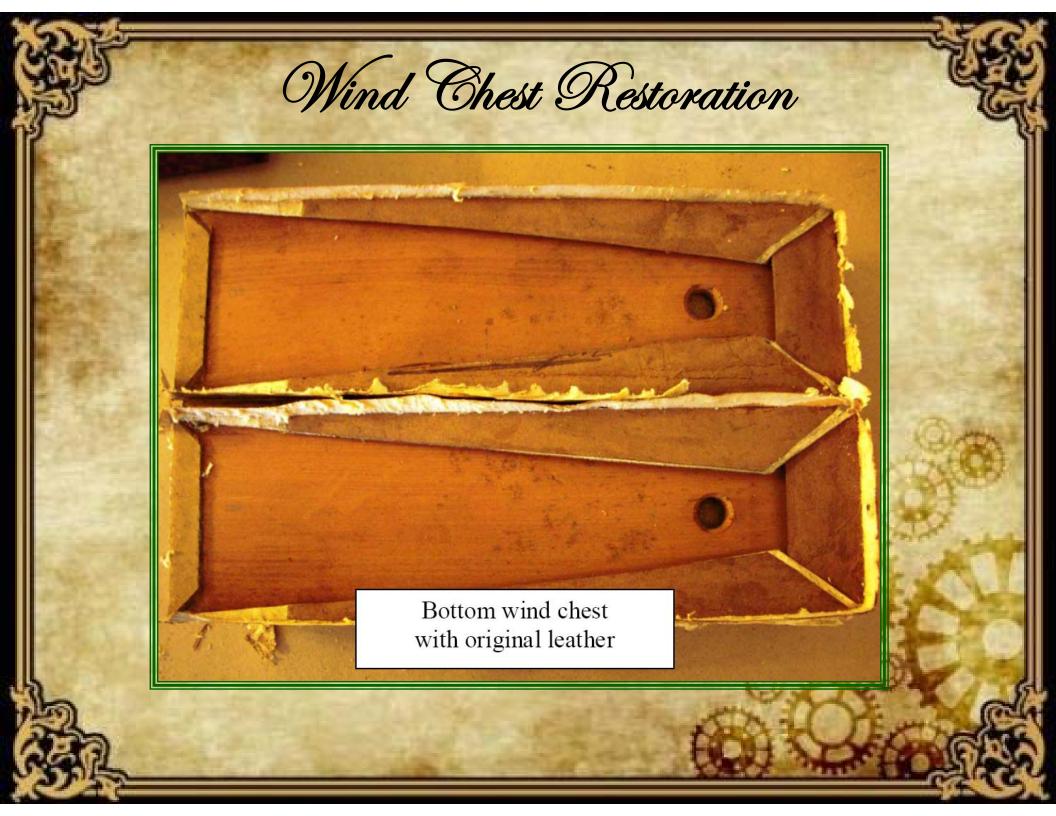




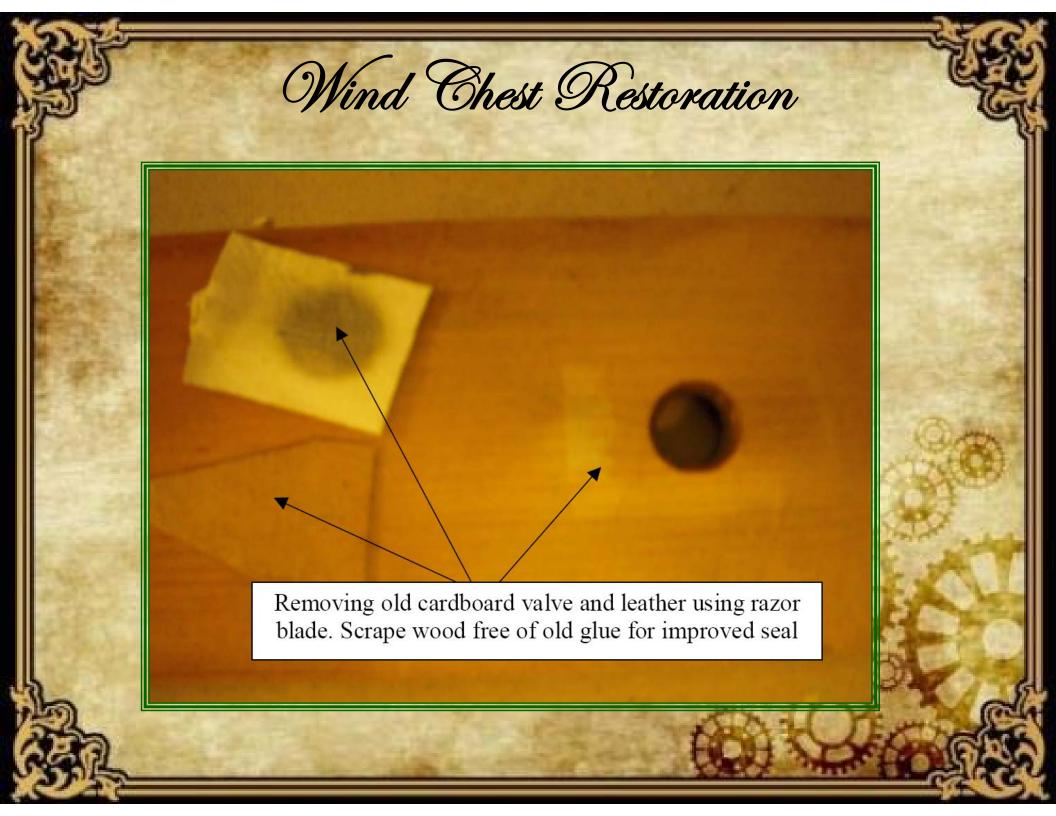


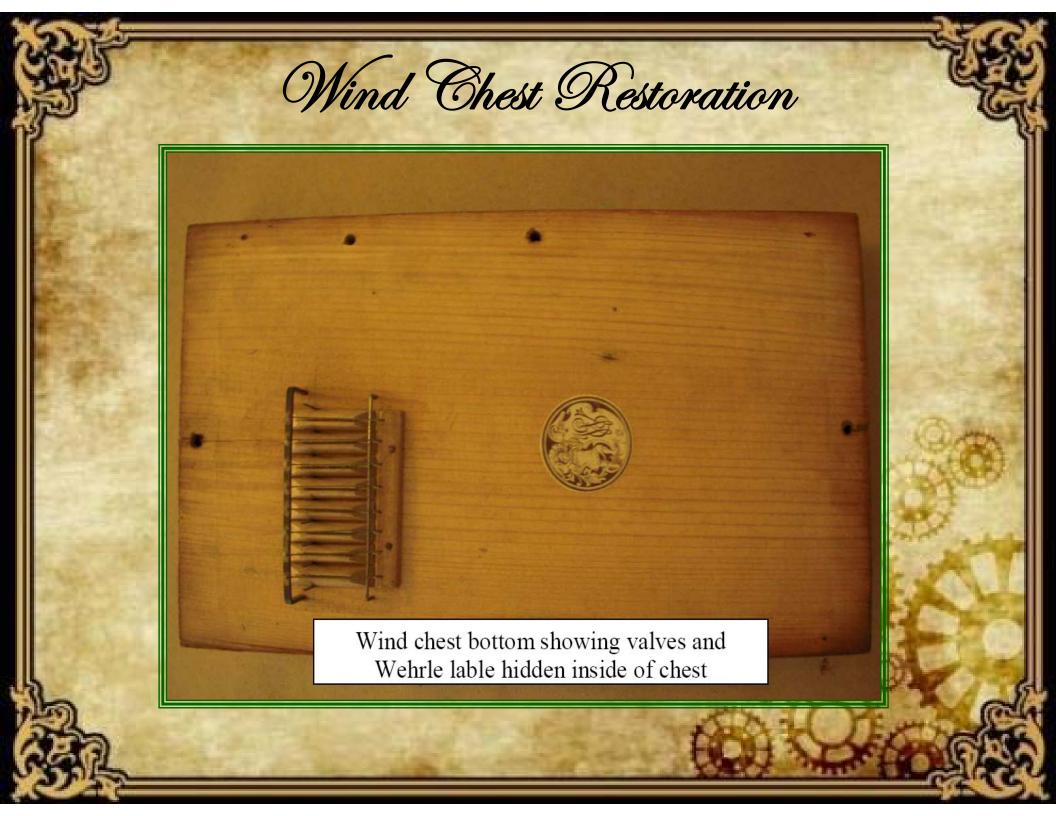




