

# Assembling the Pickup

Start by using a 3D printer to manufacture the parts found here:

<https://a360.co/2ZsD8Nk>

<https://a360.co/33CPYL1>

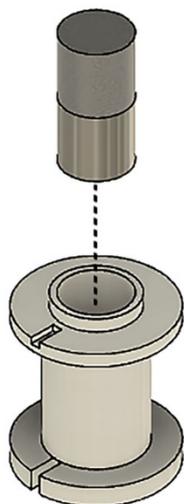
**1**



Glue the ring with the split in it to the closed end of the tube, as shown.

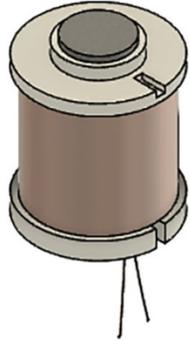
Glue the closed ring to the open end of the tube, as shown.

**2**



Put a large drop of superglue into the open end of the pickup and press the magnet down into the tube

**3**



Wrap the tube with wire, leaving a three-inch tail through the slot on the lower ring.

After wrapping, bring the wire back through the slot and trim it to match the first tail.

Cover the wire wraps with tape to keep them from coming undone.

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## Preparing the Tuning Pegs

Your instrument can have 1, 2, or 3 strings. For each string, you will need a tuning peg.

**1**



Using a 1/8" drill bit, drill a hole in each tuning peg as shown.

# Preparing the Screws

For each string on your instrument, prepare one screw.

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**1**



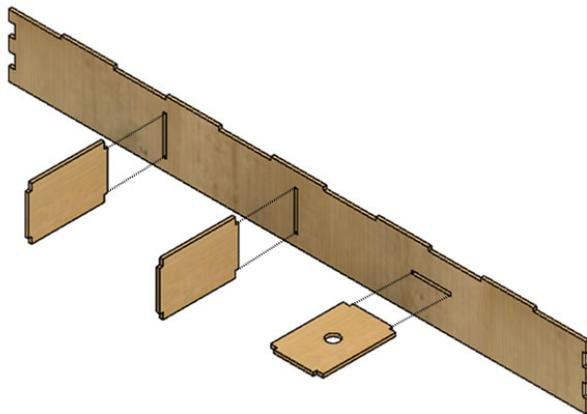
Put two washers and a nut on each screw as shown.

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Instructions continued on the next page.

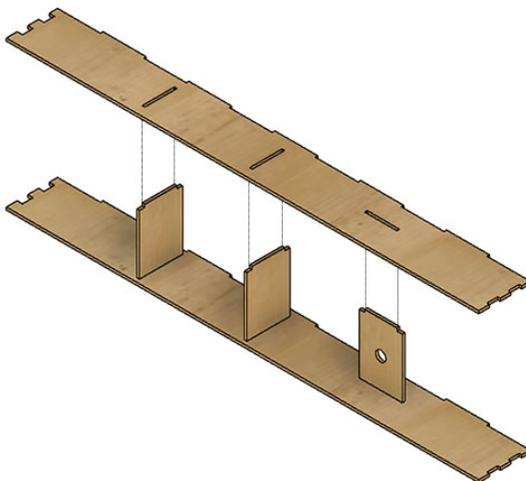
# Assembling the Instrument Body

1



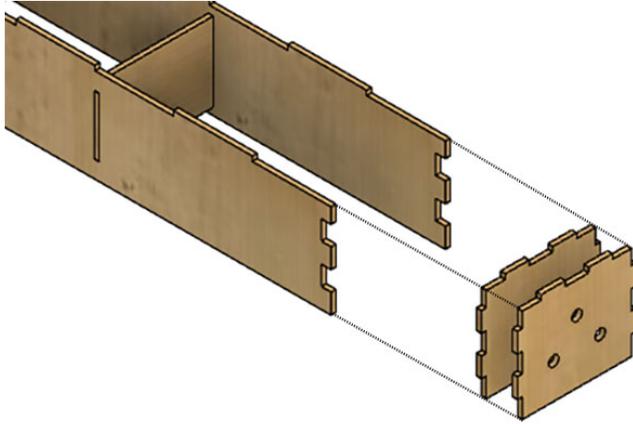
Take both **Braces** and the **Pickup Support**, and insert one end of each into one of the **Sides**.

2



Place the instrument with the **Braces** facing up, and press the other **Side** down onto the **Braces** and Pickup Support.

