Andreas Eastman VL230 4/4 Violin: Technical Description

The VL230 violin by Andreas Eastman is a wooden, full-size, string instrument. When played, the violin resonates the sound of the strings to produce a clear, loud sound. The violin fits under the player's chin. It produces sound when the player drags a wooden rod (with horsehair stretched across) it along the strings. The shape, balance, and shoulder rest make the player comfortable while performing. The player can also adjust the tuning of each string. The VL230 consists of a scroll, neck, and body.

Figure 1 shows the complete violin with the major components indicated:

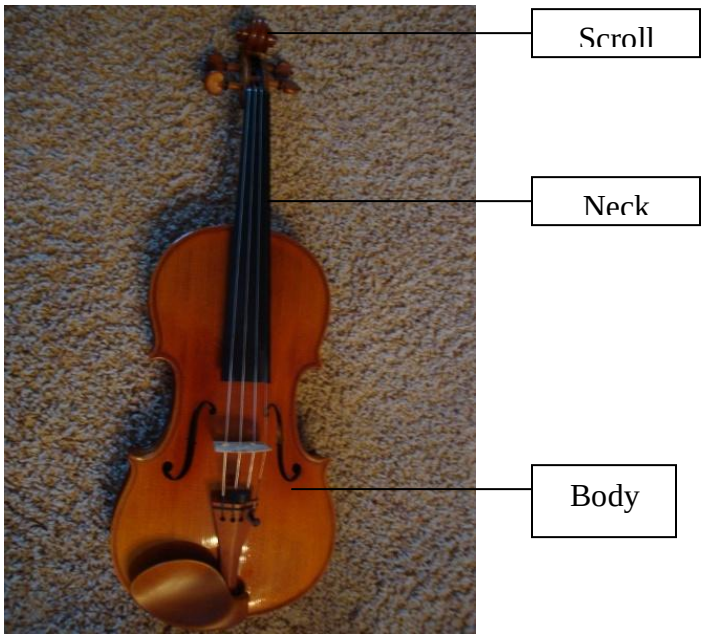

Figure 1. Whole Violin with Labeled Main Components

Composition and Technical Specification

1. **Scroll.** Holds the tuners in place and keeps the strings tight. It also enhances the appearance of the violin. Figure 2 shows the scroll with its components.

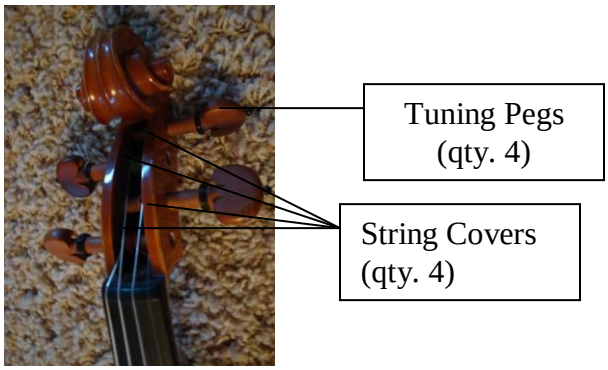

Figure 2. Scroll With Labeled Sub-Components.

1.1. **Tuning Pegs.** Wooden pegs that, when rotated, increase or decrease the pitch of the strings by changing the tightness of each.
   1.1.1. Length 6 cm
   1.1.2. End height: 2.4 cm
   1.1.3. Pole diameter: .7 cm

1.2. **String Covers.** These nylon coverings prevent the strings from slicing into the soft wood of the tuning pegs.
   1.2.1. Length: 4.5 cm
   1.2.2. Diameter: .05 cm
   1.2.3. Colors: (From top peg to bottom peg) Blue, Green, Orange, and Orange.

2. **Neck.** The neck allows the player to play different notes by pressing a finger on one of the strings. It connects the scroll to the body. Figure 3 shows the neck with labeled components.