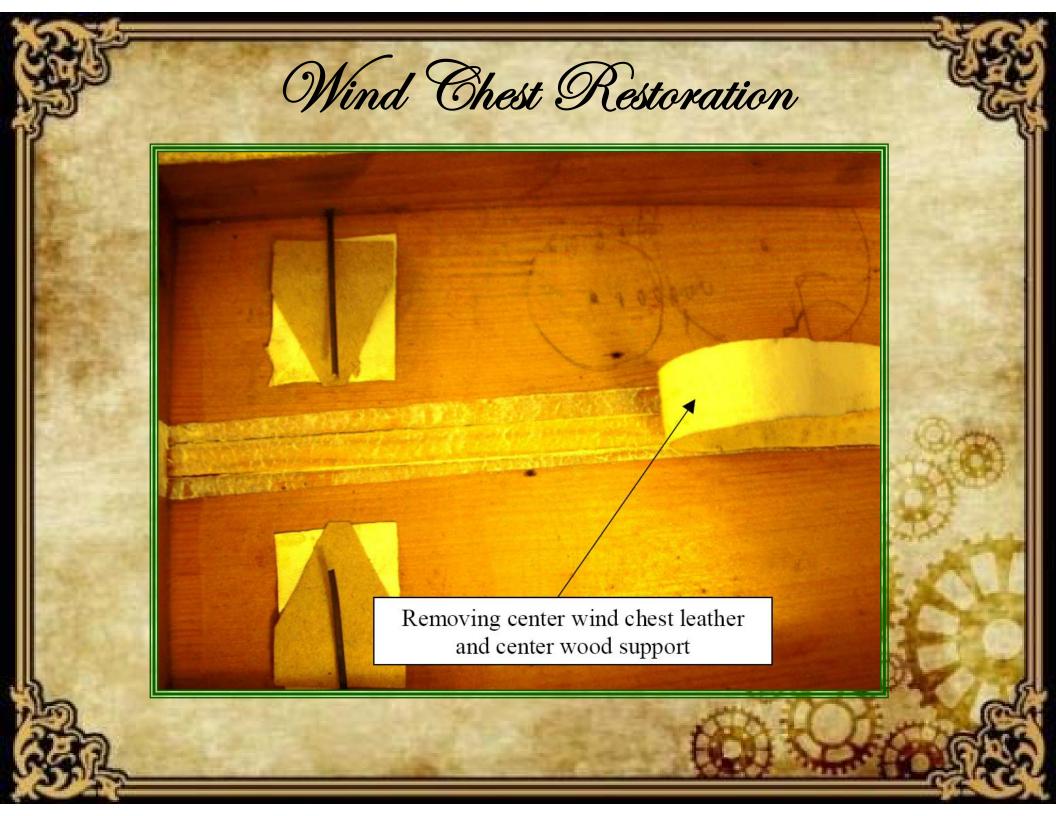


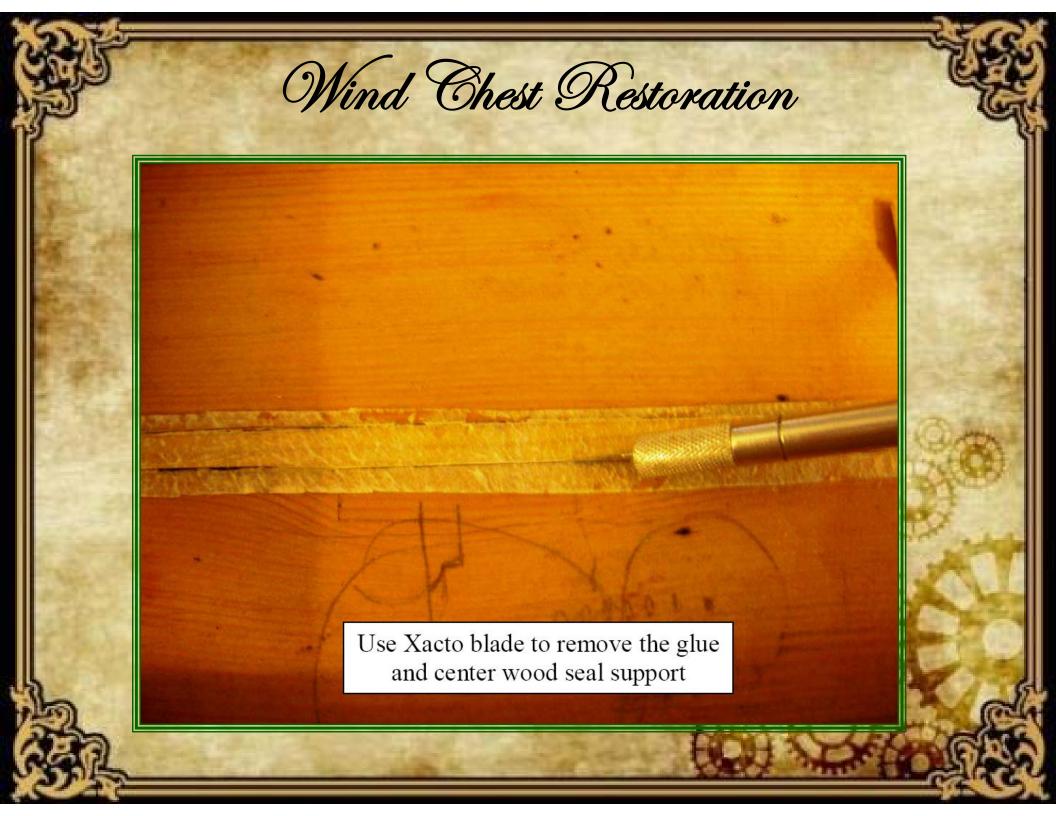




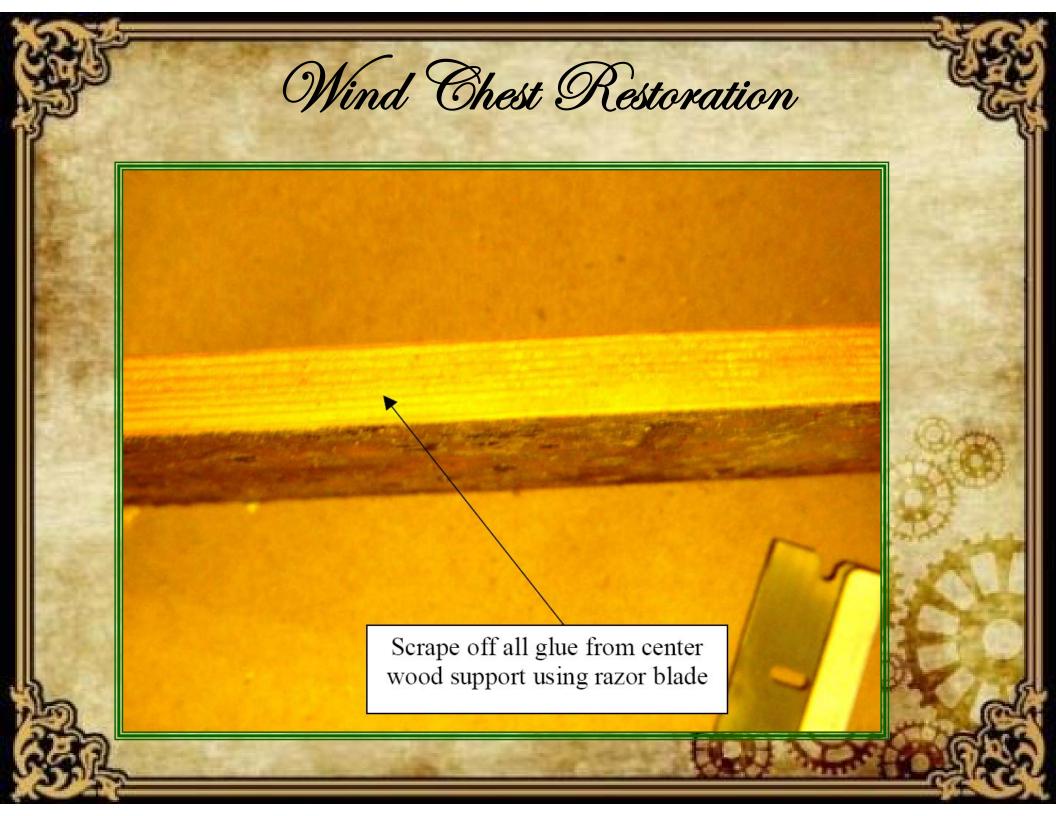


