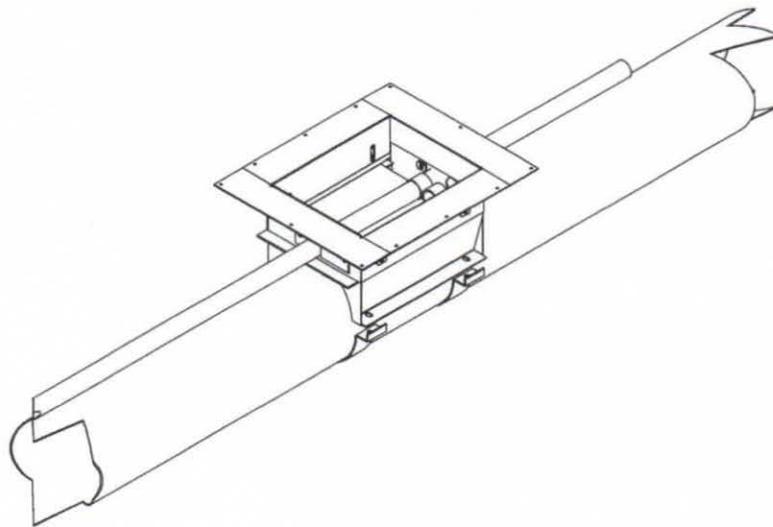




INSTALLATION & OPERATING INSTRUCTIONS



for
Intermediate Well for Concentric Rod
555A-001A for 6" Auger
&
556A-001A for 8" Auger

SHIVERS INCORPORATED
CORYDON, IOWA USA
(641) 872-1005
www.shivers.com

Safety Information

The operator of this machinery must assume the responsibility for his own safety and that of those who are working with him. He must also make sure the equipment was installed properly. Factors that contribute to the overall safety of operation are: proper use, maintenance, and frequent inspection of the equipment. All of these are the operator's responsibility.

If any items covered in this manual are not completely understood, or there is a concern with the safety of the product, contact Shivvers at the address shown on the front cover.

Shivvers is genuinely interested in providing the safest, practical equipment to our customers. If you have a suggestion, which you believe will enhance the safety of this product, please write us and let us know.



TAKE NOTE ANYTIME THIS SAFETY ALERT SYMBOL APPEARS. YOUR SAFETY, AND THAT OF PERSONS AROUND YOU, IS AT STAKE.

The safety alert symbol will be accompanied by one of three signal words whose definitions are given as:

DANGER: Red and white. Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.

WARNING: Orange and black. Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION: Yellow and black. Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

