

Canons Tools and Parts

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Canons (1)

For assembly details see: https://chrysalis-foundation.org/Forster-s_Canon.htm

In clear bag, for the bridge/carriage assemblies: blue EAR-ISODAMP C-1002 custom made washers. See Canons (3).

In clear bag, for the Delrin bridges: #8 × ¾ in. stainless steel flat head tapping screws.

For the bridge plates: 10-32 × ¾ in. black oxide button head cap screws and hex nuts.

These Holo-Krome fasteners have a high-quality black oxide coating. MSC #75459420.

For the bridge/carriage assemblies: 4-40 × 1.0 in. black oxide socket head cap screws. See Canons (3).

Four rosewood nut lifters and one ebony nut lifter.

In clear bag, ¼-20 stainless steel soundboard support post fasteners and washers. See Canons (5).

Nine extra Harmonic/Melodic Canon bridge/plate assemblies.

Extra black anodized aluminum bridge plates.

Six extra Bass Canon bridge/plate assemblies.

Various ball-end hex drivers for the bridge plate cap screws and the carriage cap screws.

Extra gold anodized Harmonic/Melodic Canon and Bass Canon aluminum carriages.

One extra ¾-16 hand knob for fastening the 1.5 in. × 1.5 in. aluminum tube rails to the stand; one tuning gear crank.



Canons (2)

From left to right:

H/M Canon drilled Delrin bridge blanks with a height of ≈ 1.40 in.

Bass Canon drilled Delrin bridge blanks with a height of ≈ 1.410 in.

Three custom tools for holding and cutting Delrin bridge blanks at the band saw.

Bridge-to-plate #8 $\times \frac{3}{4}$ in. stainless steel flat head tapping screws.

In clear bag: E-Z LOK (formerly: Rosan, Inc. #RNS102SB6) steel knife thread inserts with internal 4-40 machine screw threads.

To fasten the carriages to the soundboards, I epoxied these inserts into the soundboard ribs.

See: https://chrysalis-foundation.org/Forster-s_Canon.htm

To reduce weight, a jig for holding and grinding nine inserts to half their original length.

Aluminum dovetail track samples.

H. H. Smith #9180 nylon inserts for lining soundboard carriage holes.

Thread-boring hand tool for holding Delrin bridges while sanding and polishing.

Nut driver for tightening nuts of Delrin bridge blanks holding tools.

Bridge, plate, and carriage drilling jigs.



Canons (3)

Extra and complete bridge/carriage assemblies: two different short carriage lengths with lower bridges and light gold anodizing for Harmonic/Melodic Canon.

Extra and complete bridge/carriage assemblies: two different long carriage lengths with higher bridges and dark gold anodizing for Bass Canon.



Canons (4)

Harmonic/Melodic Canon: mounted in sets of 4; one set of 3 plus one cut apart.

Bass Canon: mounted in sets of 3.

48 extra sets of 3 = 144 individual gears.

No brand name.



Canons (5)

From left to right:

Three soundboard height gauges for measuring the distances between the canon ribs and the canon bottoms.

Wing nuts used to lock coupling nuts.

Saw frame with 0.019 in. diamond wire saw for Harmonic/Melodic Canon bridge notches only! Plus one extra wire saw.

Saw frame with 0.028 in. diamond wire saw for Bass Canon bridge notches only! Plus one extra wire saw.

Three extra Bass Canon soundboard support post flanges.

Eleven H/M Canon soundboard support posts and fasteners.

(1) *Do not install these posts under normal playing conditions.*

(2) See special installation instructions in:

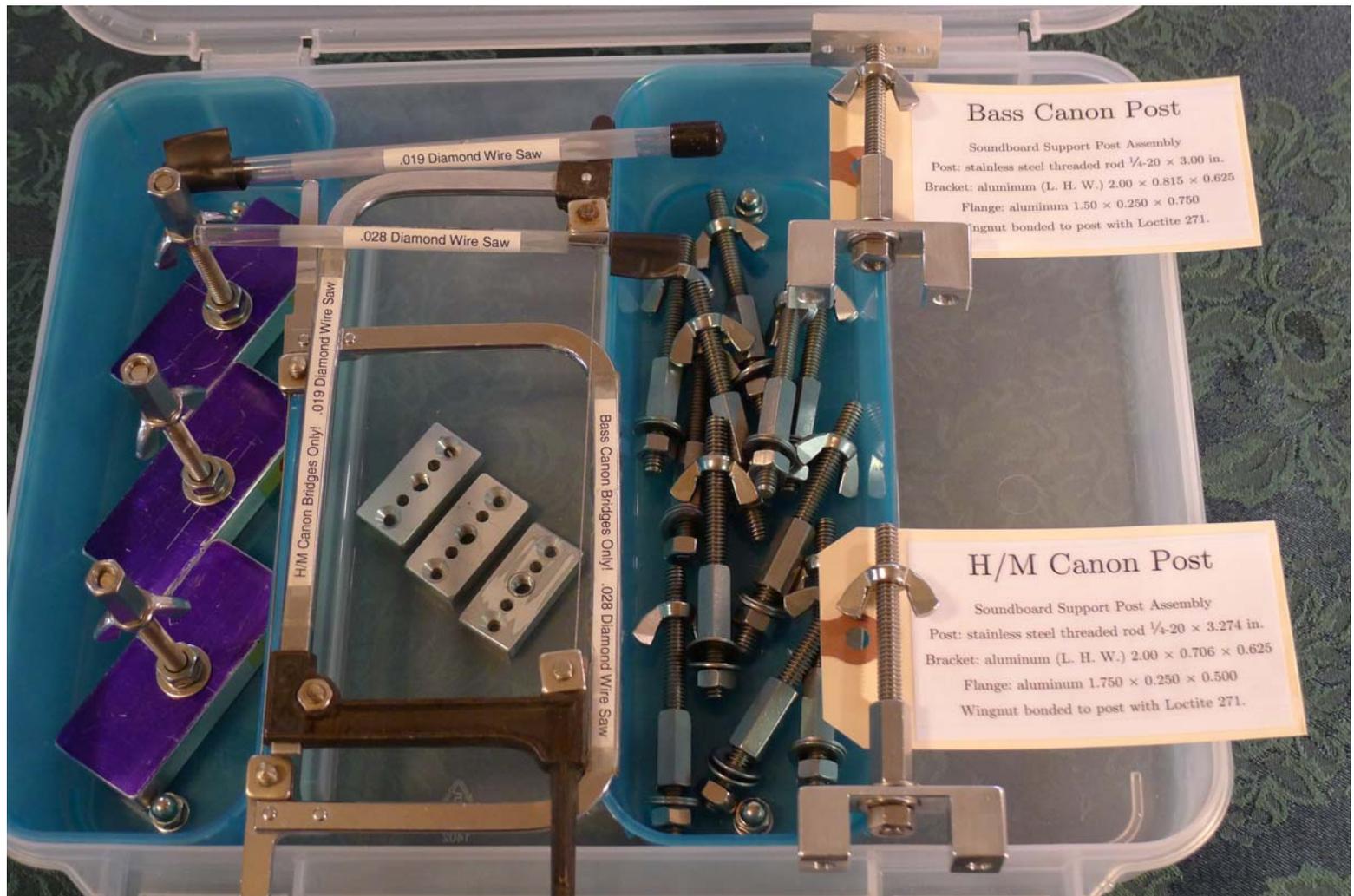
https://chrysalis-foundation.org/Canons_Soundboard_Support_Posts_Manual.pdf

(3) Special installation instructions also posted inside the back of the canon.

One extra Bass Canon soundboard support post assembly: 1/4-20 stainless steel threaded rod post, flange, bracket, and fasteners.

One extra H/M Canon soundboard support post assembly: 1/4-20 stainless steel threaded rod post, bracket, and fasteners.

(No extra H/M Canon flanges in box.)



Chrysalises and Canons Music Wire

Röslau music wire sizes #6: 0.016 in., #8: 0.020 in., #9: 0.022 in., and #10: 0.024 in.

