

range-road

RR103 Live Log Deck
Assembly of the RR103 live roll log deck.



This table is designed to be used on either side of the processor and this table has an extension kit available to add an extra 7' of width -The RR104



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Open crate and remove items from box. Remove plastic wrap and lay out like items together for easy identification later.





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There are four large frame pieces that make up the table of the 103.

Place the frame piece with the "range-road" sticker upside down as shown in the photo.

Remove the 4 bolts in the end plate but keep them handy as you will need them in the next steps.



The next piece required is going to have the "RR103" sticker and the mount for the hydraulic motor.

Take this piece and place it upside down as shown in the photo, then butt it up to the first piece.





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Bolt the two pieces together but leave the bolts loose enough to offer some wiggle room between the frame pieces.



Now the intermediate legs are going to be installed onto our frame pieces.

The first one to be installed will be at the end of the frame, near the hydraulic motor mount bracket.

There are slight differences in the intermediate leg pieces in this kit.

Double check that the piece installed here looks exactly like the one shown in the photo.

Ensure the two, small tabs with the single bolt are facing toward the hydraulic motor bracket





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Here is a photo showing that intermediate leg bolted into place.

Do not tighten these bolts completely, leave some wiggle room to ease the installation of the support beams in later steps.



The next intermediate leg to be installed will look exactly like the one shown here.





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Install intermediate leg onto the middle of the frame pieces.

Ensure the tabs on the leg are in line with the frame pieces.

These bolts will be left slightly loose as well.



The 3rd intermediate leg to be installed will look exactly like this.

It is easily identifiable by its "J" shape.





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Bolt the 3rd intermediate leg onto the end of the frame.

Leave the bolts slightly loose here again.



Now assembly will start on the other half of the table.

As with before, the two remaining, large frame pieces will be bolted together in the center.

Bolts left slightly loose here as well.





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When laying out the other half of the table, make sure the pieces are orientated so that the two halves are a mirror image of each other.



Note how the brackets are the same size in each photo





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Now the intermediate legs will be installed onto the 2nd half of the table.

Because the two halves are mirrored, it is easy to install the legs in the exact same manner as before.

Leaving bolts slightly loose to allow some wiggle room between pieces.



Showing the center legs installed onto the frame pieces.





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The other end of the table showing the two intermediate legs installed onto the frame pieces.

Also shown is the lower leg that will be inserted into the intermediate legs in the next steps.



Picture showing the first lower leg being installed into the intermediate leg.

The picture shows 4 holes remaining on the lower leg, but it is recommended to leave only two as it matches the height of the processor better.



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All the legs are installed on the frame pieces at this stage now.

Next steps will be to flip the pieces over so they are sitting upright.



Picture of the pieces flipped over.

Note how they are still mirror images of each other





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Now the two long, support bars will attach the two halves of the table together.



Picture showing the bars installed between the two frame halves.





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Leave the bolts slightly loose here as well.



Next up the infeed portion of the table will be assembled and then installed onto the table.





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The last two intermediate legs will be installed here, as shown in the photo.



Ensure the tabs on the intermediate legs are facing lengthwise down the infeed, as shown here.



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Now install the last two lower legs as shown in the photo.

Note how all the lower legs now only show two adjustment holes.



With assistance, flip the infeed over and into the square brackets on the table.





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Install, but do not fully tighten bolts here.



Now the support beams will be installed between the legs.

Leaving all the bolts slightly loose up until this point will greatly aid in the ease of the installation of these beams.





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First 4 bars being installed.

Do not fully tighten any bolts until all bars are installed.



Picture showing all the support beams after installation.