Installation

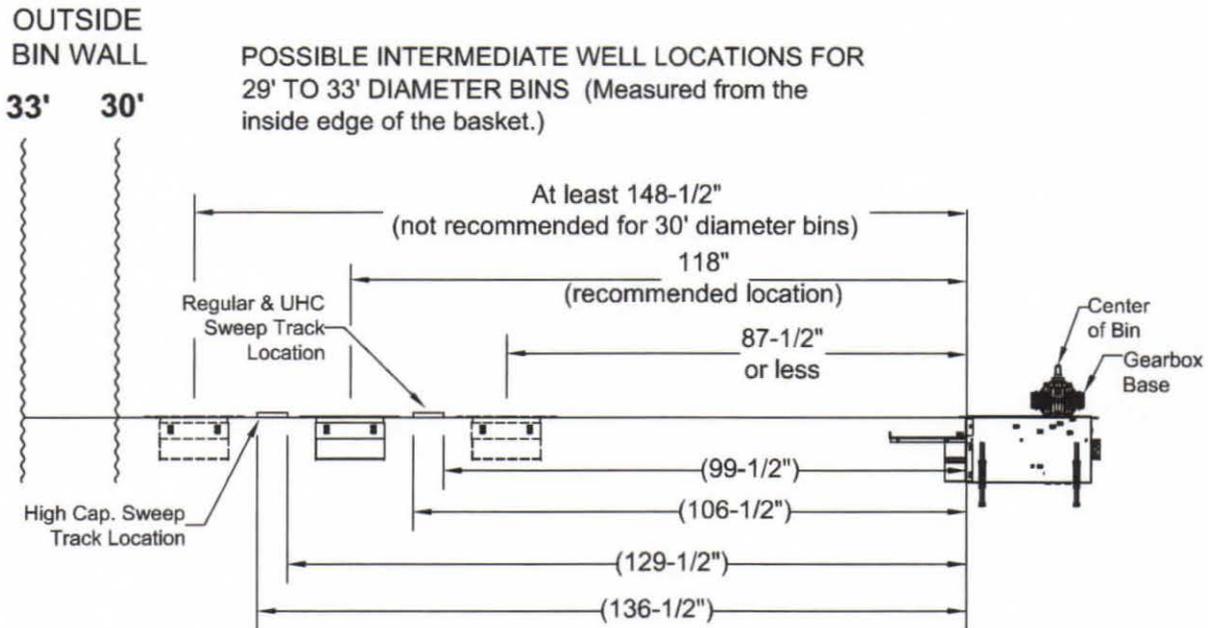
⚠ DANGER

MAKE SURE ALL POWER IS SHUT OFF AND LOCKED-OUT AT THE MAIN POWER SUPPLY BEFORE ENTERING THE DRYING BIN!!

Select a location along the horizontal unloader to install the intermediate well. Make sure the location selected will not interfere with the tapered sweep auger wear track. Also, if the horizontal unloader has hanger bearings, make sure the location selected will not interfere with the hanger bearings.

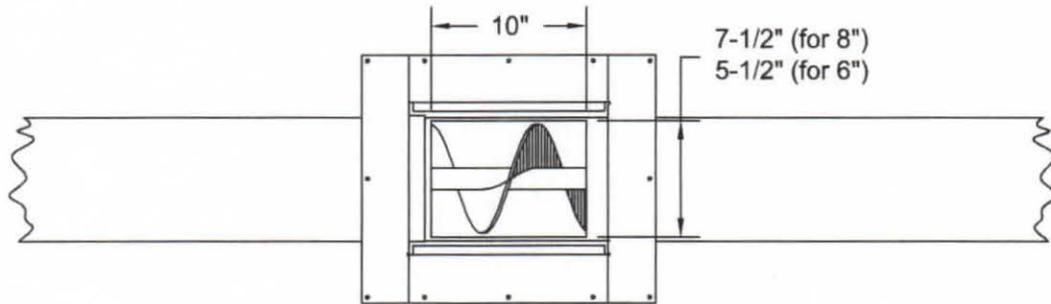
Bins under 29' in diameter use only an outside track, so the center of the well should be placed 36" or more from the outside bin sidewall.

Bins 29' to 33' in diameter use only an inset track. They require the most planning in the intermediate well location. Sweep augers in these bin sizes can have the inset track located at either 9'-7" or 12'-7/8" from the gearbox base. Try to locate the well so it won't interfere with either style of sweep in case the sweep style gets changed in the future. See diagram below.