3

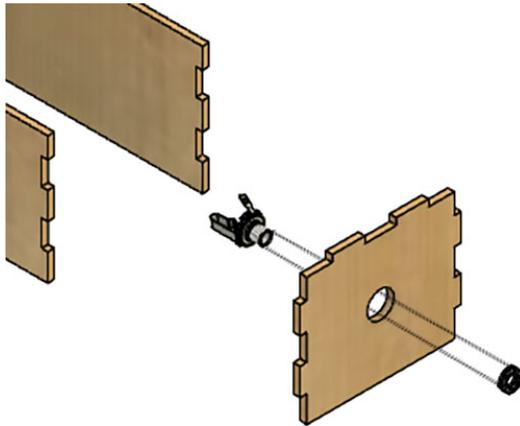


Place the instrument with the flat side down. Line up the **Inner Tuner End** with end of the sides furthest from the **Pickup Support** and glue it into place.

Line up the **Outer Tuner End** and glue it to the **Inner Tuner End**.

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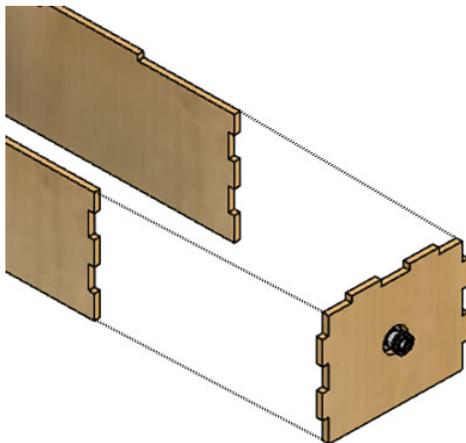
4



Insert the threaded end of the 1/4" jack through the hole in the **Jack End**. Place the washer over the threads and tighten the nut.

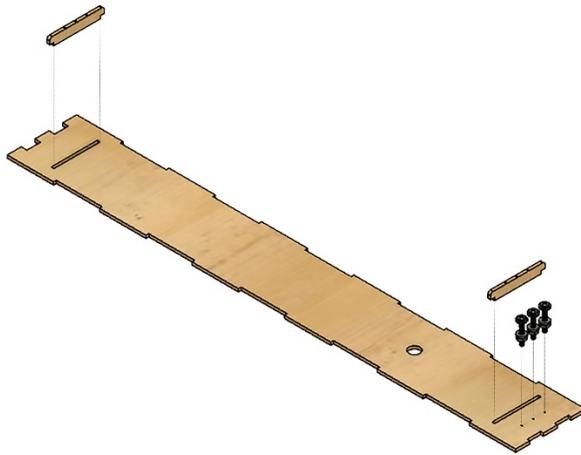
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5



With the threaded end of the jack facing out, align the **Jack End** with the sides and glue it into place.

6

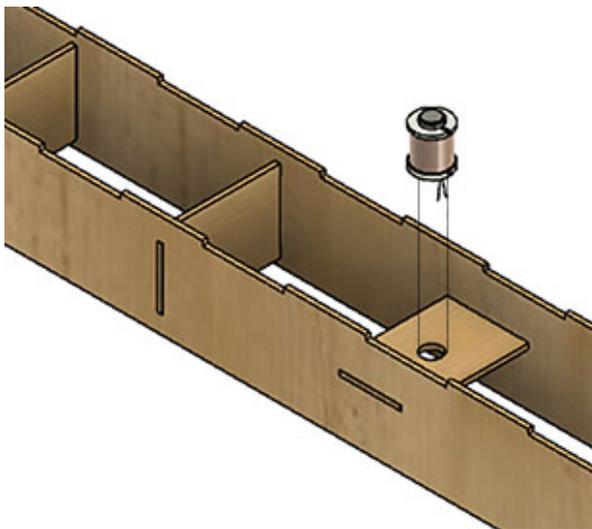


Align the **Bridges** with the slots in the **Top** and press them into place.

Put a screw assembly through each hole so that the wood is sandwiched between the washers and tighten the nut with your fingers.