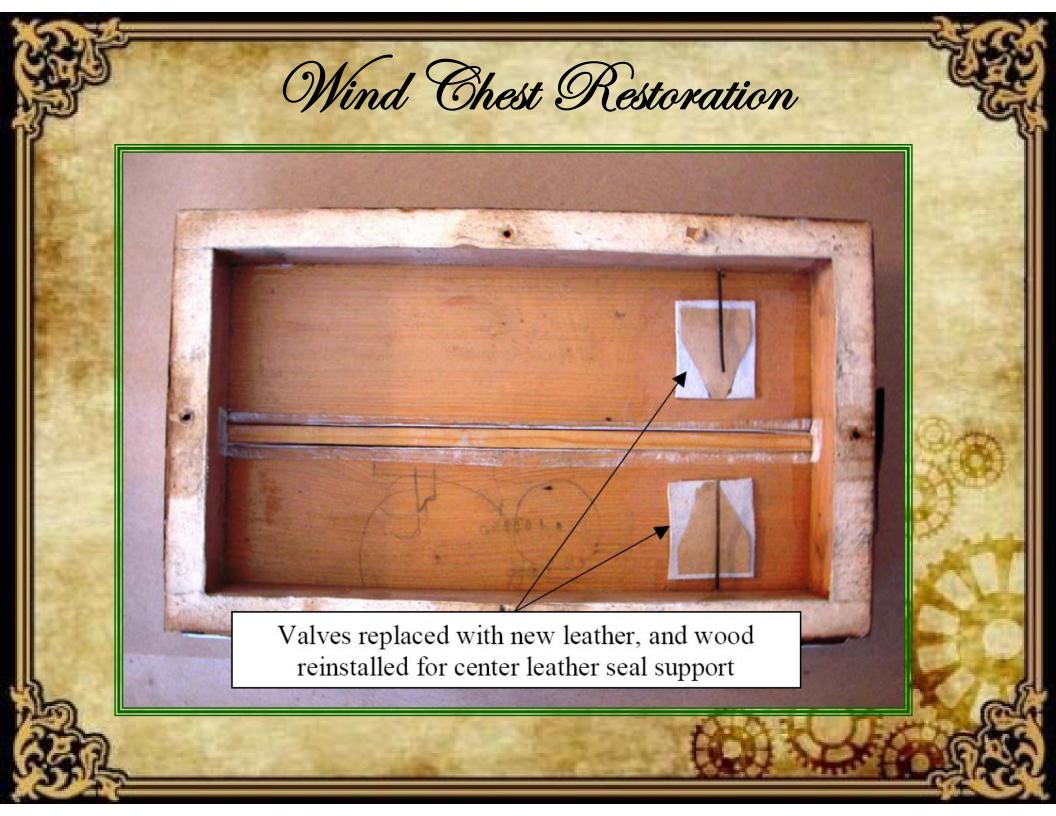


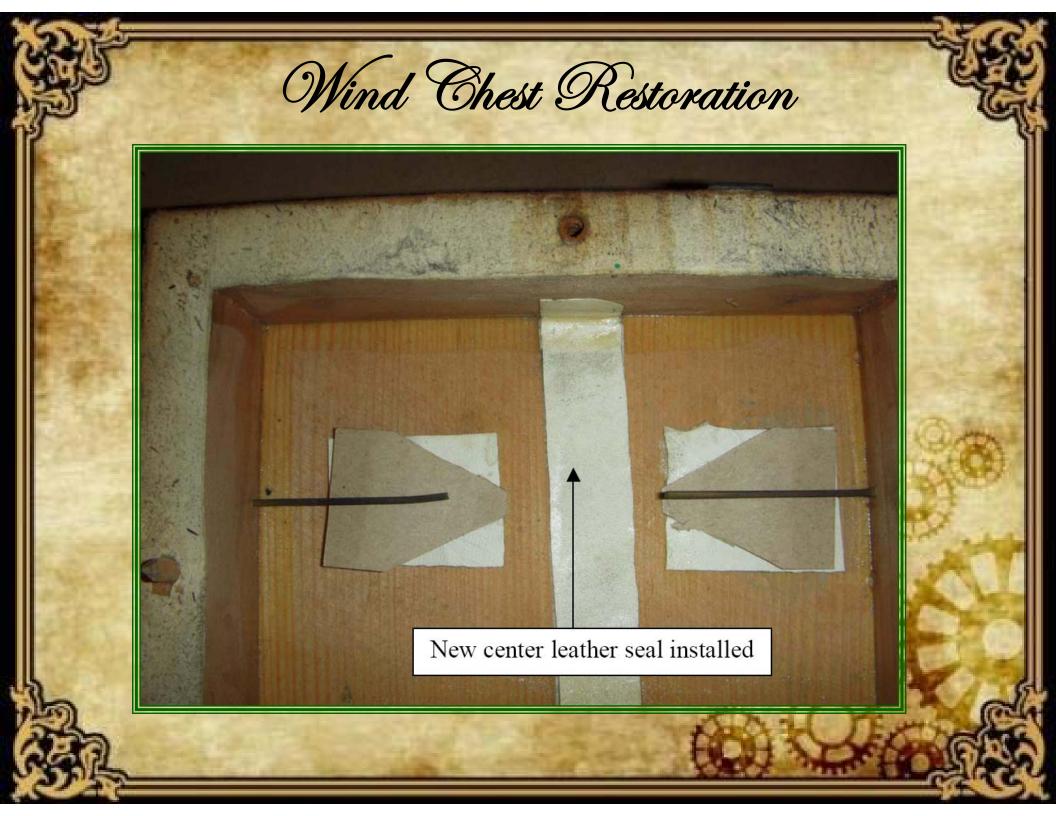


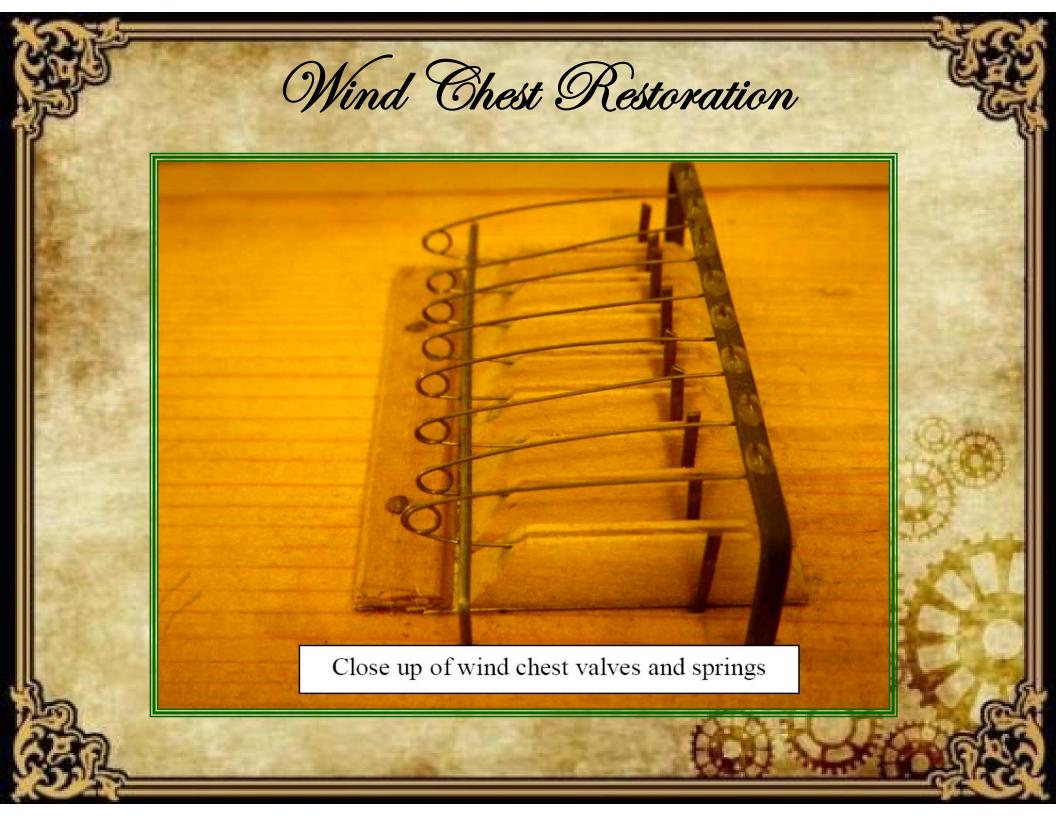






