

7' BULK FEED BIN

MODEL 507 Installation Manual



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VAL PRODUCTS, INC. WARRANTIES

For Warranty claims information, please see the "Manufactured Products Standard Warranty" form QMS101 available from Val Products, Inc. by:

- Phone: 1-800-998-2526
- Email: marcom@val-co.com
- Online: http://val-co.it/warranty

Conditions and Limitations:

- Products and Systems involved in a warranty claim under the "Manufactured Products Standard Warranty" shall have been properly installed, maintained and operated under competent supervision, according to the instructions provided by Val Products, Inc.
- Malfunction or failure resulting from misuse, abuse, negligence, alteration, accident or lack of proper installation or maintenance shall not be considered a defect under the Warranty.

Introduction

This manual covers the assembly instructions for the 7' Feed Bin with parts lists. Bin accessories and options have been added at the back of this manual for your convenience.

Features

- Weather tight die formed roof.
- Reinforced ribs at the seams for added strength and ease of assembly.
- Warp resistant top lid closes tight to keep out moisture and offers smooth operating openers.
- Bin bolts have a built in weather seal.
- Drip edge keeps water away from the taper hopper and unloading boot.
- Taper Hoppers are offset to allow smooth feed flow.
- Bin sheets are made of heavy gauge G-90 galvanized steel with 2-2/3" wide by 1/2" deep corrugation.
- Legs are die formed with a sturdy bracing system for structural support.
- High strength bolts are used throughout.

Site Selection

The success of assembling your new bulk bin begins with the ground you start on and the foundation you lay. The selected site must be firm, level ground with good water drainage and a soil bearing capacity of 3500 lbs. per sq. ft. Check with your local soil engineer if you have any questions. When you have determined that the soil is acceptable, you should also consider the following factors: accessibility of feed handling equipment, space for future growth and the absence of overhead obstructions such as power lines or tree branches.

General Information

- Read all safety information, instructions and illustrations before starting to assemble your new bulk bin.
- Please review the complete assembly manual twice before starting and be sure to check your shipment with the packing list for any shortages. Please report shortages promptly.
- Metric measurements are shown in millimeters and in parenthesis throughout the manual. Example: 13" (330mm)
- The terms horizontal and vertical refer to the bin in a standing position.
- Instructions for optional bin accessories are packaged with the components.
- To help decide which is the top and bottom of corrugated hoppers, a hole spacing of 3.125" (79mm) is used at the top of all extension hoppers and at the bottom of all main hoppers.
- Vertical seams must be staggered on all hopper rings. Except on 9' x 5 or 6 ring bins, align leg holes on bottom two main hopper rings to accommodate longer legs.
- Taper hopper vertical seams and boot collar seam use truss head bin bolts with the head always on the inside of the bin to allow for better feed flow.
- Corrugated hoppers and roof deck seams use hex head bin bolts with the head to the outside except to fasten legs to corrugation where the bolt head goes to the inside.
- Tighten all bin bolts from the nut side to help reduce the possibility of damaging the rubber seal on bin bolts. Do not allow the bolt heads to spin when tightening.
- When assembling corrugation sheets, use a drift pin to help align holes and always overlap sheets in the same direction. Finger tighten nuts until the next ring is assembled.
- Remove protective paper from decal before raising bin. Paper may be difficult to remove if exposed to warm sunlight for several hours.

Symbols

Our concern is for your safety. The safety warnings are included in this manual as a guide to help and encourage the safe operation of your equipment. It is your responsibility to evaluate the hazards of each operation and implement the safest method of protecting yourself as owner and/or operator.



= NOTICE - Important information. Be sure to read.



= WARNING - The safety alert symbol is used on warning signs that describe the importance of a feature or explain a step that one should pay close attention to avoid problems or personal injury.



Hazardous situation, if not avoided, will result in serious injury or death.



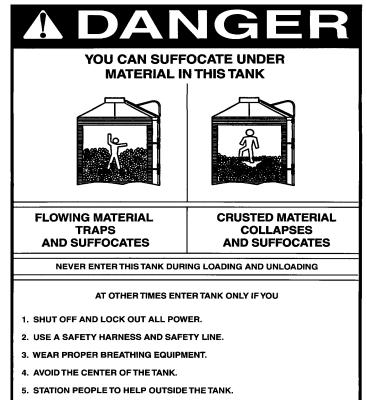
Hazardous situation, if not avoided, could result in serious injury or death.



Hazardous situation, if not avoided, could result in minor or moderate injury.

- Avoid any alterations to the equipment. Such alterations may produce a very dangerous situation where serious injury or death may occur.
- Keep all safety guards on equipment
- Ground all electrical equipment. Do not bypass electrical safety equipment. Make sure electrical equipment is properly installed and grounded by a qualified electrician.
- Wear a hard hat during construction
- Order and attach warning symbols to danger areas that are not already noted.
- Do not enter bin during operation or at any time without proper safety precautions.

This Label MUST be present on the inside of the roof lid. Contact your distributor for a free replacement if missing.



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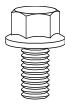
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7' Feed Bin Hardware Parts

NOTE: Check all parts with each packing list included with each carton of product or the parts list included in this manual before starting assembly. Report any shortages immediately to your supplier.

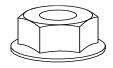
Save all cartons until bin is completed.

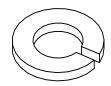
Hardware List











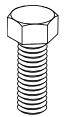
501442 - 5/16" x 1" Flanged Hex Bin Bolt

501440 - 5/16" x 3/4" Truss Bin Bolt

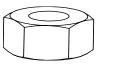
010603 - 5/16 Hex Nut

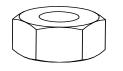
501441 - 5/16" Flange Nut

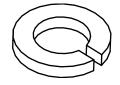
010253 - 3/8" Lockwasher











010664 - 3/8" X 1" Hex Bolt

012240 - 7/16" x 1" Hex Bolt

011115 - 3/8" Hex Nut

011116 - 7/16" Hex Nut

010254 - 7/16" Lockwasher

Tools Required

Below is a list of tools required to assemble your new bin. The use of an electric or air impact wrench will greatly reduce your assembly time.

