

ONE SOURCE. ONE SOLUTION.



## Assembly Manual

RPDGC-CHAIN  
INTERMEDIATE GATE GROUND CONTROL

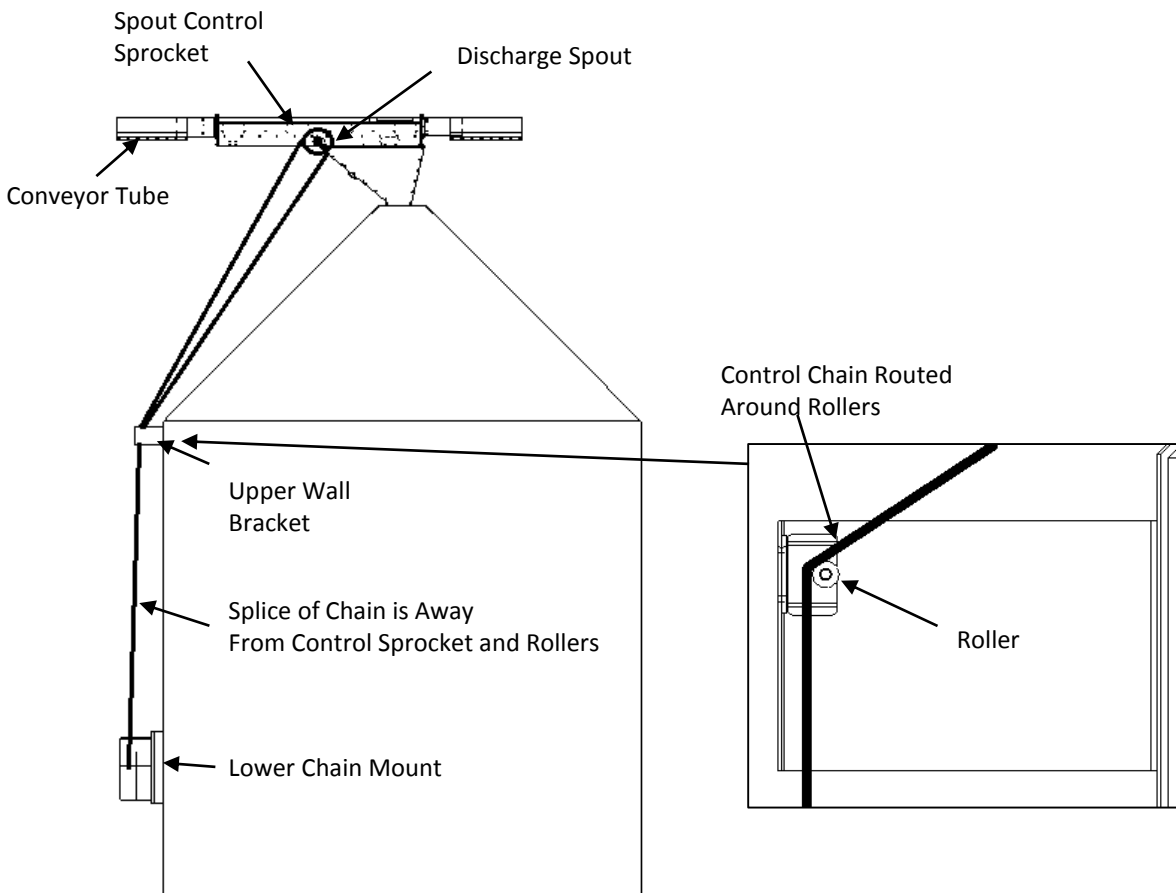


The discharge gate controls must be located in-line with the conveyor tube so that the control chain will track properly on the control sprockets. The chain should be one continuous length with only one splice. Plan where the splice(s) will be located (**the splice needs to be located so it cannot be pulled onto the sprocket wheel**). Although a chain is supplied with the kit. If additional chain is needed and requires more than one splice, ensure to locate the additional splice in the same way.