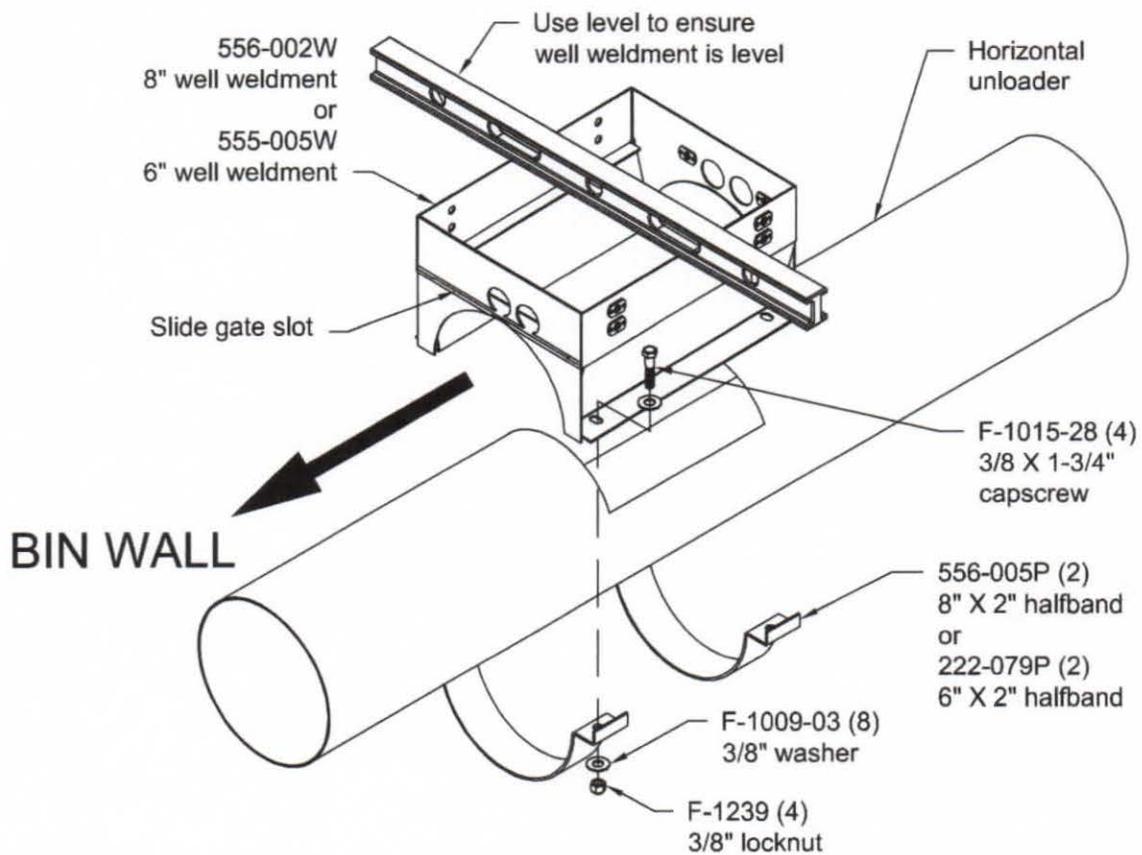


Bins over 34' in diameter use both an outside and an inset track. The inset track on these bins can be located at either 11'-10" or 12'-7/8" from the gearbox base. If the center of the intermediate well is located less than 130" or more than 166" from the center of the bin (160" from the gearbox base) and at least 36" in from the outside bin sidewall, the well shouldn't interfere with the sweep auger wear track. It still needs to be checked for hanger bearing clearance if a hanger bearing auger is used.