- Open or Box End Wrenches (1/2", 9/16", 5/8", 11/16")
- Socket Set with Speed Wrench or Impact
- Hammer or Rubber Mallet
- Large Screwdriver
- 12" Drift Punches
- Nail Apron for convenience



Be careful when using power equipment not to over-torque fasteners.

7' (2.13 m) Feed Bin Specifications

	7 FT - 40 Deg Roof Bin Capacity and Fill Height									
	Feed Capacity					Fill Height				
Bin	Tons	Mtrc Ton	cu. Ft.	cu. m.	Bushels	Inches	Ft	In	Meters	
7′ x 1R	4.82	4.37	241.0	6.82	194	175	14	7	4.45	
7′ x 2R	6.87	6.23	343.5	9.73	276	207	17	3	5.26	
7′ x 3R	8.92	8.09	446.1	12.63	358	239	19	11	6.07	
7′ x 4R	10.97	9.95	548.7	15.54	441	271	22	7	6.88	
7′ x 5R	13.02	11.82	651.2	18.44	523	303	25	3	7.70	
7′ x 6R	15.08	13.68	753.8	21.34	606	335	27	11	8.51	

• All 16" opening bins include VAL-CO[°] 's exclusive 2-piece boot collar.

• Ladder safety cages are available.

• All bins are designed for the storage of FREE-FLOWING materials only.



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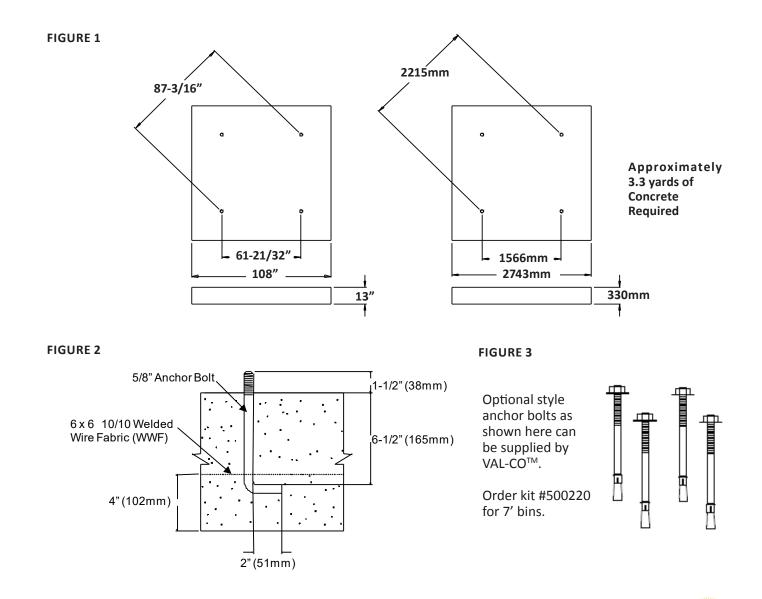
Soybean Meal, meat scraps and certain other materials are NOT considered FREE-FLOWING and should NOT be stored in these bins.



Foundation and Anchoring Specifications

NOTE: To avoid cable hanging over edge of slab, place a PVC tube thru slab before pouring to drive ground rod thru.

After selecting the best site for your new bin and making sure the soil has the required 3500 pounds per square foot (psf), you are now ready to begin your foundation. It is extremely important that your bin has a firm and level foundation. The concrete used for this must have a minimum compression rate of 3000 lbs.. per square inch at 28 days. The pad must be smooth and meet the dimensions listed below. It is imperative that it is poured both square and level. When laying out the bolt locations, it is very important the bin maintains squareness. Be sure to check all (3) diagonal measurements and hold the same distance between holes *as shown below in Figure 1*. The "L" shaped anchor bolt *shown in Figure 2 below* can be purchased from local retailers. When using the optional anchor bolts, *shown in Figure 3 below*, holes can be drilled after concrete has set. However; you must use the same dimensions as shown below to assure the bin maintains squareness. Note: Locating anchor bolt holes by using the assembled bin legs does not assure the bin will be set squarely and can result in damage to equipment and/or personal injury.

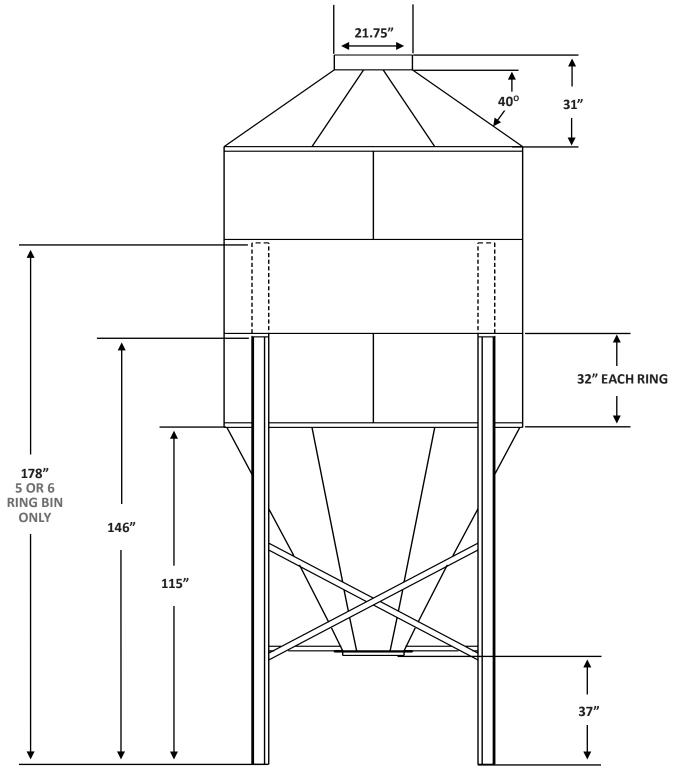


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7' Diameter Bin Dimensions



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CORRUGATED HOPPER SHEETS

FIGURE 5

1 RING BIN

507046 18ga Main - (1) 507047 18ga Main w/Decal - (1)

2 RING BIN

507046 18ga Main - (2) 507007 20ga Extension - (1) 507008 20ga Ext. w/Decal - (1)

3 RING BIN 507046 18ga Main - (2) 507007 20ga Extension - (3) 507008 20ga Ext. w/Decal - (1)

4 RING BIN

507046 18ga Main - (2) 507007 20ga Extension - (5) 507008 20ga Ext. w/Decal - (1)