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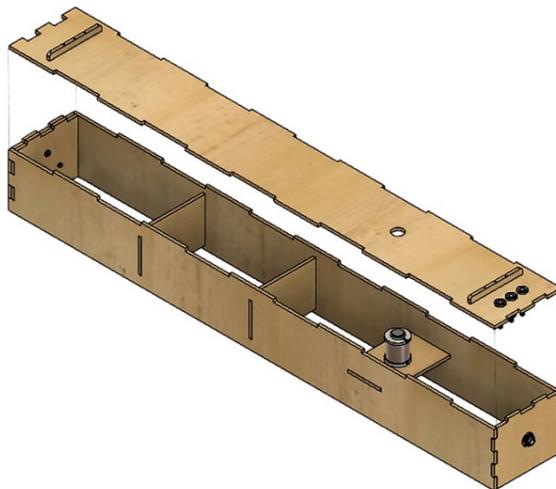
7



Feed the leads from the wire coil through the **Pickup Support** and rest the pickup on it so that the magnet is facing up.

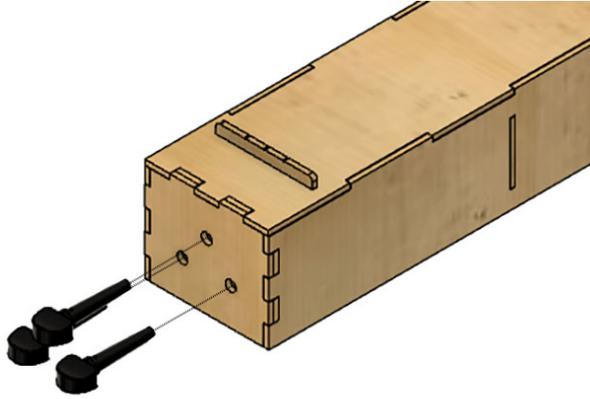
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8



Line the **Top** up over the instrument body as depicted and press it down into place.

9

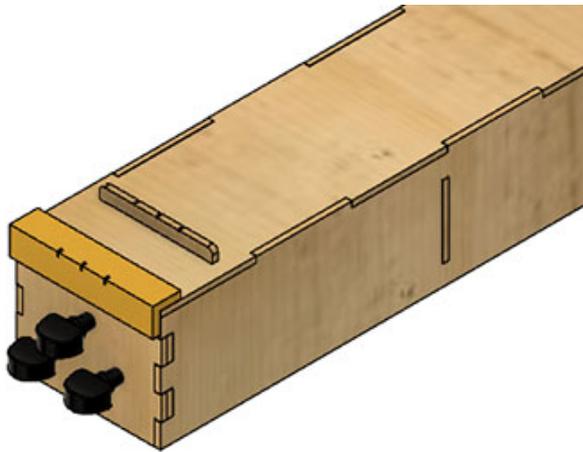


Insert the tuning pegs into the holes at the head of the instrument.

The example here shows a three stringed instrument.

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10



Place the 3D Printed guard on the edge of the instrument above the tuning pegs.

The guard may be glued, but doesn't need to be. The pressure from the string will hold it on.

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Turn the instrument over and solder the wires from the pickup to the contacts on the jack. You may need to solder in additional wire to make it reach.

Tape the wires to opposite sides of the instrument to keep them from touching.

# Adding the Strings

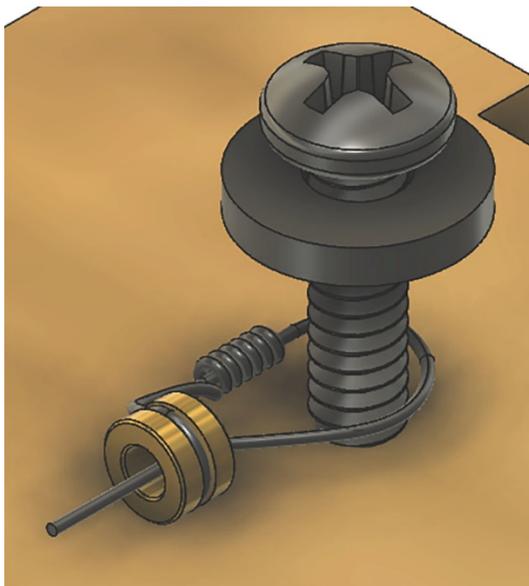
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1



Take the ball end of the string and feed the other end through it, creating a loop.

2



Place the loop over the head of the screw, between the washer and the wood.

Pull the string to tighten it around the screw.

You may have to loosen the nut some. Be sure to retighten it when you're done.

3



Feed the other end of the string through the **Tuning Peg**. Continue pulling the string through until it is resting lightly on both bridges and the guard.

Loop the extra string back around under itself as show to keep it from slipping.

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Turn the **Tuning Peg**, pushing it in firmly when you're done to tighten the string until it is tight. It will stretch over time, so you may need to periodically retighten it.

**Your instrument is complete!**