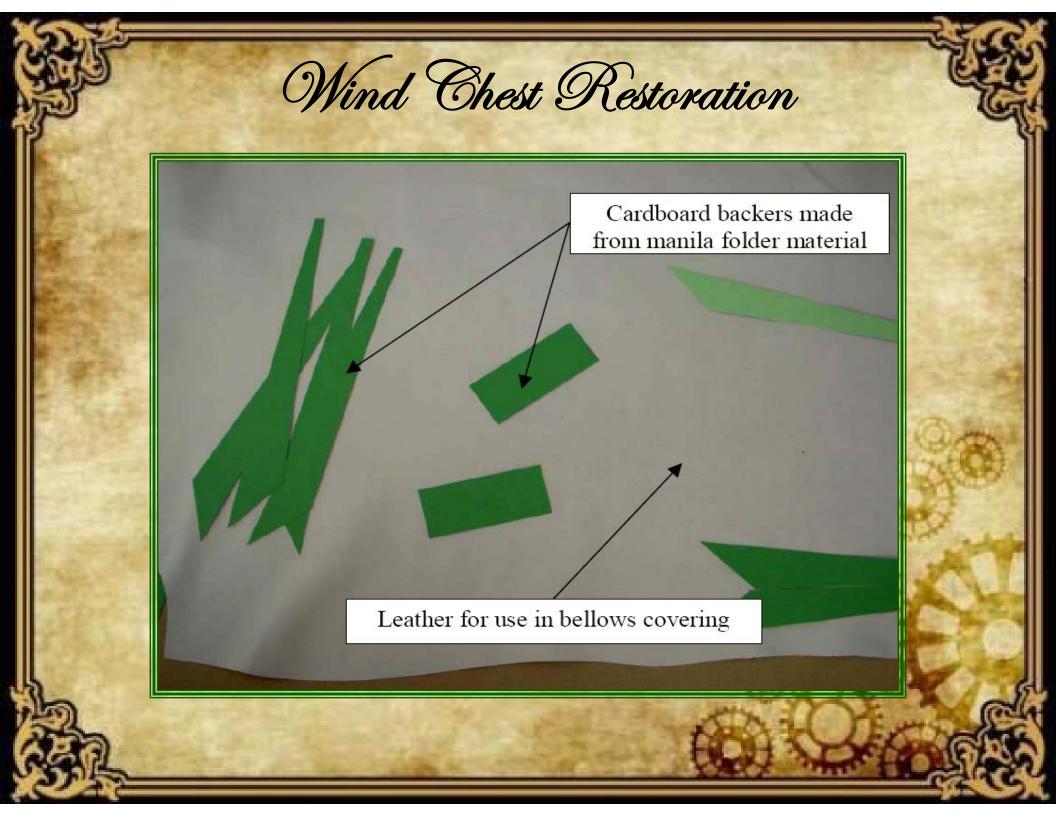


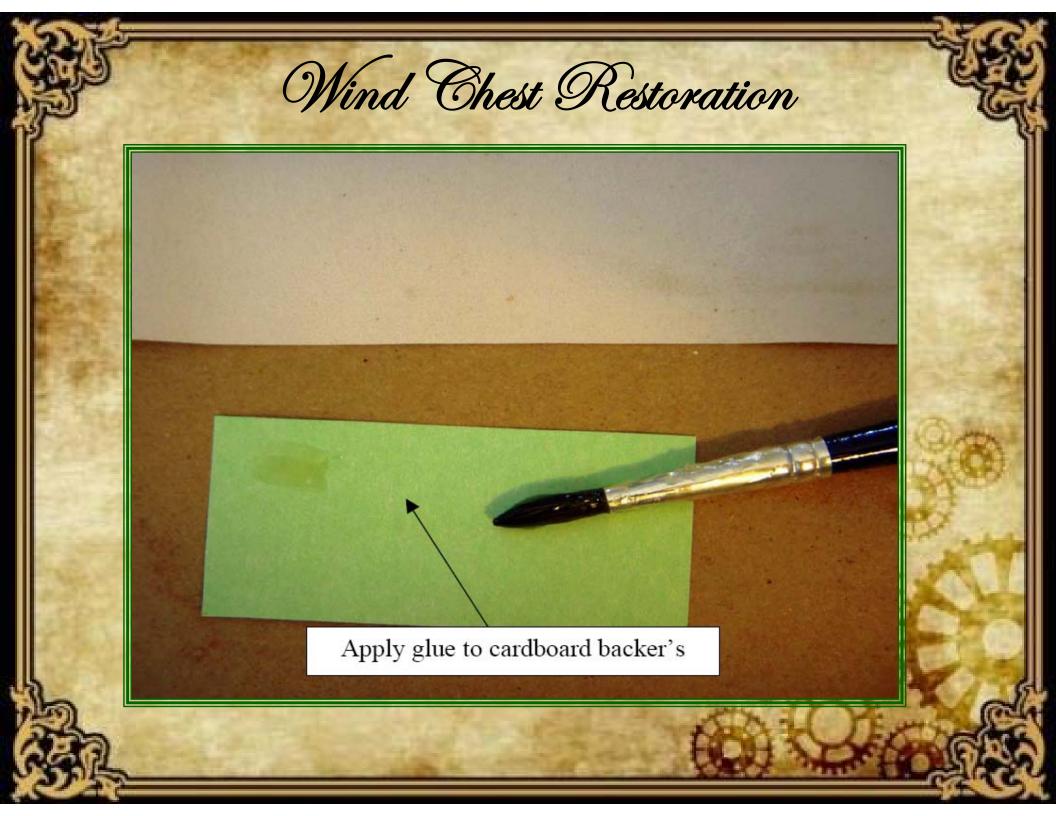


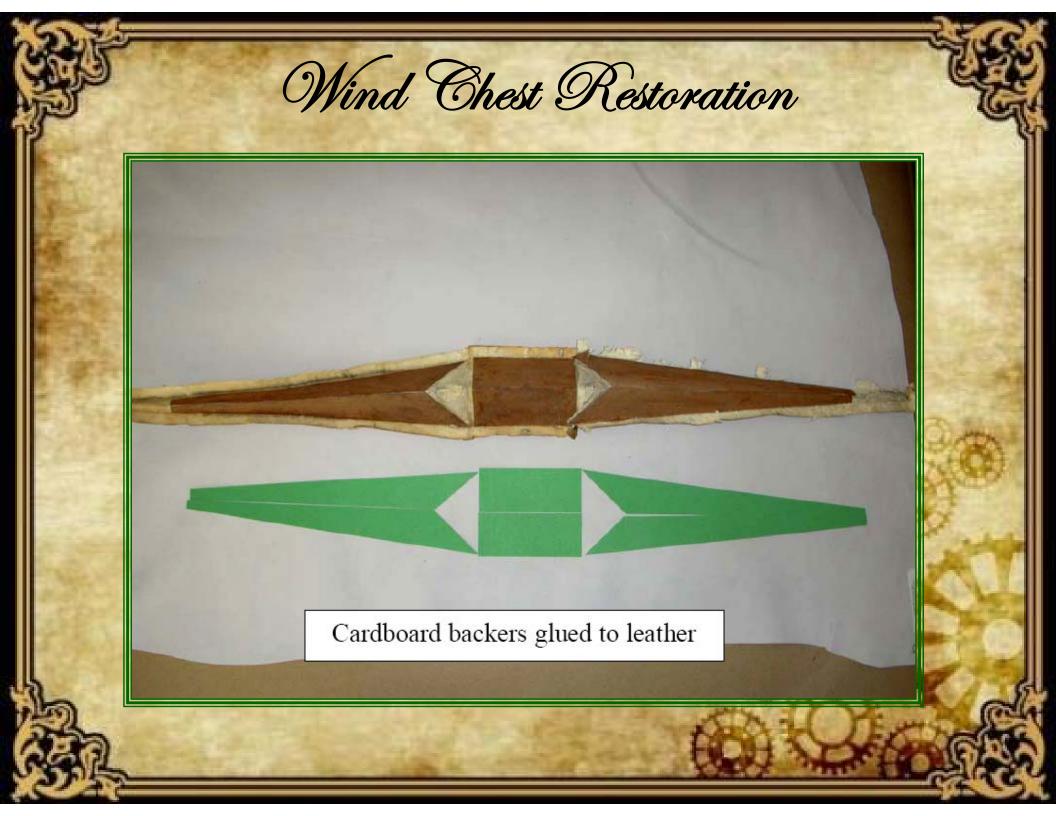