5 RING BIN

507046 18ga Main - (2) 507016 18ga Main Ext. - (2) 507007 20ga Extension - (5) 507008 20ga Ext. w/Decal - (1)

6 RING BIN

507046 18ga Main - (2) 507016 18ga Main Ext. - (2) 507007 20ga Extension - (7) 507008 20ga Ext. w/Decal - (1)

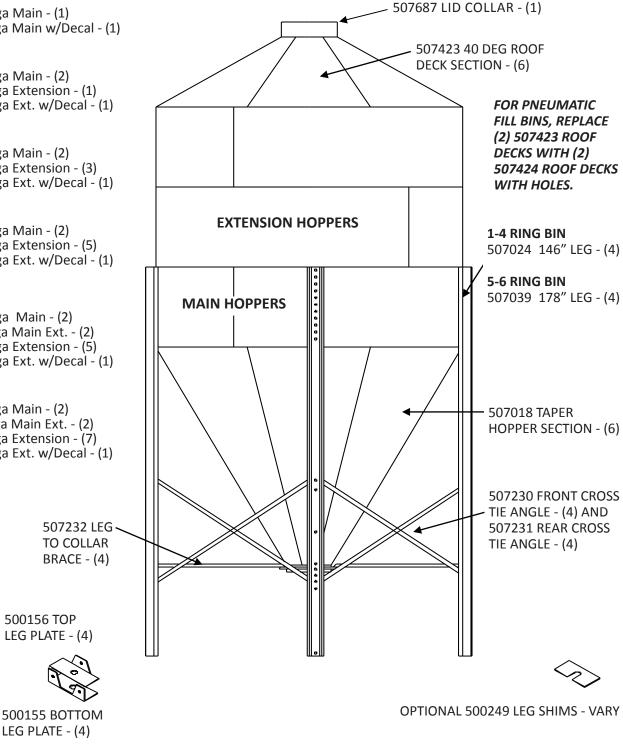




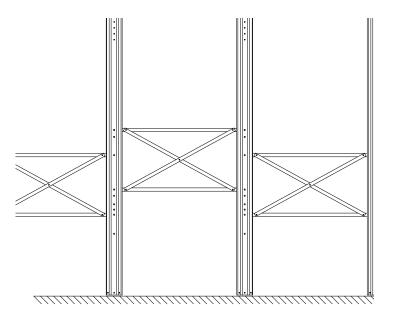
FIGURE 6

Bracing for 7' x 5 or 6 ring Bins:

- (8) 507033 "X" Brace Angle
- (8) 507032 Tie Brace Angle

X

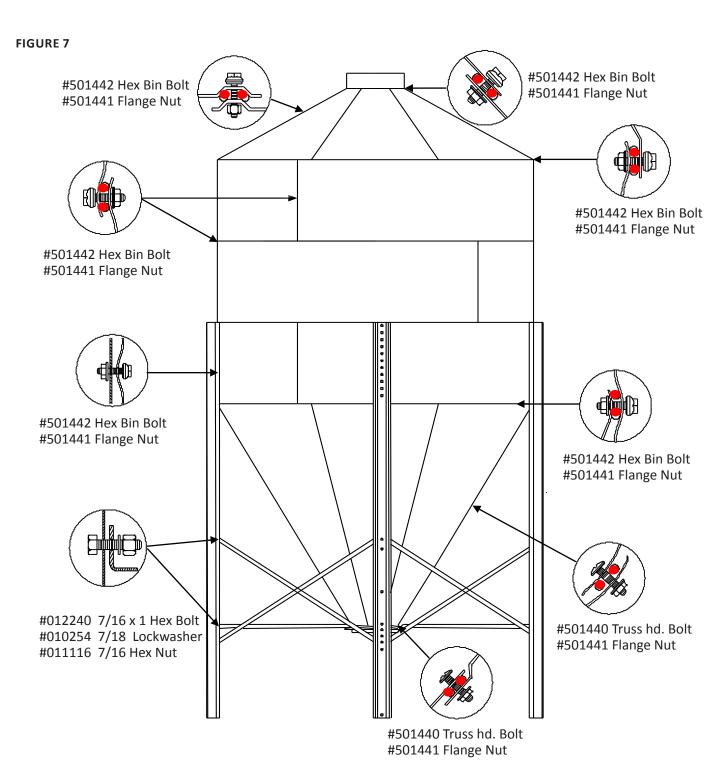
(1) 509167 Special Brace Hardware Bag



Use 7/16" x 1" hex bolts, nuts and lockwashers in 507161 hardware bag from 507160 Basic hardware carton to fasten cross braces to legs. Use 5/16 x 1" hex bin bolts and nuts in this bag to attach "X" braces to cross braces.

Hardware Assembly Summary

This illustration shows the type of fasteners, placement and position of caulking. This illustration can be used as a quick reference when assembling your bin. Refer to the step-by-step instructions for complete assembly details.



= Caulking Bead (IT IS RECOMMENDED THAT YOU USE THE CAULKING PROCEDURE ON THE NEXT PAGE.)

Corrugated Hopper Assembly / Caulking Instructions

Begin by determining assembly method. VAL-CO[®] bins may be assembled either horizontally or vertically. **VERTICAL** assembly for 7 Ft bins can be accomplished using the **VAL-CO[®] Bin Lifting Kit #500578** as described in the Bin Lifting Kit Assembly Section. Processes are basically the same in both methods of assembly. (Vertical assembly is recommended for 12 ft bins.)

- Identify the 2 heaviest corrugated hopper sheets by either the ID tag, the gauge (the higher the gauge number, the lighter the steel. *Example: 20 ga. is lighter than 18 ga.*), or by the extra row of vertical holes and the bottom row of holes being spaced 3 1/8" apart as shown in Figure 8 to the right.
- 2. Apply the caulking putty to the inside of the hopper sheets, (where they join and form a seam), along side the holes to form a tight seal *as shown in Figure 9 to the right*.
- 3. Place the caulked end over the un-caulked end of each adjacent hopper sheet. (As the RED arrows show in the drawing at the top right of this page.)