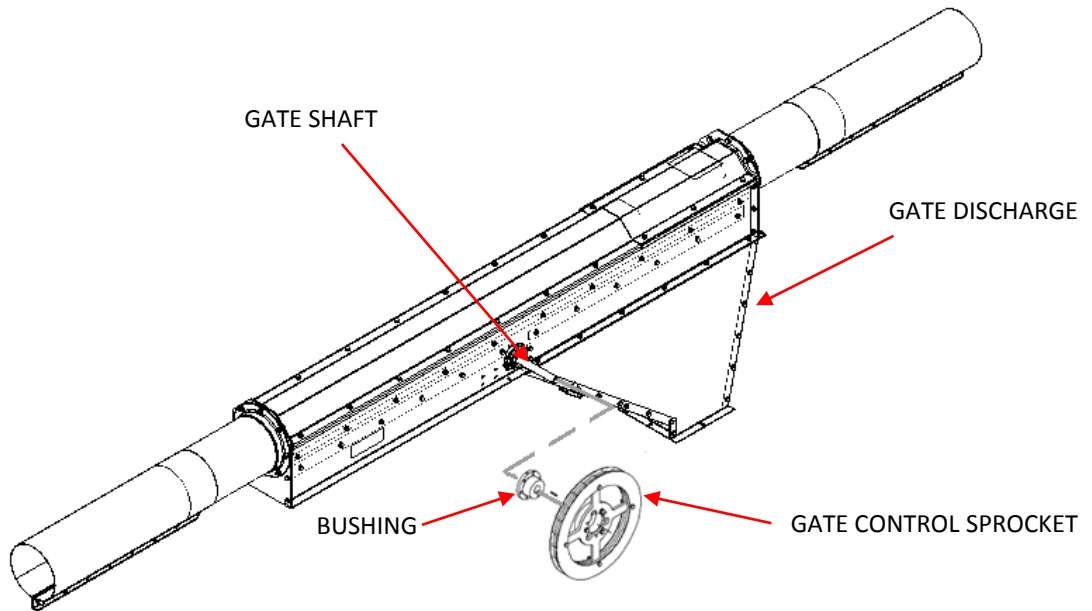
The upper wall bracket and the ground control wall plate were designed to be mounted directly to the grain bin wall. Use the existing hardware from the bin wall to attach the bracket and plate to the bin.

Locate the lower chain mount about 2' to 3' off the ground (or at a height that is easy and convenient in order to reach the chain above the lower chain mount).

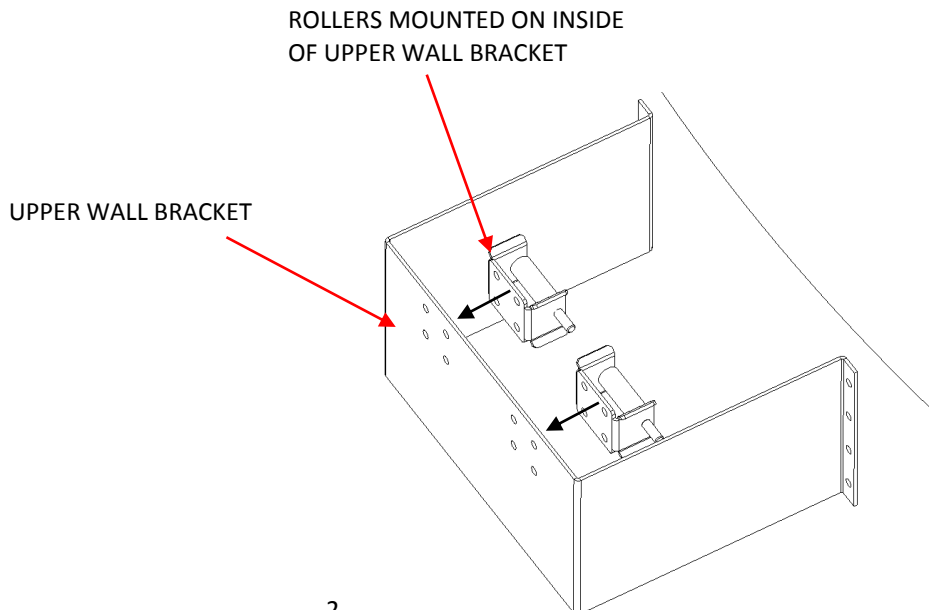
Locate the upper wall bracket (with rollers) at the top of the bin wall so the control chain will clear the eave of the roof.