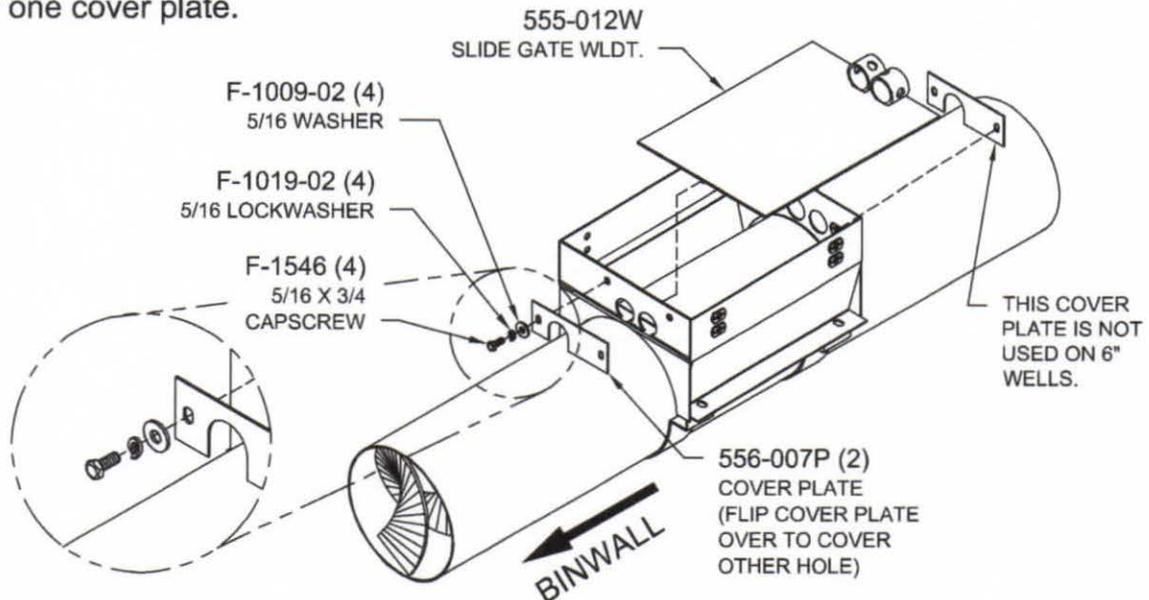
Once the intermediate well location is determined, cut a 10" long by 7-1/2" wide opening in the top if it is an eight inch horizontal unloader. Cut a 10" long by 5-1/2" wide opening in the top if it is a 6 inch horizontal unloader.



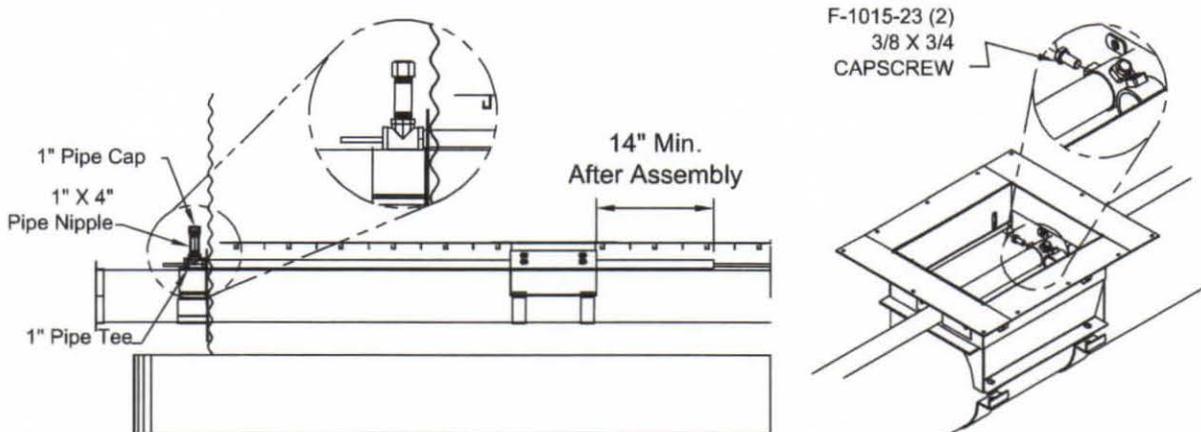
Position the well weldment with the slide gate slot pointing toward the bin wall (away from the gearbox) and attach it to the horizontal unloader as shown. Make sure the well weldment is level and tighten it securely in place.



Insert the slide gate into the well weldment as shown. For a regular horizontal unloader, the center control rod hole of the well weldment is used. If a hanger bearing unloader is used, the offset hole of the well weldment is used (to allow grease zerk access). A six inch horizontal unloader always uses the center hole. Install cover plates over the unused control rod holes for an 8" well. A 6" well uses only one cover plate.