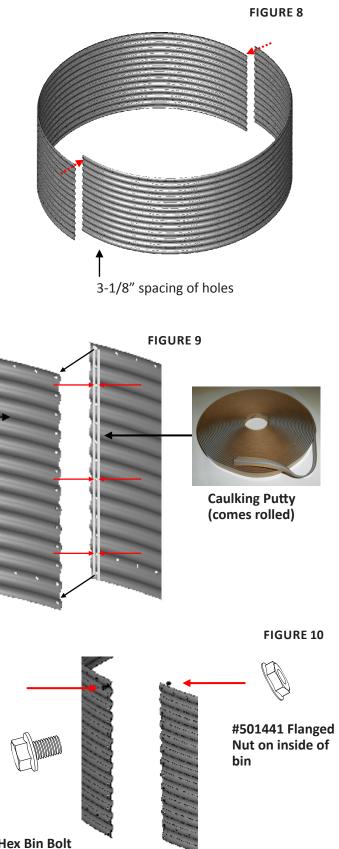
Be sure caulking forms a good seal around the holes and seam to prevent leaking.

Assemble ends with #501442 bin bolts and #501441
 Flange Nuts. Continue inserting Bin Bolts and
 Flanged Nuts to all the holes along the vertical seam as you assemble the ring, then tighten.

NOTE: Do not tighten until all (2) sheets of ring are assembled.

- Make sure you have aligned the corner hole where the (2) hopper sheets meet **first** for easiest assembly.
- *Remember to complete entire ring before tightening nuts.*
- Make sure you tighten all Bin Bolts from the Flange Nut side. Using the Bin Holt head to tighten bolts can damage the rubber seal and may lead to possible leaking.

#501442 Hex Bin Bolt (Flanged) on outside of bin

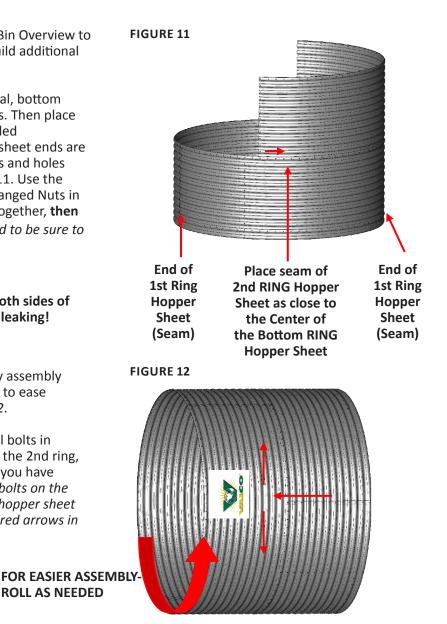


Corrugated Hopper Assembly / Caulking Instructions - continued

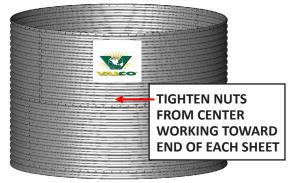
- Refer to parts list detailed in the 7' Feed Bin Overview to determine the next sheets required to build additional rings.
- 6. Place 2 rows of caulk around the horizontal, bottom holes inside of the 2nd ring hopper sheets. Then place (1) 2nd ring hopper on top of the assembled 1st ring making sure the 2nd ring hopper sheet ends are at the center of the 1st ring hopper sheets and holes align, as illustrated to the right in Figure 11. Use the #501442 Hex Bin Bolt and the #501441 Flanged Nuts in each hole to attach the panels and rings together, then tighten. On 5 and 6 ring bins you will need to be sure to align leg holes with bottom ring leg holes.

NOTE: Be sure to caulk all seams along both sides of the holes to form a good seal to prevent leaking!

- 7. After completing the 2nd ring you may lay assembly on its side so hoppers can be rolled easily to ease remaining assembly *as shown in Figure 12*.
- 8. Continue the same process of installing all bolts in panels and all bolts connecting the 3rd to the 2nd ring, **then tighten.** Continue this process until you have completed all the rings. *Note: Install the bolts on the horizontal seams by starting in center of hopper sheet and working toward ends as shown with red arrows in Figure 12.*



- Make sure you have aligned the corner hole where the (2) hopper sheets meet first for easiest assembly.
- Remember to complete the assembly of ALL rings before tightening nuts.



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FIGURE 13

When all hopper sheets are assembled you should have the heaviest corrugation on the bottom and the decaled sheet on top.

Taper Hopper and Collar Assembly

NOTE: Before assembling taper hopper sections to corrugated hoppers you must apply the caulking as previously instructed, **to assure a watertight seal.**

- Begin caulking around the inside of the bottom row of holes on the bottom ring of corrugated hopper sheets.
- 2. Caulk taper hopper sheets along the vertical side with the bend towards the inside. *Caulk all taper hoppers on same side and apply to both sides of holes.*
- Align 1st (first) taper hopper sheet/panel section with one set of leg holes and assemble to inside of corrugated hoppers using #501442 hex bin bolts and #501441 flange nuts, DO NOT TIGHTEN.

NOTE: *Keep bolt heads on outside of assembly.* Leave holes that align with leg holes open until assembling legs to bin.

4. Place 2nd taper hopper sheet/panel over 1st hopper sheet/panel and 1st ring (and reinforcement angle if used), align holes with drift pins, install bolts *as* shown in Figure 14, DO NOT TIGHTEN.

NOTE: *Reinforcing angles are not used on* 1 or 2 ring bins.

- Install bolts to connect 3rd hopper sheet/panel to the 1st ring and 2nd hopper sheet/panel (and reinforcement angel if used), DO NOT TIGHTEN. Continue until all hopper sheet/panels have been asssembled.
- Caulk #507011 top collar on both sides of holes on out side of top flange. Place inside the end/bottom of the assembled hoppers. Align holes in collar so every other hole is aligned with a row of leg holes in corrugated hoppers. Tighten all bolts in tapper hopper panels and collar at this time.
- 7. Finish assembling the final (2) sections and top collar. Tighten all hardware. Caulk #500260 Bottom Collar around opening on top side of collar. Assemble to #507011 Top Collar with (6) #012240 7/16" x 1" Hex Bolts, #010254 Lockwashers and #011116 Nuts using the six holes that do not align with legs.