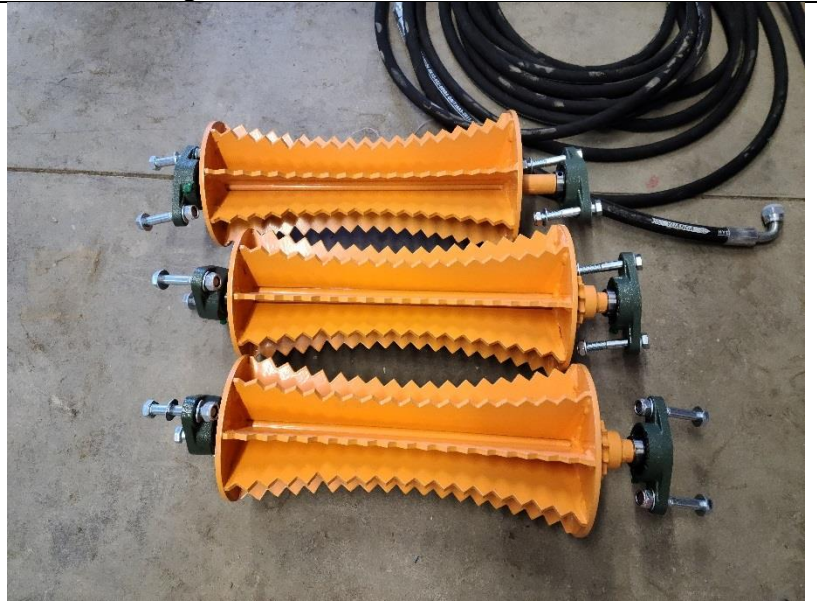
Now all the table hardware can be tightened down properly.



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Now the infeed rollers will be installed onto the infeed.

Note how only two of the rollers have a sprocket on the one end.



Install the rollers as shown in the photo.

The outside rollers will have the sprockets and the middle roller will not have one.

Also, the sprockets must be facing away from the table.



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Take special care to install the green bearing assemblies with the grease fittings all facing the same way- for ease of maintenance. Whether the fittings face up or down, is your preference.

Go ahead and tighten the bolts that hold the green bearing assemblies to the infeed now.



Now the chain will be installed onto the rollers.

There are 4 chains in this kit:

2 Large, long length chains

1 medium length chain

1 small length chain

This step will require the medium length chain.



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The chain has a master link AND a link with a cotter pin-as shown in the photo.

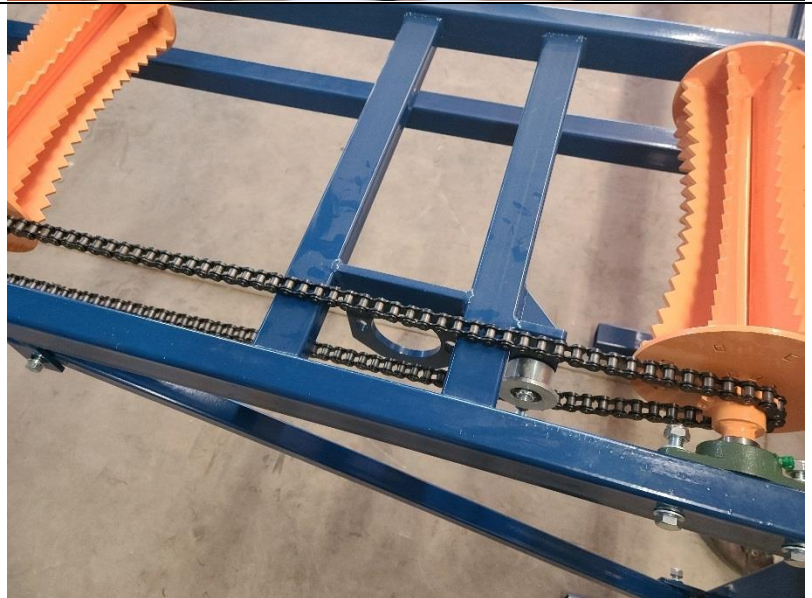
Separate the chain at either of these locations and drape over the rollers as shown in the previous photo.



Now, put the chain back together by joining the open ends together.

The chain is now loosely installed on the infeed.

Next up the hydraulic motor will be installed, and then the chain will be tensioned.



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Here is a photo of one of the two identical hydraulic motors that come in this kit.



The hydraulic motor is installed with the ports facing down and the chain below the gear.

Install the hydraulic motor as far down the in the bracket as possible, and then tighten bolts.

Now to tension the chain, loosen the bolt in the center of the tensioner pulley. This will allow it to move.

Now drive the long bolt up until the pulley starts putting tension on the chain.

You'll want to start with slight tension on the chain, not excessive.