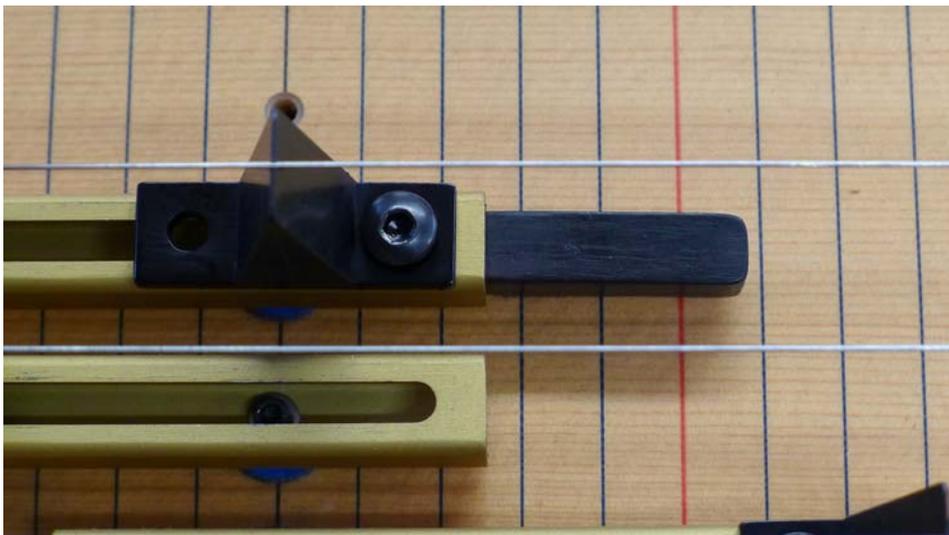
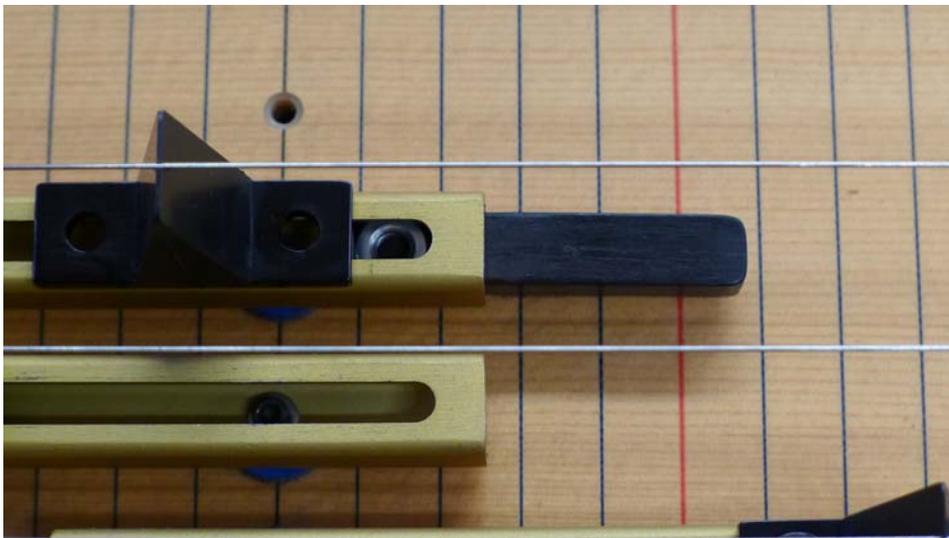
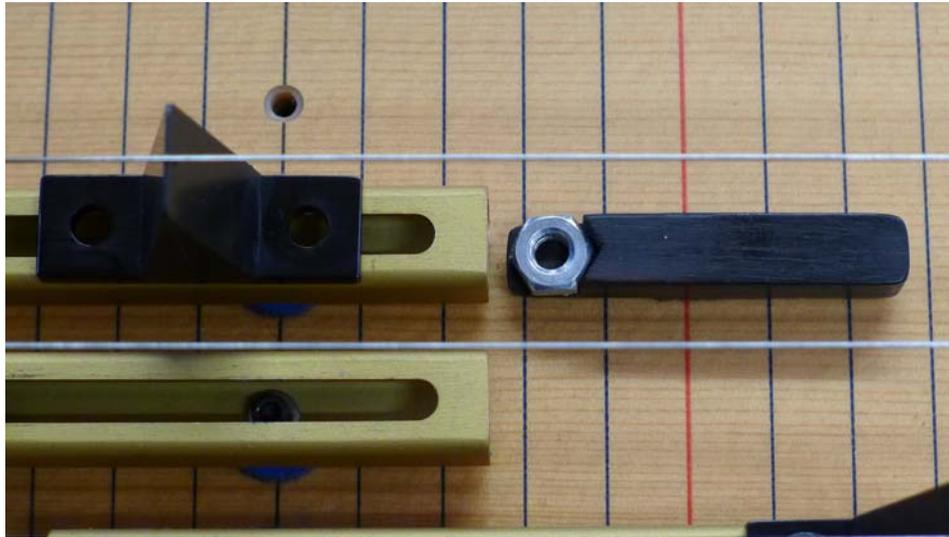
Loop-making machine for plain strings: Chrysalis I and II, Harmonic/Melodic Canon, and Just Keys.

Loop-making machine for wound strings with brass balls: Bass Canon.



Canons

Bridge Nut Lifter



Bass Canon

Customized Loop-Making Machine for Turning Brass Balls