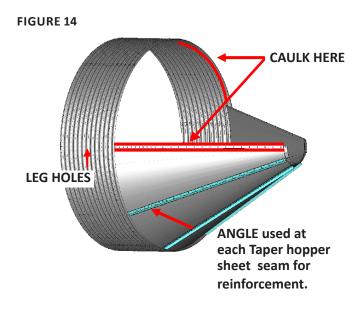


FIGURE 15

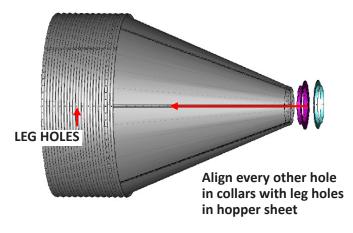
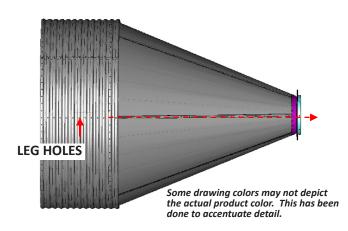
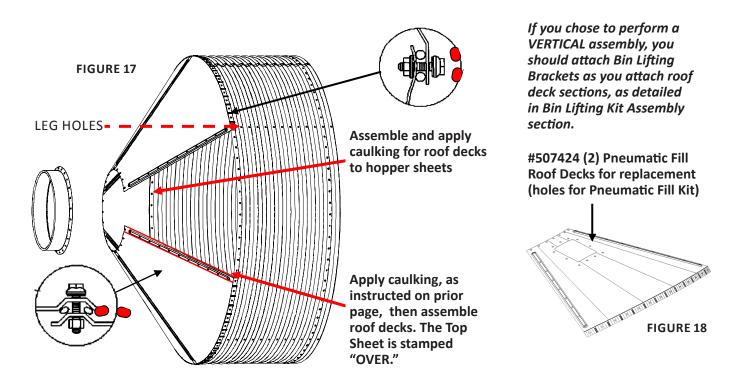


FIGURE 16





Roof Deck and Lid Collar Assembly



NOTE: Before assembling roof deck you must decide where the lid opener and ladder will be located. In addition; when installing PNEUMATIC FILL BINS you must decide on the Roof Deck replacement location.

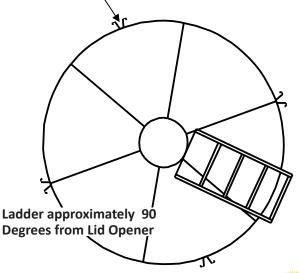
- After deciding on proper layout, you need to begin caulking roof decks along both sides of bottom holes and holes along side marked "OVER".
- Install bolts to connect roof decks over the top of corrugated hoppers starting with one end aligned with lid opener leg. *Refer to drawings*. Use 5/16" Hex Bin Bolts and Flange Nuts. Continue until all roof decks ar as sembled to hopper. *Keep bolt heads to the outside and DO NOT TIGHTEN*.
- 3. Double caulk around holes on bottom of #507687 Lid Collar and position on roof decks. *Refer to drawing above in Figure 17.*
- 4. TIGHTEN all hardware on collar and roof decks.
 - Overlap sections as marked "over" or "under".
 - LID COLLAR IS ASSEMBLED TO TAPPER HOPPER PANELS.
 - REPLACE (2) #507423 Roof Decks with (2) #507424 Roof Decks with holes (shown above in Figure 18.) when installing PNEUMATIC FILL BINS. Position Roof Decks across from each other. Refer to the Pneumatic Fill Quick Sheet more detailed Instruction.

The drawing below shows the recommended layout for locating the lid opener and ladder.

- Ladders should be located approximately 90 degrees from lid opener.
- Way-Back Opener does not need to align with leg.

FIGURE 19

Lid Opener Leg (Tru-Lok Add-On Option)



Leg and Tank Assembly

After you have finished assembling the tank, it is time to attach the bin legs.

- To assemble legs you will need someone inside the bin to push bolts thru holes.
- While someone is still in the bin, you can assemble the ladder brackets as described on the following pages to eliminate having to reenter the bin later.
- The #507024 146" bin leg attaches to the (12) leg holes in the bottom ring as shown in Figure 20 to right. The #507039 178" bin leg will require the bottom two rings or (24) holes.
- 2. Align holes with Drift Pin from outside bin. Hand tighten #501442 Bin Bolts and #501441 Flange Nuts on all holes. *Refer to Figure 20.*
- 3. Roll the bin to assemble each leg until all the legs are complete. *Tighten all nuts secure.*
- 4. Before person exits bin, have them check for missing bolts by darkening bin and looking for light thru open holes.
- After legs are secure, you can now assemble top and bottom Leg Base Plates to each leg. Use (3) #010664 3/8 x 1 Hex Bolts, (3) #010253 3/8" Lockwashers and (3) #011115 3/8" Nuts per leg. *Refer to Figure 22 and* 23 below. Tighten nuts.

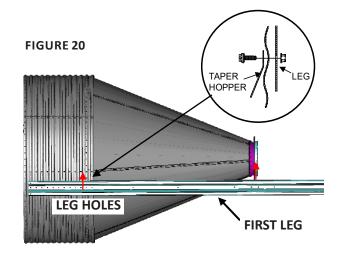
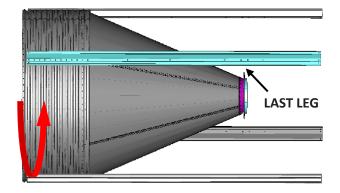
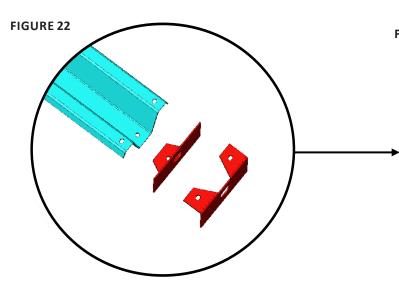
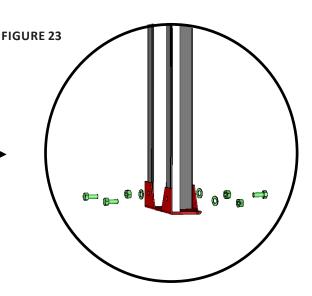