This will be checked shortly after using the table as the chain will stretch and need re-adjusting as a regular maintenance item.



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The 2nd hydraulic motor will be loosely installed into the bracket on the table frame, along with the short chain.

Ensure the hydraulic ports on the motor are facing down

Installation is easiest by: placing the chain on the hydraulic motor gear while the motor is loosely installed into the bracket WITHOUT bolts

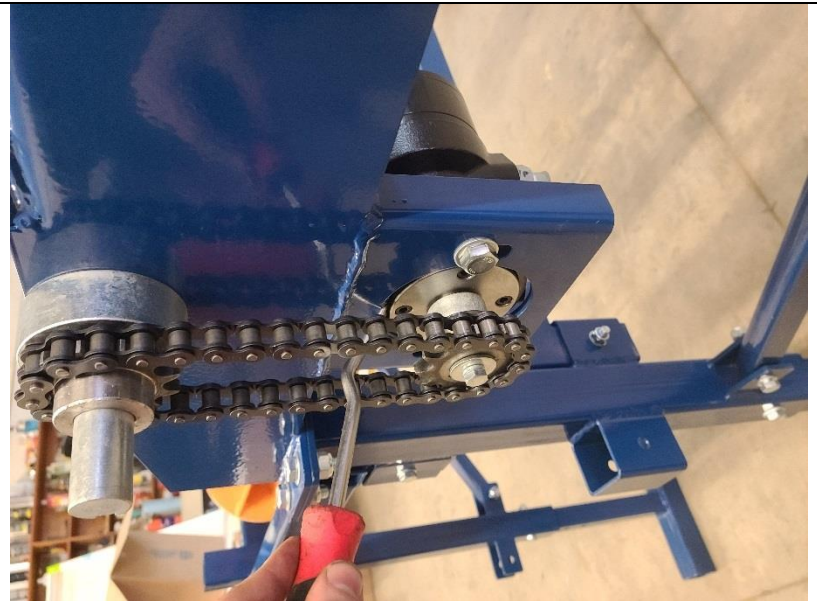
Then run the chain around the upper gear, then the bolts can be loosely installed to hold the motor into place.



Use a pry tool, or similar device to put downward tension on the hydraulic motor to give tension to the chain.

Once ample tension has been reached, the bolts can be tightened.

This is another area that will need to be checked for proper tension periodically after table use has begun.





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The table chain adjusters will be installed next.

These mount on the far end of the table, as shown in the next photo.



Ensure the gears are facing "in".

Leave the bolts loose at this time.



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Picture showing how the gear lines up with the rail that will eventually houses the chain.



When installing the chain adjustment plates, run the long, tensioner bolt "in" to allow the adjustment gear to be as close to the rails as possible.

This makes it much easier to install the chain in the next steps.



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Now the table chains will be installed onto the table, and then tensioned.

First step is to separate the chain at the master link as shown in the next photo.



The chain has already been separated in this photo. All the components that make up the master link can be seen here and are easy to identify on the chain with a careful eye.



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Take the chain and run it below the rail on the table frame.

Loop it up and around both end gears and pull the ends of the chain together to be re-joined.



If your chain ends aren't meeting up close enough to be re-joined, refer back a few steps and ensure your chain adjusters are fully slacked off and loose.



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Photo showing the master link installed which re-connects the chain.

Repeat this process for the other side of the table.

Both chains will be loosely installed and will only require tensioning.



Run the tensioner bolts "out" to put tension on the chain.

Once the chain is no longer touching the metal rails (or only SLIGHTLY touching the metal rails) then your tensioning bolt can be locked into place but the jam nut.

Then the two bolts for the tensioning plate can be tightened as well.

Repeat this process for the other side.

These chains will require periodic inspection to ensure proper tension.



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The drive bar will now be installed between the two halves of the table.