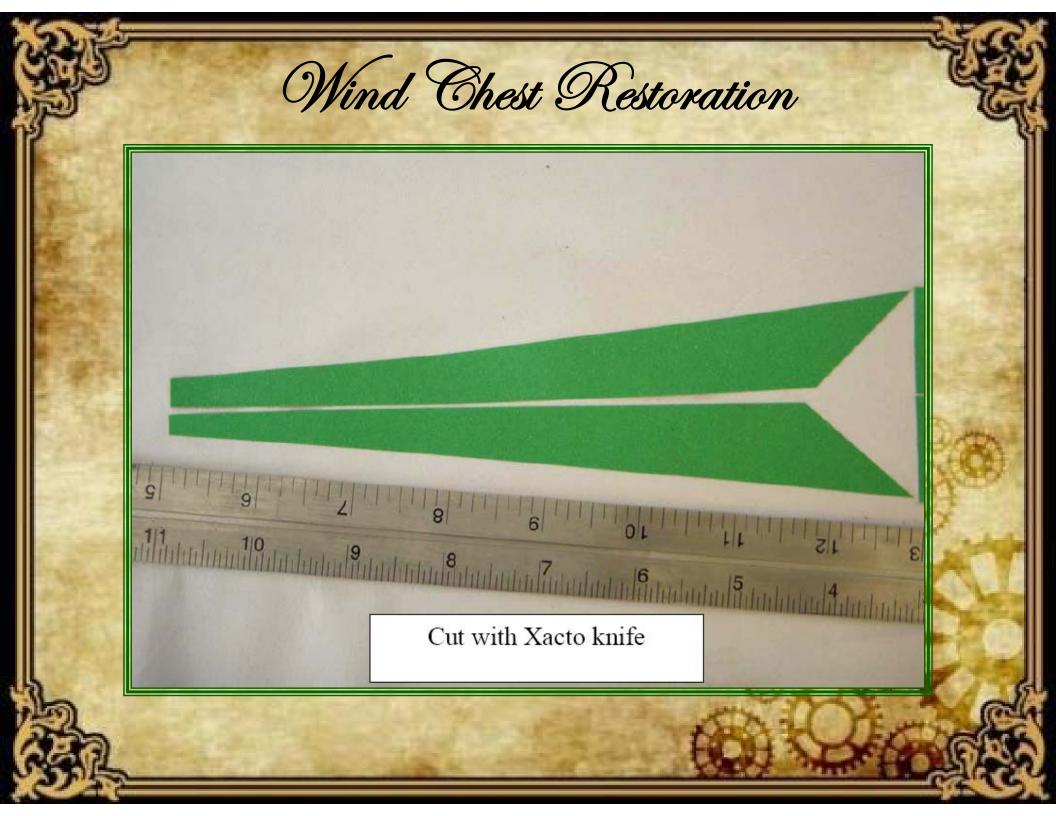


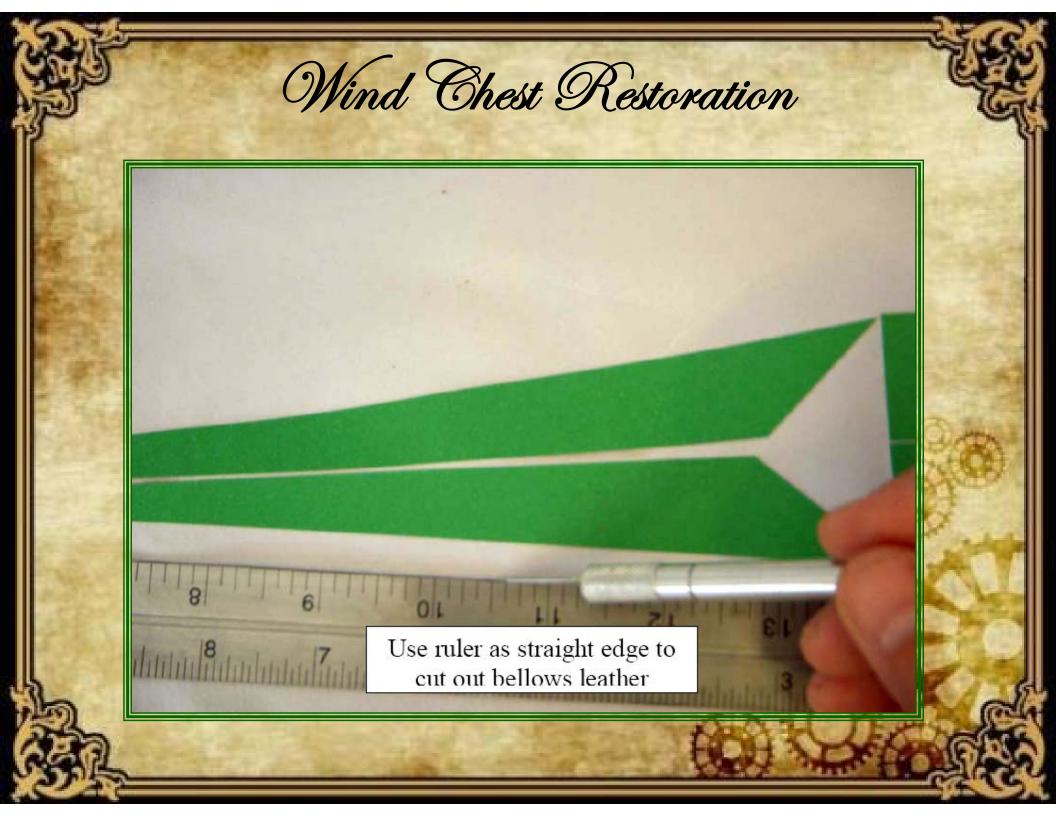