FIGURE 21

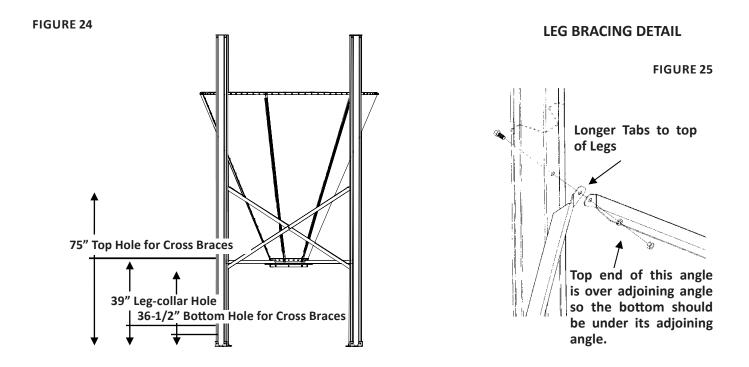






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Leg and Brace Assembly



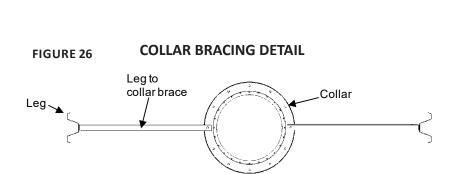
- 1. Assemble #507230 Front Cross Angle and #507231 Rear Cross Angle together in center with #012240 7/16" x 1" Hex Bolt, #010254 7/16"Lock-washer and #011116 Nut *as shown in Figure 24 above*.
- 2. Position between pair of legs using holes as shown in Figure 25 and fasten with same 7/16" hardware as above. Ends of angles with longer tabs go to the top of the legs. Alternate positioning of ends is recommended for best fit.

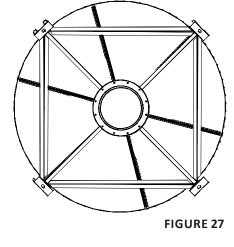
EXAMPLE: If top end of angle is over adjoining angle then bottom end of that angle should be under the adjoining angle) Repeat assembly until all cross braces are assembled. Do not tighten nuts until all bracing is finished.

 Fasten #507232 Leg-Collar Brace between each leg and the top of collar with the same 7/16" hardware as rest of bracing. Use leg hole shown above and aligning hole in collar to assemble braces. Brace must point to opposite leg or bin component failure may result.

4. Tighten all hardware secure when bracing is completed.

BOTTOM VIEW WITH BRACING on 7 ft Bin





Roof Ladder Assembly

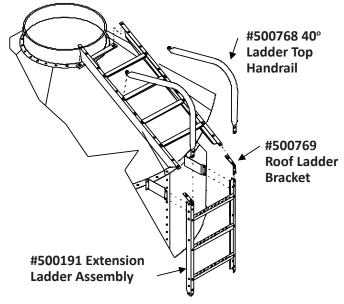
NOTE: Before assembling the roof deck sections and lid collar make sure you have determined where the roof ladder should be located.

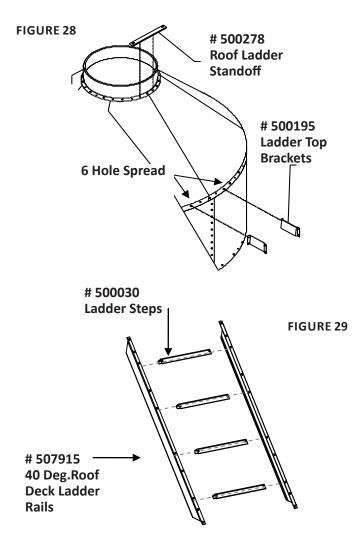
 Remove the (2) bolts in lid collar that align with the holes in the #500278 Roof Ladder Standoff and assemble Standoff to lid collar with the same hardware.

NOTE: The following part of this assembly requires someone inside bin and can be done previously at the same time you are assembling the legs.

- 2. Now find the (2) holes in the roof deck and hopper seam that align with the outside holes of the Ladder Standoff, (6 hole spread) as shown in Figure 28.
- 3. Remove the existing hardware and fasten (2) #500195 Top Ladder Brackets to bin with the same hardware, using the top hole in each bracket *as shown in Figure 28*.
- 4. Assemble (2) #507915 Roof Deck Ladder Rails and
 (4) #500030 Ladder Steps with #010643 5/16" X 3/4" Bolts and #012789 Locknuts. *Keep locknuts to inside of rails. Refer to Figure 29 to right,* to determine proper spacing for rails.







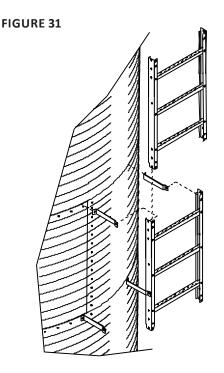
- After Roof Ladder is assembled, fasten to Roof Standoff with (2) #010643 5/16" x 3/4" Hex Bolts and #012789 Locknuts. Get (1) #500191 Ladder Extension Assembly and fasten #500769 Roof Ladder Bracket to inside of top end of both rails and #500768 Handrail to outside of rails using same hardware as above.
- 6. Position ladder rails (either the Extension Ladder Assembly or the Basic Ladder Assembly rails) over top brackets and slide open end of Roof Ladder Brackets under roof ladder. Align the (2) holes in Top Brackets and Roof Ladder Brackets with the ladders and loosely assemble parts with hardware above. Assemble the top end of the (2) #500768 handrails with same hardware and tighten all nuts secure. All nuts should be to inside of ladders.

Side Ladder Assembly

In each corrugated hopper sheet seam you must attach (2) #500031 Ladder Brackets in alignment with the top brackets assembled previously.

NOTE: This part of assembly requires someone inside the bin and can/could be done previously at same time you are assembling legs.

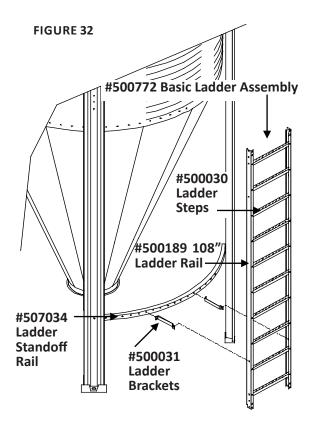
- 1. Remove the bin hardware in each hole that aligns with the top brackets and assemble (2) #500031 Ladder Brackets per hopper ring using the same hardware just removed.
- Slip next Extension Ladder Assembly inside bottom of previous ladder and assemble to each other and adjacent Ladder Brackets with (4) #010643 5/16" x 3/4" Hex bolts and #012789 Locknuts.
 Repeat until all ladder extensions are assembled.



