

Breaking Down a Gammill/Statler Machine

Kelly Gallagher-Abbott Jukebox Quilts

You will need:

- 4 mm Allen wrench, preferably a T handle type
- Two 9/16" reversible combination ratcheting wrenches
- Two adjustable wrenches
- Two strong sawhorses
- 6 or 8 padded blankets
- Old towel or rug to set the head on – this will end up with oil on it
- Appropriate straps and tie downs to secure all items in trailer
- Baggies for small parts
- Boxes for small items and computer components
- Bubble wrap
- Phillips head screwdriver
- Painter's tape
- Shrink wrap or saran wrap to cover the canvas leads

1. Remove light bulbs and light shades from lightbar, pack carefully.

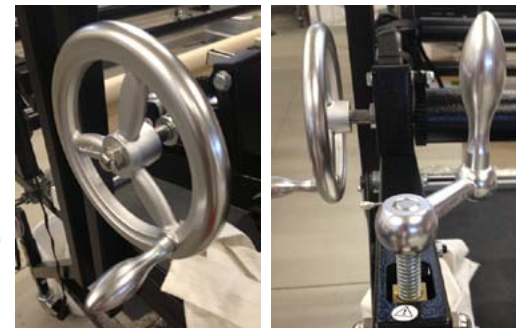
2. Remove tabletops. Place in box or wrap with blankets.

3. Unplug cords from the back of the machine head. Unhook all belts from the cross track and machine (two belts on newer machines, three on older). **Caution:** If there is an encoder near the rear right handle of the head, release it from its spring and rubberband it to the handle to prevent it from getting bent or damaged.

4. Remove the three hand wheels. There is a nut that will be removed with an adjustable wrench. Remove the handle from the large one, then carefully pull each wheel off. There will be a small half circle key in a notch on the shaft. Place these in a baggie. The wheels are very soft and can be scratched – wrap them with bubble wrap and place in a box. Also remove the chrome handle that lifts the take up bar and wrap and pack in box. Only the vertical part of the handle needs to be removed.



Encoder in proper position on left, encoder released from spring on right.



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5. On the hand wheel end of the machine, remove the nut and washer from the bolt that secures the metal cap that covers the bearing on the takeup bar. Flip the cap to the side.

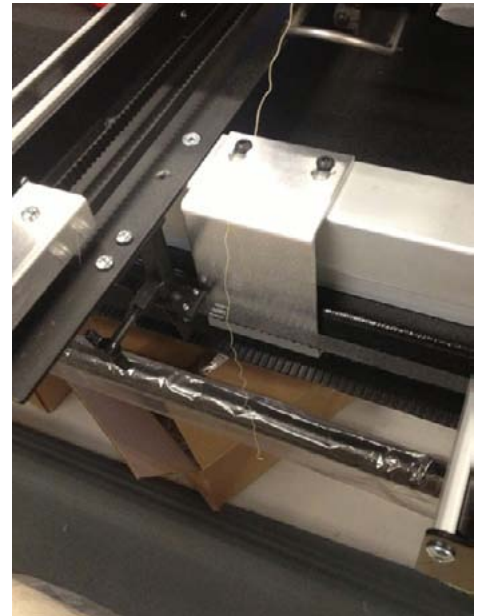
6. On the opposite end of the take up bar, there is a collar that is at the end of the bar. Use the Allen wrench to loosen the set screw, and remove the collar.

7. You can now lift the take up bar off the table. Place the collar back on the end and tighten the setscrew. On the hand wheel end, flip the bearing cover back into place and put the washer and bolt back on, finger tightening these. Cover the fabric on the take up bar with shrink wrap to prevent it from getting soiled. **Caution:** make sure the machine head is positioned close to the belly bar. If it rolls toward the back of the machine,



8. The head can now be removed from the table. Two people can do this by positioning your hands on the metal part of the handles at the front and back of the machine, below the foam handles. Carefully lift it and place it on a rug or old towel. There will be oil on the bottom of the machine head. **Caution:** do not lift the head by holding the foam handles. These can easily pull off.

9. If there is a front bracket on the cross track, loosen the bolts and remove it if necessary. The cross track can now be lifted off the table, secure the cables and wrap in blankets. **Caution:** remove the spring from the encoder on the bottom of the cross track, and spin the encoder toward the back of the track. Secure with tape to prevent the encoder from being bent when reassembling the machine. To be totally safe, you may want to remove the encoder unit completely.



10. Remove the clamps and Velcro straps from the leg units. Roll these and secure the straps with rubber bands. Place in box with wheels and handles.