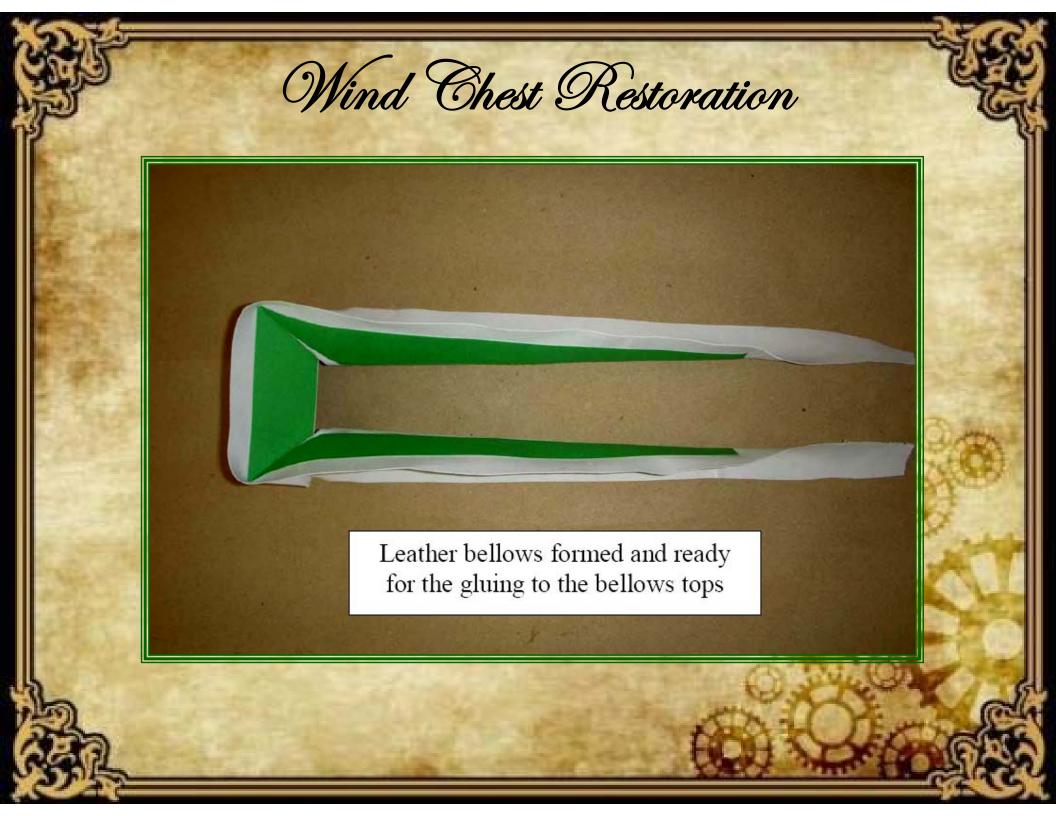






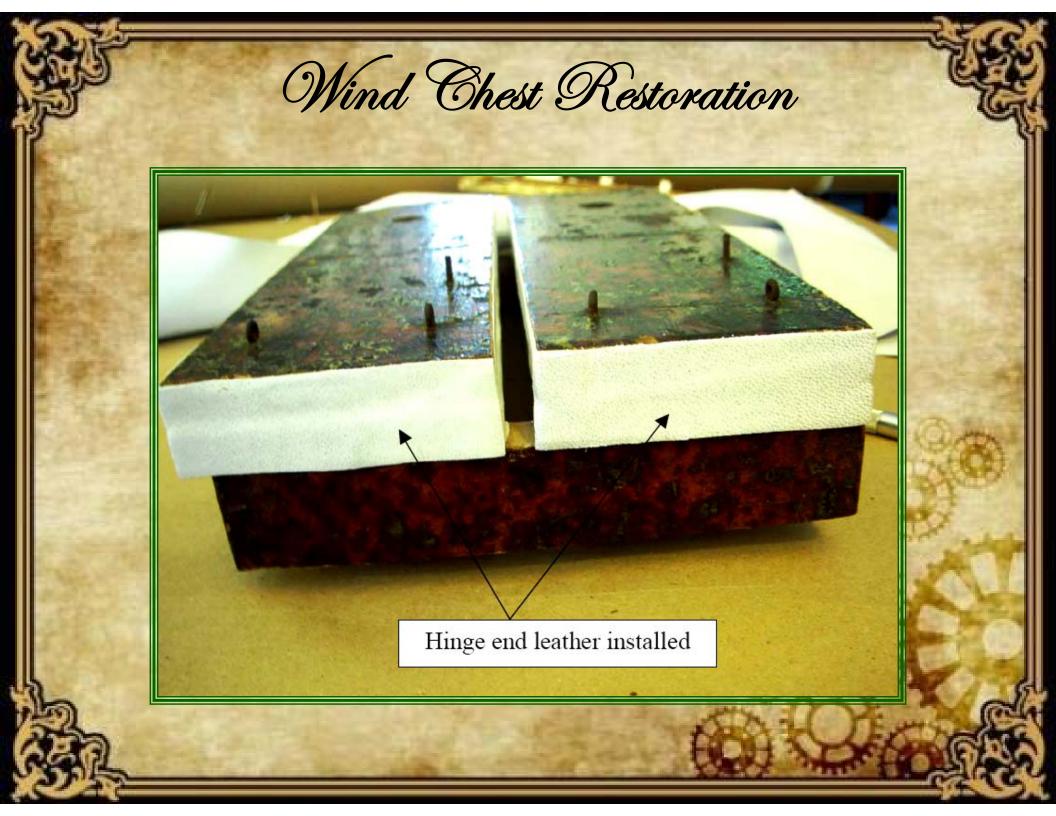










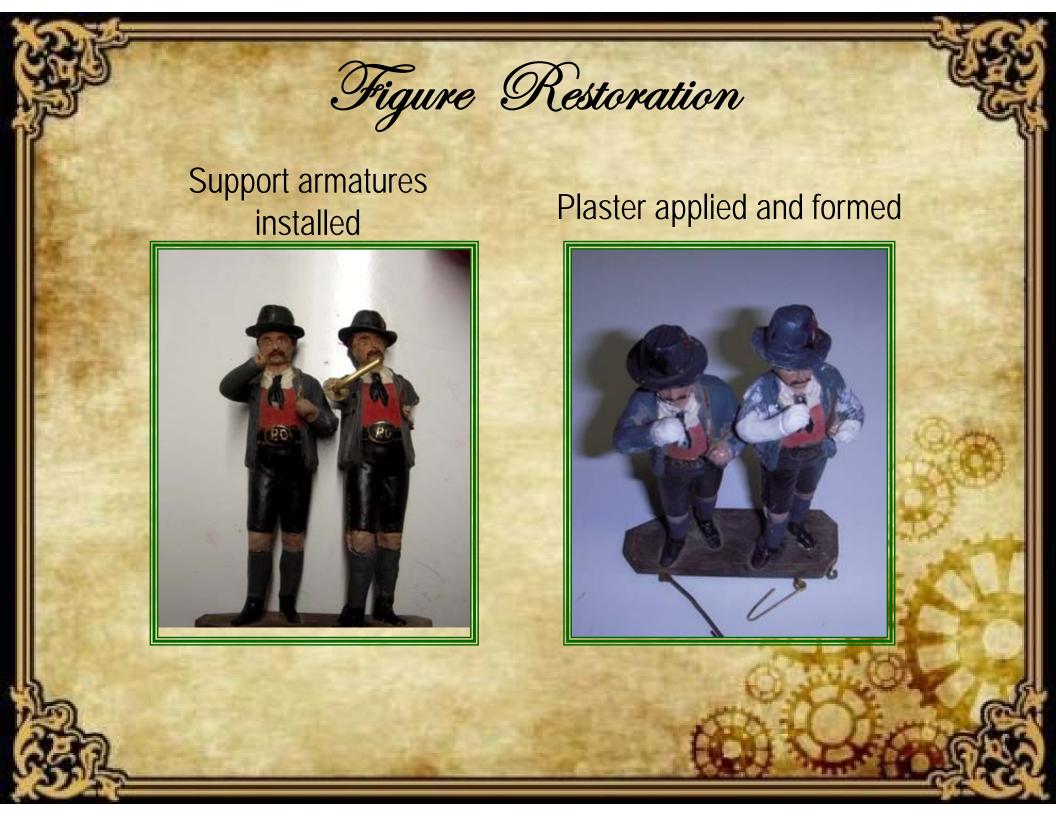