After all extension ladders are assembled -

- 3. Take #507034 Ladder Standoff Rail and assemble between legs below ladders using the bottom hole of each leg (approximately 21" from bottom of leg) and #501442 Bin Bolts and Flange Nuts.
- 4. Align (2) #500031 Ladder Brackets with Ladder Brackets above and fasten to Standoff Rail with #010643 Bolts and #012789 Locknuts.
- Slide #500772 Basic Ladder Assembly under bottom rails of Extension Ladder and assemble to Extension Ladder and both Ladder Brackets on Standoff Rail using #010643 Bolts and #012789 Locknuts.
 After ladder is assembled tighten all locknuts.

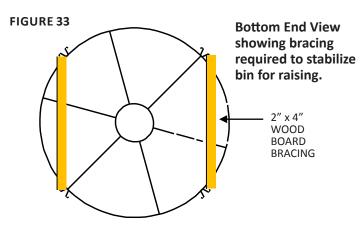
NOTE: Make sure all locknuts are tightened securely before proceeding to next step. Do not over-torque locknuts.



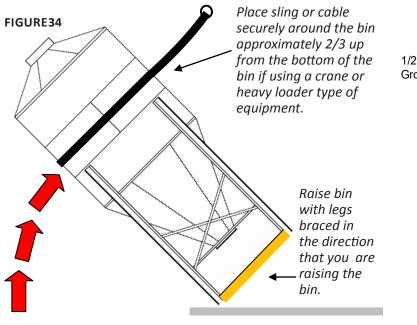
Erecting the Bin

Before erecting your new bin be sure all parts are assembled properly and hardware tightened securely.

- 1. Peel protective paper off "VAL-CO[™]" decal before raising bin.
- 2. Cut 2" x 4" braces to 59-7/8" long and fasten between legs as shown below in Figure 33 Bottom End View.
- 3. Place 2" x 4" bracing between legs, *as shown below in Figure 33*, to provide extra support.
- 4. Raise the bin as shown in Figure 34 below. Be sure to use appropriate heavy equipment.
 - Be sure to use proper strength heavy equipment such as; crane, truck with hydraulic lift bed or other.
 - Level the legs, to assure stability, after the bin is raised.
 - Leg shims #500249 are available.



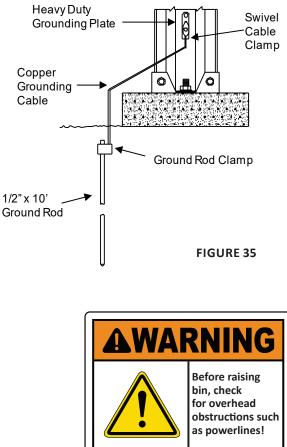
Raising the Bin - Using Sling/Cable Method Val-Co recommended Bin Lifting Kit method is on next page.



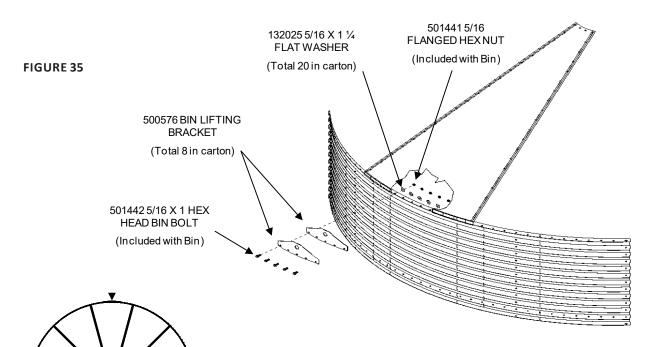


All bins should have (2) ground connections placed at equal distances around bin. Refer to the drawing for proper grounding. Parts can be purchased at local electrical retailers. **Be sure bin is grounded according to the National Electrical Code.**

Bin Grounding Instructions

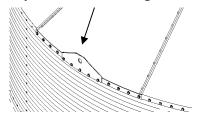


Bin Lifting Kit Assembly



Use existing bin bolts along with included flat washers to fasten the [2] plates every 90 degrees around the top of the bin.

Fully attached Bin Lifting Bracket



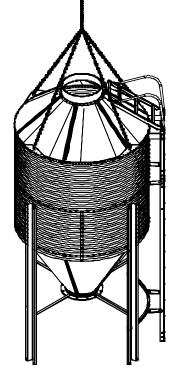
Raising the Bin - Using Bin Lifting Kit method Used ONLY in verticle assembly

When using the Bin Lifting Kit method, attach a chain to each bracket. Bring the 4 chains together and attach to a single chain/cable using the proper heavy equipment to lift.

NOTE: Be sure chains are SECURE before lifting!