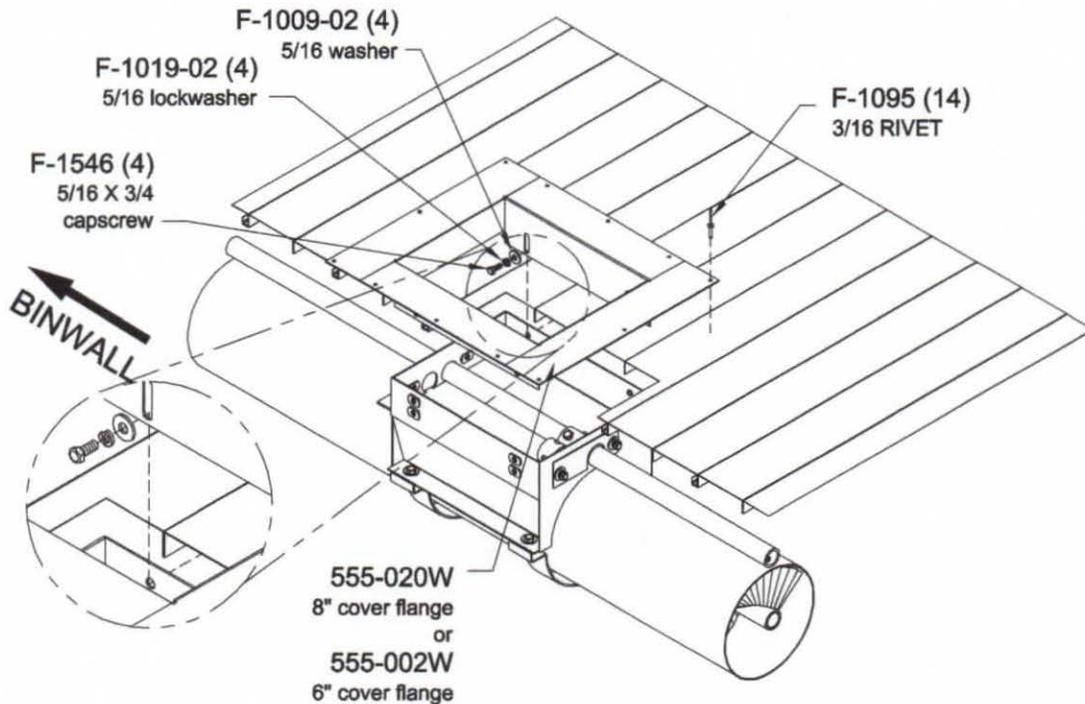
Measure from the bin wall to the back of the intermediate well and add at least 18". This will be the length of 1", schedule 40, pipe needed to make the control rod. It should be threaded on at least one end. To make it easier to open the slide gate, it is recommended to also obtain the following 1" pipe fittings: a tee, a 4" nipple, and a cap. (See note below.) Put the tee, nipple, and cap, onto the control rod pipe then insert the pipe through the faceplate and through the well. Or, if it is easier, slide the pipe through the well, out the faceplate, and then install the tee, nipple and cap. Make sure at least 14" of pipe is sticking past the well weldment (the tee is usually very close to the bin wall). Make sure the slide gate is closed and the nipple is pointing the desired direction, then secure the gate to the pipe as shown. Operate the control rod to insure proper operation.



NOTE: Control Rods (two, 60" Long), 1" pipe tee, 1" coupler, 1" cap and 1" x 3"L pipe nipple available in kit #423-419-001A.

The $\frac{3}{8}$ or $\frac{1}{2}$ control rod for the center basket slide gate can now be installed through the 1" control rod for the intermediate well. Double check operation of both slide gates.

After the floor is installed, place the cover flange into the well (it may be necessary to trim the cover flange around the control rod to let it go all the way down). Install hardware as shown, but don't tighten yet. Rivet the cover flange to the floor, then tighten the bolts.



OPERATION

! DANGER

MAKE SURE ALL POWER IS SHUT OFF AND LOCKED-OUT AT THE MAIN POWER SUPPLY BEFORE ENTERING THE DRYING BIN!!

Always unload from the center well ($\frac{3}{8}$ " or $\frac{1}{2}$ " pipe control rod) until center of bin is completely drained, then open the intermediate well slide gate (1" pipe control rod). This will help eliminate damage to the grain bin and drying equipment caused by uneven pressure of flowing grain.