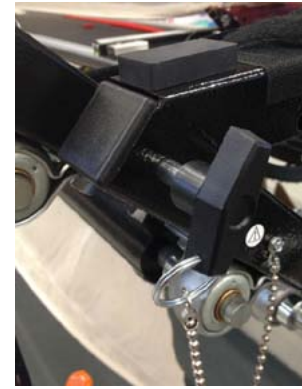


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11. Remove the computer monitor, speaker, keyboard and mouse. Remove the computer monitor mount (we leave the monitor attached to the mount for transport). Disconnect all cables from the computer and the controller, secure and place in box. Remove the red key (dongle) from the computer and place in a very safe place. We tape this to the computer. Properly pack all of these components and cables. Dismantle and pack any mounting systems if used (for the computer, controller and battery backup). **Caution:** if the dongle is lost or damaged, replacements are around \$1000.

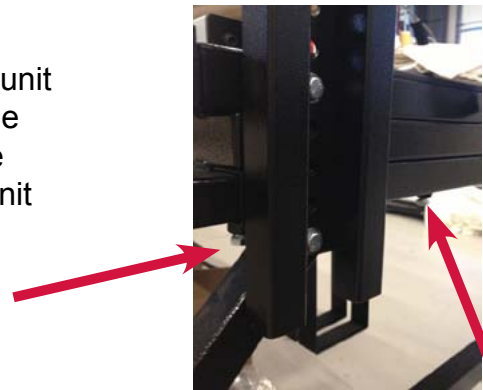


The pin that positions the front pivotal access assembly.

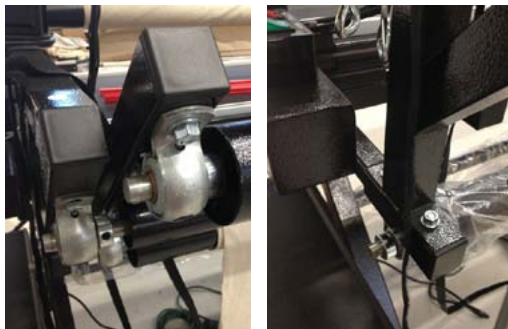
12. Remove the pin (on a chain) from the front pivotal assembly. Tape this to the arm that the Velcro is on.

13. Loosen the two bolts that hold the front pivotal access unit and backing bar in the legs. These bolts are located under the horizontal bar on the table legs that is knee level. Loosen the collars from the ends of the center bar of the pivotal access unit and the ends of the backing bar, removing them if necessary.

14. With a person on each end of the table, slide the side units out of the table and set the whole assembly on the floor. The pivotal access unit (three bars in one unit) and the backing bar can then be removed from the side units. Slide the side units back in place (all the way to the table) and finger tighten the two bolts on each leg unit for transport. Wrap the leads to keep them from getting soiled. Put the collars back in place and tighten the set screws. There is no need to break the front pivotal assembly down any further.



Bolts that hold pivotal access assembly.



Remove the collars only from the center bar of the pivotal access assembly and the backing bar. (Step 13)



The entire pivotal access assembly is attached to the table leg at this point. These side brackets hold the pivotal access assembly and backing bar.

Once the front pivotal access assembly and backing bar is removed, it is much easier to access the hydraulic system for removal - see final page for instructions.



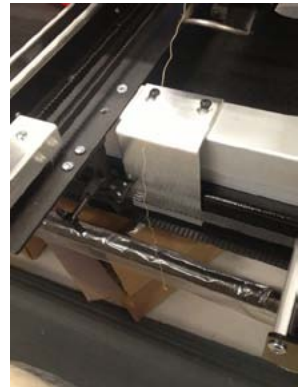
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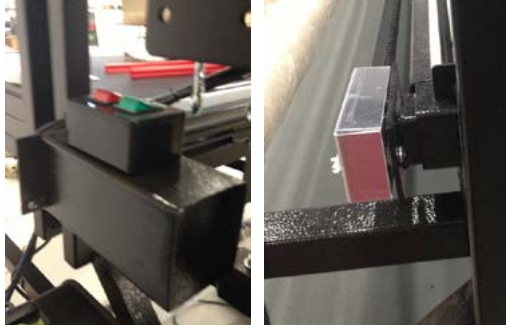
15. Remove the batting bar from the table.
16. Lift one end of the table, and slide a saw horse under the table. Repeat with the other end.
17. Remove the four silver bolts that hold the table leg units onto the table using the ratcheting 9/16" wrenches. Place all bolts, washers, and nuts in the plastic baggy.
18. If there is a lightbar, four of these bolts hold it in place. Carefully lift it off the table. The legs of the lightbar fold up and around to the top bar, then the whole unit folds in half. Make sure no cords are pinched and properly wrap the light bar unit.
19. The horizontal belt system now needs to be removed. Loosen two of the screws that hold the belt ends on the T pin. (Older machines have a belt on the front and back of the table.) Roll the belt(s) and wrap with shrink wrap to protect them.
20. Remove the two belt pulley units from each end of the table. If these are the kind that slip into the table legs, there might be some spacer washers inside. Remove these and put in the baggie. Wrap the pulley units and place in the box.