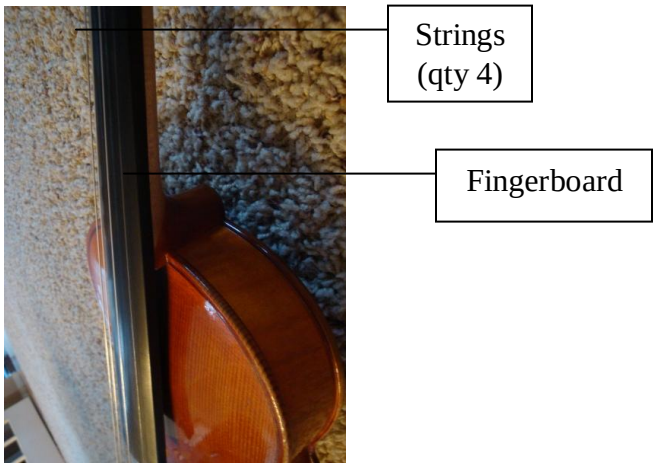

Figure 3. Neck With Labeled Sub-Components

2.1. **Strings.** These vibrate when the player drags the bow hair across them.
   2.1.1. Length (on violin): 45.5 cm
   2.1.2. Diameter: .05 cm
   2.1.3. Material: Titanium
   2.1.4. Color: Silver

2.2. **Fingerboard.** This wooden surface lets the player press strings to change the pitch. Also attaches to the body.
   2.2.1. Length: 27.7 cm
   2.2.2. Width (near body): 3.9 cm
   2.2.3. Width (near scroll): 2.4 cm
   2.2.4. Height: .5 cm
   2.2.5. Material: Wood
   2.2.6. Color: Black

3. **Body.** This wooden cavity of the instrument resonates and amplifies the sound. Players hold this part with their chin. Figure 4 displays the body with labeled components.

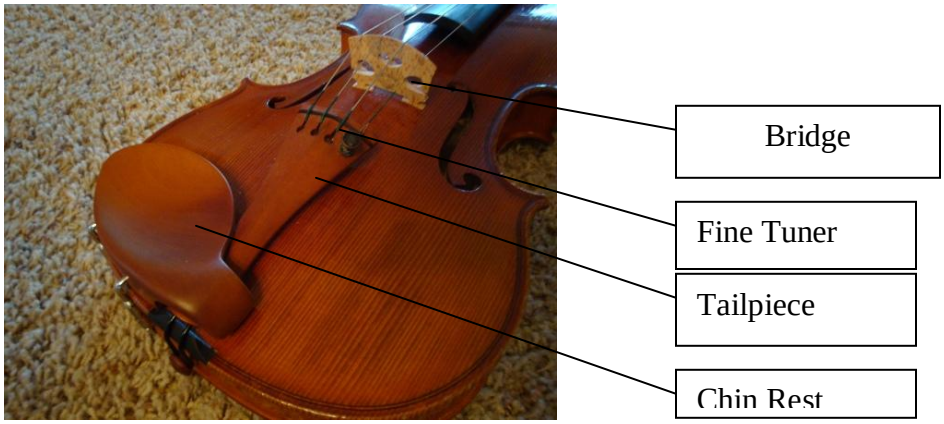

Figure 4. Body With Labeled Sub-Components

3.1. **Bridge.** Suspends the strings above the body. Allows vibrations to travel from the strings to the body.
- 3.1.1. Length: 3.9 cm
- 3.1.2. Width (at base): .5 cm
- 3.1.3. Width (at top): .2 cm
- 3.1.4. Height: 2.8 cm
- 3.1.5. Material: Wood
- 3.1.6. Color: Light Brown

3.2. **Fine Tuner.** Allows the player to tune the fourth string more precisely.
- 3.2.1. Height: .7 cm
- 3.2.2. Diameter (at base): .6 cm
- 3.2.3. Diameter (at top): .8 cm
- 3.2.4. Material: Metal
- 3.2.5. Color: Black

3.3. **Tailpiece.** Pulls the strings tightly. Takes some of the vibrations.
- 3.3.1. Length: 10.2 cm
- 3.3.2. Width (near bridge): 3.7 cm
- 3.3.3. Width (near chin rest): 2 cm
- 3.3.4. Height: .3 cm
- 3.3.5. Material: Wood
- 3.3.6. Color: Red-Brown

3.4. **Chin Rest.** Allows players to grip the violin with their chin.
- 3.4.1. Length: 10.3 cm
- 3.4.2. Width: 5.4 cm
- 3.4.3. Height: .3 cm
- 3.4.4. Material: Wood
- 3.4.5. Color: Red-Brown

Conclusion

The VL230 violin resonates and amplifies the string sound. Players drag a separate violin bow across the strings to produce the sound. By using this violin, users can play a variety of notes with dynamic volume and rich tone.

FOG Index – 9.165

Passive/Active Percentage – 0%