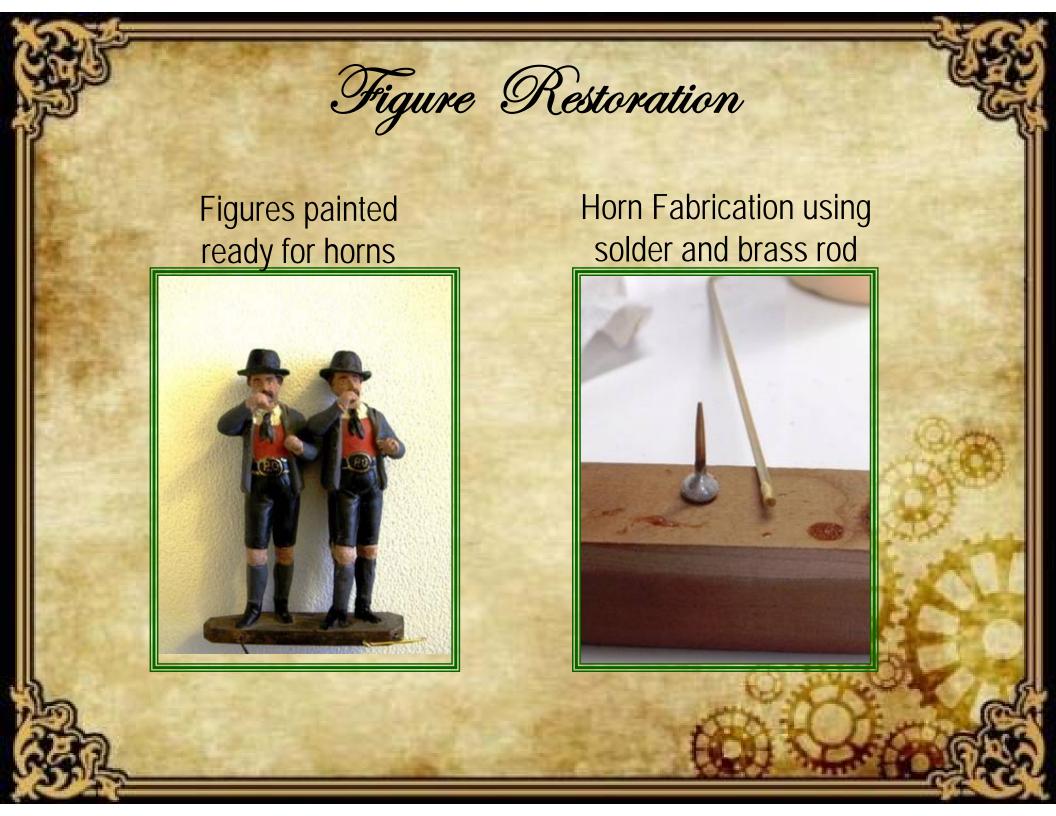






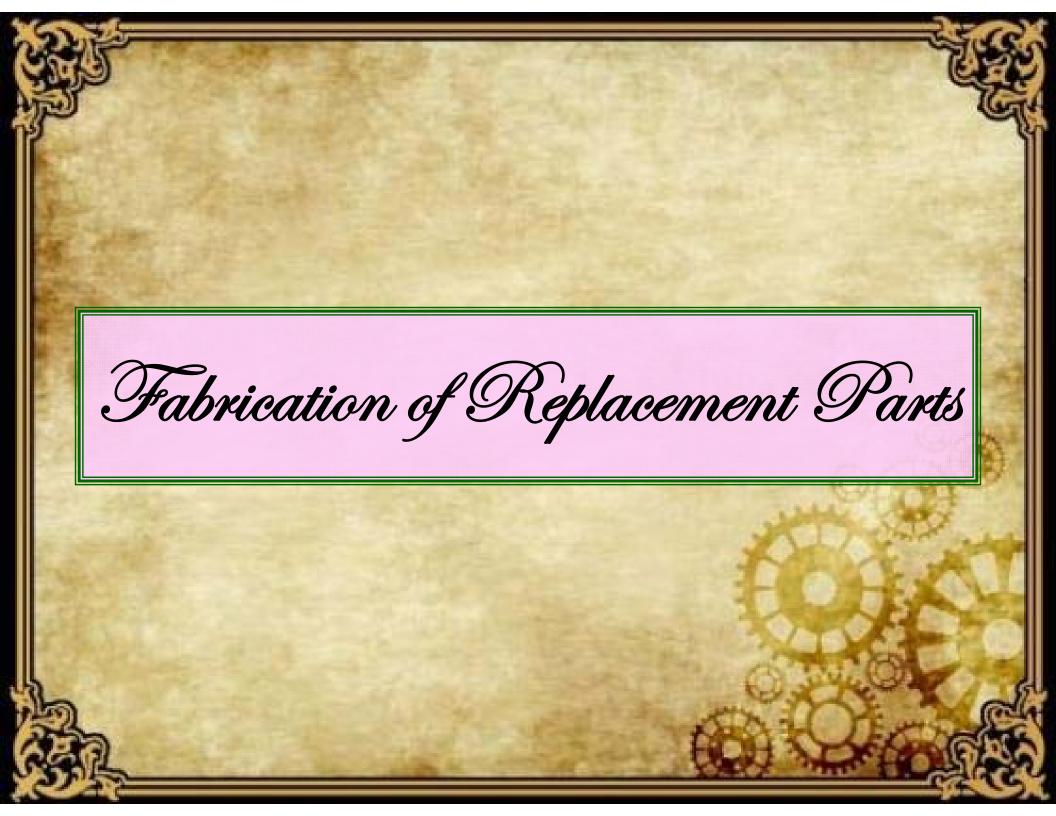


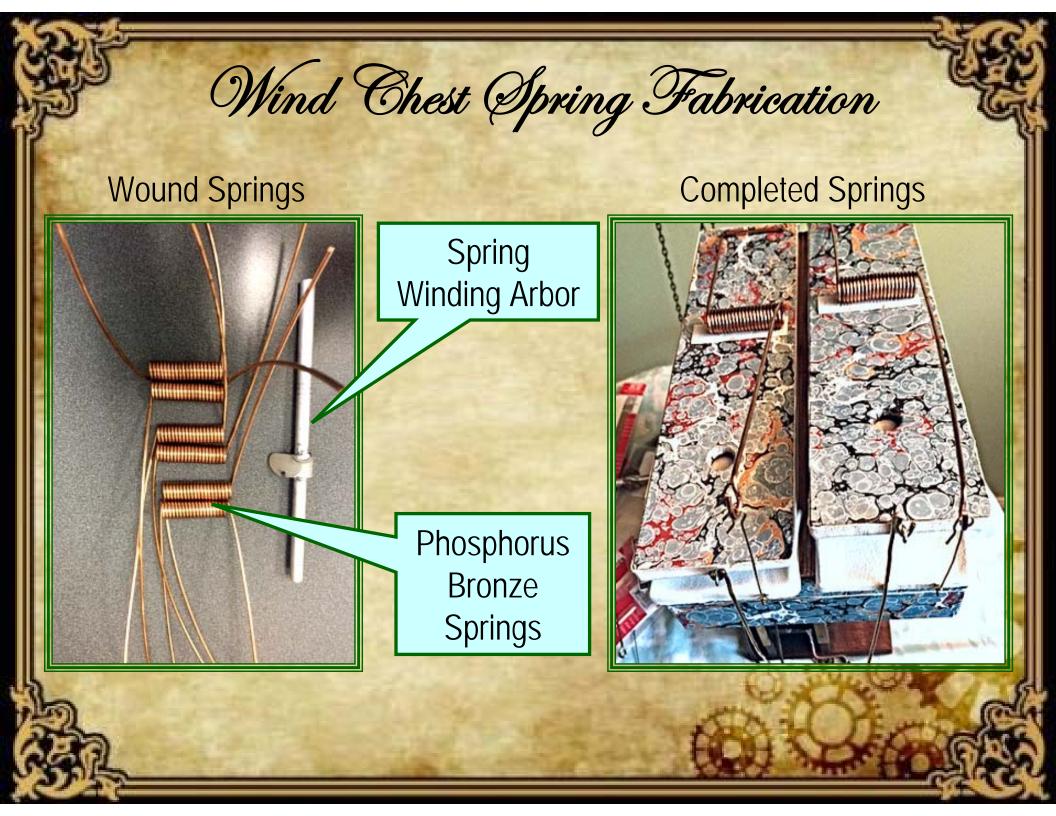