The two front bolts also hold the light bar in place.



Disconnect the belt from this T pin to remove and coil.



Right and left pulley units.



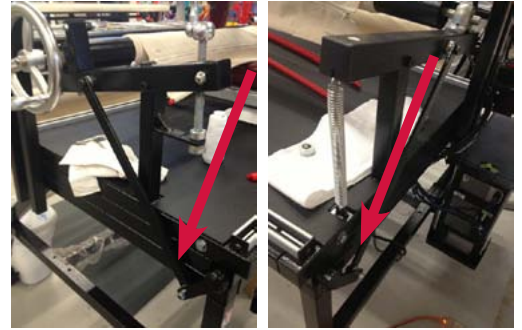
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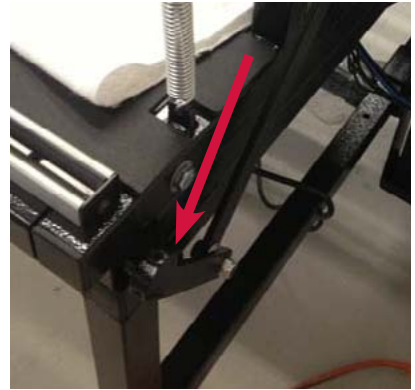
21. The arms that held the take up bar have metal extensions with an elbow that extend down to a long pipe that travels along the inside back of the table. At the ends of this elbow bracket, two set screws hold a cap on the long pipe. Loosen these with the 4mm allen wrench, and they will pull off the pipe. Carefully cover the inside and outside of these caps with painter's tape to prevent the set screws from becoming lost!

Take up bar elbows



22. The table legs can now be removed from the tabletop. Wrap these with blankets.

23. The table can now be lifted off the sawhorses. If possible, this can be transported as one unit. If it is too heavy or difficult to get out of a tight area, it can be broken down further, but this will add extra time to reassembling the machine. Caution: if you will be going up or down stairs, the pipe that travels along the back of the table (part of the take up bar assembly) can slip out of the table. You may wish to secure this in place with tape.



24. For transport, the table can be placed on the floor of the trailer. The front pivotal assembly will nest onto the top of the table unit, and the other long bars will also nest in place. The tabletop can then be stored on top of these. The leg units can be attached to the side of the trailer, standing up (lock casters).

The cap that is attached to the pipe. There are two set screws on each end.

25. The head should be carefully strapped in place, making sure the straps do not come into contact with thread guides, etc. We occasionally transport the head in a car, using the seatbelts to secure it. Caution: if you are using ratcheting tie downs, do not over tighten. It is possible to damage the head if the needle end of the head strapped too tightly.

Do not hesitate to call us with questions. Kelly's cell is (970)692-1290, and Jim's is (970)692-1308. Please use caution and good body mechanics to prevent injuries!



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Removing the hydraulics:

The optional hydraulic system consists of a power supply, a pump attached to the leg pistons by long tubes, and metal leg brackets the pistons fit in. There is also a metal bracket that holds the power supply and pump attached to the table.

Disconnect the power supply from the pump. Remove it from the metal bracket. Unbolt the pump assembly at this time.

Unscrew the feet off the pistons. Remove the plastic cover at the top of the hydraulic leg bracket. Unscrew the Allen wrench screws that hold each piston in the leg and put them in a baggie. The piston can then be lifted (carefully) out of the leg. Coil the tubing and secure with twist ties. Do one leg at a time and mark with right rear, left rear, right front, left front.

Remove the leg brackets from the table legs. Place all bolts in a baggie.

Unbolt the metal bracket that held the pump and power supply from the table.

Caution: be very careful the hydraulic tubing is not kinked or damaged in any way. Place these in a box with bubble wrap for transport. When lifting the pistons out of the legs, push from the bottom until you can grip the solid metal part of the piston. DO NOT lift the piston by pulling on the tubing.



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