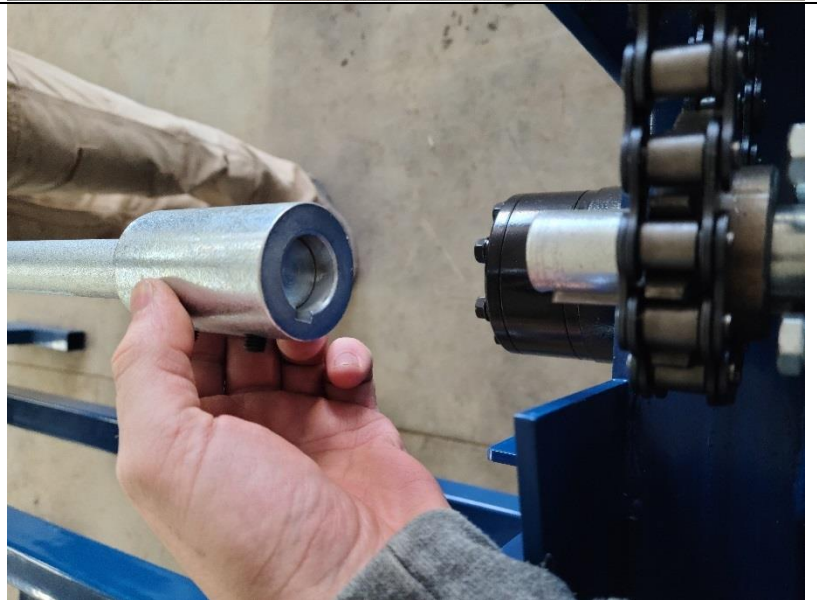
Take one end of the silver bar with the sleeve on it.

Loosen the black Allen head screw and then install sleeve over hydraulically driven shaft on the table.

Install sleeve about 2" onto shaft and then tighten Allen head screw to lock into place.

Be sure to tap the long, silver shaft into the sleeve until it meets up with the drive portion of the shaft- it should insert about 2" as well.

Tighten the 2nd Allen head screw down to lock shaft into sleeve.



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Install blue pipe over remaining silver shaft/coupler-then slide silver shaft into blue pipe as far as you can.

Now slide the other end of the blue pipe over the Silver shaft we just installed onto the table.

Then the silver shaft shown here can be pulled back out and meet up with the other side of the table as shown in the next photo.



Picture showing the other side already inserted into the table.

Ensure the long silver shaft and the table shaft are evenly installed into the coupler-each one installed about 2" into the coupler.

Tighten down both Allen head screws to lock into place.

Now the blue pipe should be centered between the silver shafts.



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Once the blue pipe is centered on the two shafts, line up the groove in the shafts with the bolts in the blue pipe.

These bolts will lock the shafts and pipe together allowing a power transfer across the table from the drive side to the driven side.

These bolts and Allen head screws will need to be checked often to ensure they are tight and adjusted properly.



Photo showing the blue pipe evenly installed and tightened onto the grooved, silver shafts.



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There are 6 square tube pieces remaining, we will be installing them in these next steps.

The first two pieces-which will be the longest, insert into the end of the table.

These are keep the logs from rolling off the backside of the table.



The next two, to be installed, will have two holes as shown in the photo.

These are installed on the table just before the infeed, to keep logs from falling onto the infeed when you don't want them to.



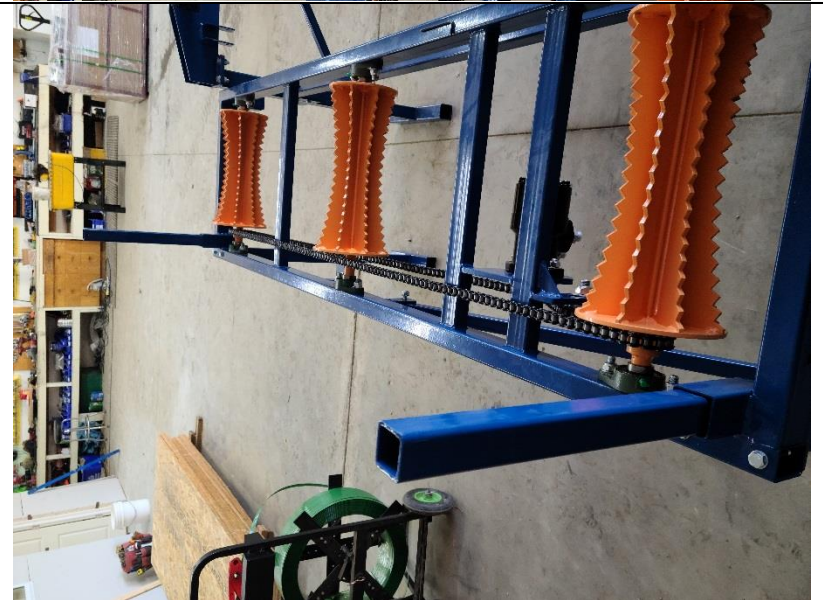
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Photo showing the bars installed, in their "up" position.