Install the gate control sprocket onto gate shaft as shown below. Install the bushing onto the shaft using the key and tighten setscrews to secure bushing to shaft. Attach the sprocket to the bushing using the bolts provided with the sprocket.

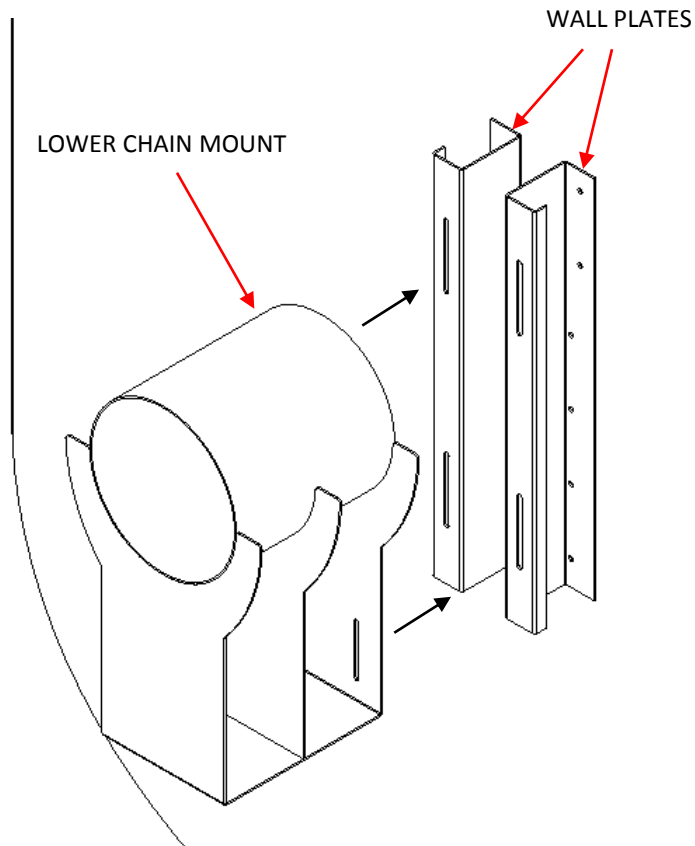


Attach the two rollers to the upper wall bracket using four (4) 3/8" x 1" bolts and nuts for each pulley (See illustration below). Locate the wall bracket and rollers so they are in-line with the discharge gate control sprocket (this will allow the chain to track properly onto the gate control sprocket). Attach the wall bracket to the top of the bin wall in a position that allows the chain to clear the eave of the roof.



Attach each wall plate to the lower chain mount as shown below. Secure each bracket using two 3/8" x 1" bolts and nuts. Slide the chain mount up so the bolts are at the bottom of the chain mount slots, but at the top of the wall plate slots

Determine the location of the lower chain mount and attach the wall plates to the bin wall (use the existing hardware from the bin to mount the wall plates). The bottom of the wall plates should be approximately 2' to 3' off the ground.



Route the control chain through one of the rollers on the wall bracket and up to the discharge gate control sprocket (make sure the chain is positioned around the roller. The chain can be clamped to the wall bracket to keep it from slipping through the bracket and roller while it is being routed up and around the control sprocket.

Leave a good portion of the chain hanging below the roller on the wall bracket. This will be the end of the chain that will be spliced **keep in mind that the splice (splices if more than one chain is used) need to be far enough away so it cannot be pulled onto the control sprocket.**

Route the chain down and behind the remaining roller on the wall bracket and down to the lower chain mount (make sure the chain is engaged with the teeth on the sprocket). Keeping the chain fairly taut, route the end of the chain to the portion of chain left hanging below the wall bracket roller. Connect the two ends of chain together using a chain coupler. **The lower chain mount has adjustment slots to tighten the chain after it has been installed. If you determine that the chain is still too long, even after this adjustment has been made, cut off the excess chain length and then connect the ends together with the threaded coupler.**

Loosen the bolts securing the lower chain mount to the wall plates. Slide the chain mount down to tighten the chain. Retighten the bolts securing the lower chain mount into place.

**Operation Notes:**

The controls should be clearly marked as to which spout they control to prevent accidentally discharging grain into the wrong bin. Controls should be marked to indicate when a spout is open or closed.