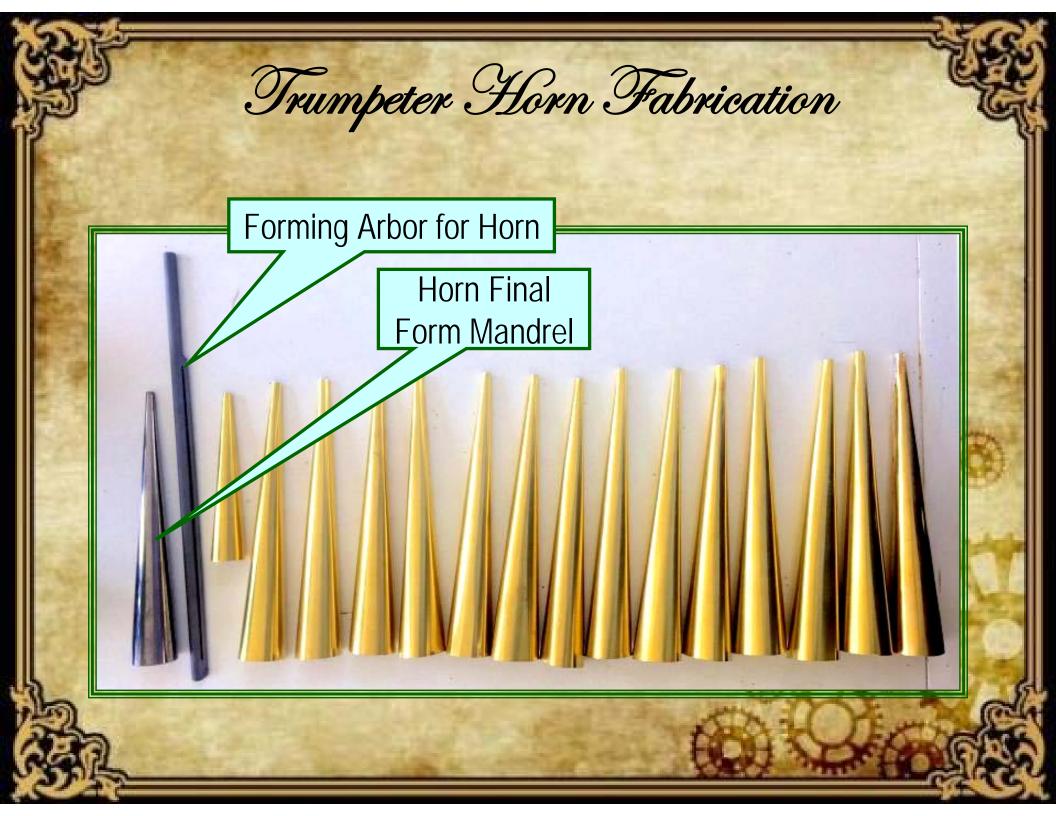














Black Forest Clock Dial Faces













Dial Face Restoration