The bars are easily moved from up to down position even after installation bolts are tightened into place.



The remaining two bars install into the pockets on the infeed, so that your logs down not roll off while being moved.



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Now the hoses will be installed onto the hydraulic motors.

There are five hydraulic hoses with the kit.

2 Extra long hoses-these are for the table motor.

2 medium length hoses-these are for the infeed motor.

One short hose- this hose will be used to feed the double valve in this kit.

It will come directly off the REAR port on the pump and to the "P" port on the double valve- in the top right position.



The 2 medium length hoses installed onto the infeed motor.

It doesn't matter which hose goes where as the hoses can be easily reversed at the valve.

The two long hoses are installed onto the table hydraulic motor in the exact same manner.

Tighten up fittings.

Go over all bolts, hydraulic fittings, and chains to ensure everything is tight and tensioned properly before use.



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Ensure all grease fittings have been well greased and the caps replaced tightly afterwards.



These will be the remaining pieces after the table is assembled.

The blue bracket along with 2 x short bolts mount to the processor directly underneath the deck of the machine.

The valve will mount to the blue bracket with the 3 long bolts.

The two handles install onto the valve and allow you to actuate hydraulic flow.

As mentioned before, the short hose will feed the valve.

You will remove the current hose from the REAR of the pump on your processor, let it hang for now.

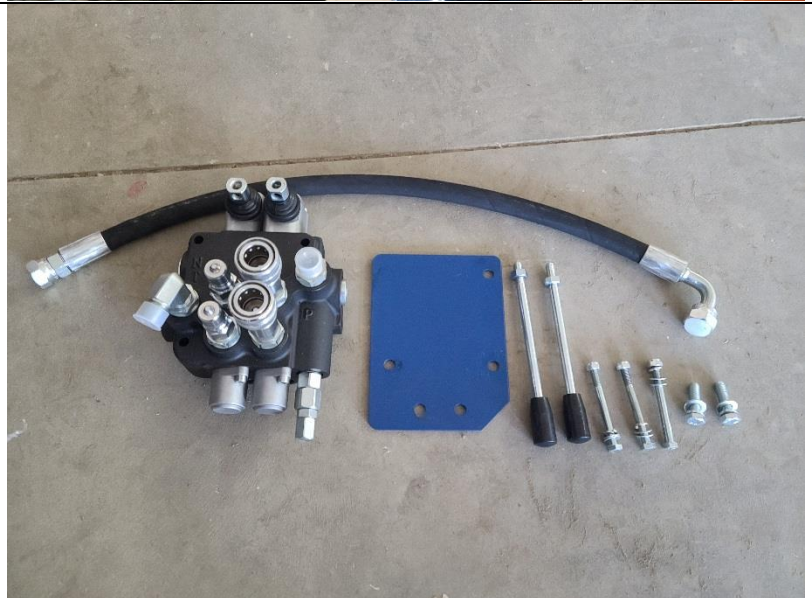
Install the straight end of your short hose that came in the kit into the now open REAR port on the pump.

Leave loose.

Bring the 90° up and over to the "P" port on the double valve - it is located in the upper right position on the valve.

Now tighten both ends of the short hose.

Next steps are to route the return side.





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<p>Now the hose that was removed from the pump initially (the one that is just hanging there) can be pulled up to the "T" port on the double valve - located in the lower left position on the valve.</p> <p>Tighten hose onto valve.</p> <p>Now your valve is plumbed to the machine.</p> <p>Now simply plug your quick connect ends from the table hoses into the double valve to their appropriate positions, fire up the machine and try it out!</p> <p>If the table tuns backwards from how you would like it, simply reverse the hoses at the double valve.</p>	