FIGURE 36

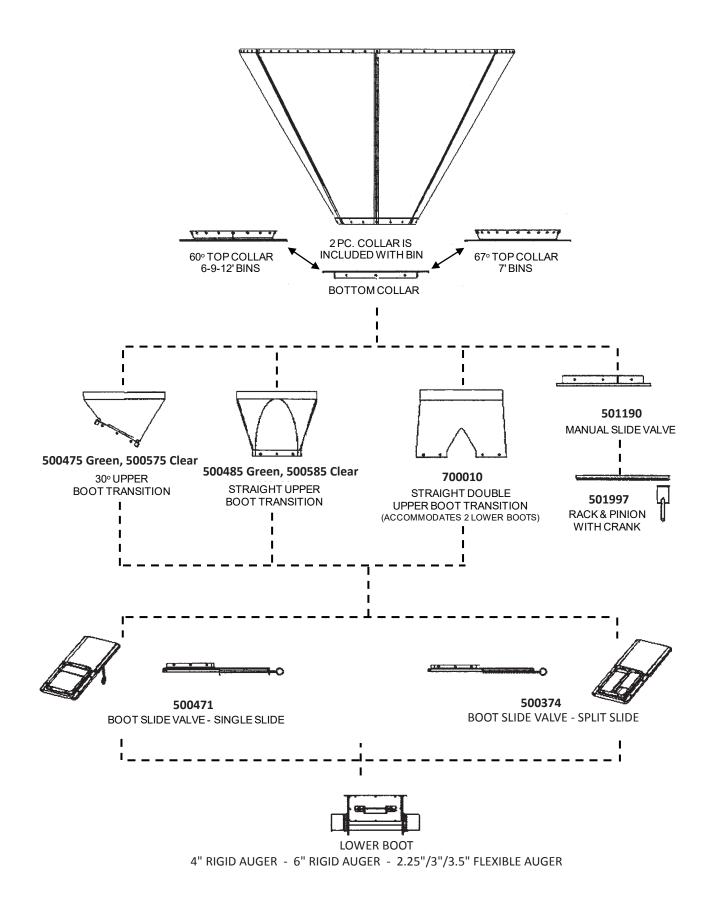


BIN SIZE & OPENING				7' - 16" OPENING 7' - 16" OPENING										
OPENER TYPE				WAY-BACK OPENER				PNEUMATIC FILL ROOF					:	
NUMBER OF RINGS				2	3	4	5	6	1	2	3	4	5	6
		ORDER NUMBER	507W41	507W42	507W43	507W44	507W45	507W46	507741	507742	507743	507744	507745	507746
PAI	RT #	DESCRIPTION			QUA	ΝΤΙΤΥ					QUA	ΝΤΙΤΥ		
500	0650	Way-Back Lid Carton	1	1	1	1	1	1	0	0	0	0	0	0
500	0790	40° Pneumatic Fill Kit Lid Carton	0	0	0	0	0	0	1	1	1	1	1	1
507	7007	20 ga. Extension Hopper - Plain	0	1	3	5	5	7	0	1	3	5	5	7
507	7008	20 ga. Extension Hopper - Decal	0	1	1	1	1	1	0	1	1	1	1	1
507	7016	18 ga. Main Hopper - Plain	0	0	0	0	2	2	0	0	0	0	2	2
507	7018	Taper Hopper Section	6	6	6	6	6	6	6	6	6	6	6	6
507	7024	Galvanized Leg - 146" (1-4R)	4	4	4	4	0	0	4	4	4	4	0	0
507	7032	Brace Tie	0	0	0	0	8	8	0	0	0	0	8	8
507	7033	"X" Brace	0	0	0	0	8	8	0	0	0	0	8	8
507	7039	Galvanized Leg - 178" (5-6R)	0	0	0	0	4	4	0	0	0	0	4	4
507	7046	18 ga. Main Hopper - Plain With Drip Edge	1	2	2	2	2	2	1	2	2	2	2	2
507	7047	18 ga. Main Hopper - Decal With Drip Edge	1	0	0	0	0	0	1	0	0	0	0	0
507	7049	Taper Hopper Reinforcement Angle	0	0	6	6	6	6	0	0	6	6	6	6
507	507072 Extension Hardware Carton		0	1	2	3	4	5	0	1	2	3	4	5
507160		Basic Hardware Carton		1	1	1	1	1	1	1	1	1	1	1
507171		507171 Collar Carton		1	1	1	1	1	1	1	1	1	1	1
507	7230	230 Front Cross Tie Brace Angle		4	4	4	0	0	4	4	4	4	0	0
507	7231	Rear Cross Tie Brace Angle	4	4	4	4	0	0	4	4	4	4	0	0
507	7232	Leg-Collar Brace Angle	4	4	4	4	4	4	4	4	4	4	4	4
507	7423	Roof Deck Section 40°	6	6	6	6	6	6	4	4	4	4	4	4
507	7424	Roof Deck Section 40° - Pneumatic Fill	0	0	0	0	0	0	2	2	2	2	2	2
509	9163	178" Leg Hardware Carton	0	0	0	0	1	1	0	0	0	0	1	1
509	9167	Special Bracing Hardware Bag	0	0	0	0	1	1	0	0	0	0	1	1
⇒z	500226	Tru-Lok Basic Tube	1	1	1	1	1	1	Х	Х	Х	Х	Х	х
OPTIONAL TRU- LOCK ADD-ON	500728	Tru-Lok Tube Guide (3-6 Ring)	0	0	1	1	1	1	Х	Х	Х	Х	Х	х
K AF	500729	Tru-Lok Extension Tube	1	2	3	4	5	6	Х	Х	Х	X	Х	Х
LOC	500775	Tru-Lok Accessory Carton 40°	1	1	1	1	1	1	Х	х	Х	х	Х	Х
	507727	Tru-Lok Roof Tube - 7'	1	1	1	1	1	1	Х	Х	Х	X	Х	Х
ЧЧ.	500191	Extension Ladder	1	2	3	4	5	6	1	2	3	4	5	6
DDE	500772	Basic Ladder 40°	1	1	1	1	1	1	1	1	1	1	1	1
OPTIONAL LADDER	507034	Ladder Stand-Off Ring	1	1	1	1	1	1	1	1	1	1	1	1
ļļ	507916	Roof Ladder 40°	1	1	1	1	1	1	1	1	1	1	1	1
	507640	Pneumatic Fill Kit - 7' 40°	Х	Х	Х	Х	Х	Х	1	1	1	1	1	1
=	704287	4" Tube Joiner w/ Hardware	X	X	Х	Х	Х	Х	0	0	0	0	0	1
PNEUMATIC FILL OPTIONS	704411	4" X 7' Galvanized Side Fill Tub	Х	X	Х	Х	Х	Х	0	0	0	0	0	0
EU MATIC I OPTIONS	704412	4" X 11' Galvanized Side Fill Tub	Х	Х	Х	Х	Х	Х	1	1	0	0	0	0
O NEL	704413	4" X 15' Galvanized Side Fill Tub	Х	X	Х	Х	Х	Х	0	0	1	0	0	0
	704414	4" X 19' Galvanized Side Fill Tub	X	X	Х	Х	Х	Х	0	0	0	1	1	1
	704441	4" X 4' Galvanized Side Fill Tub	Х	X	Х	Х	Х	Х	0	0	0	0	0	1

7 Ft Feed Bin Accessories - Parts List

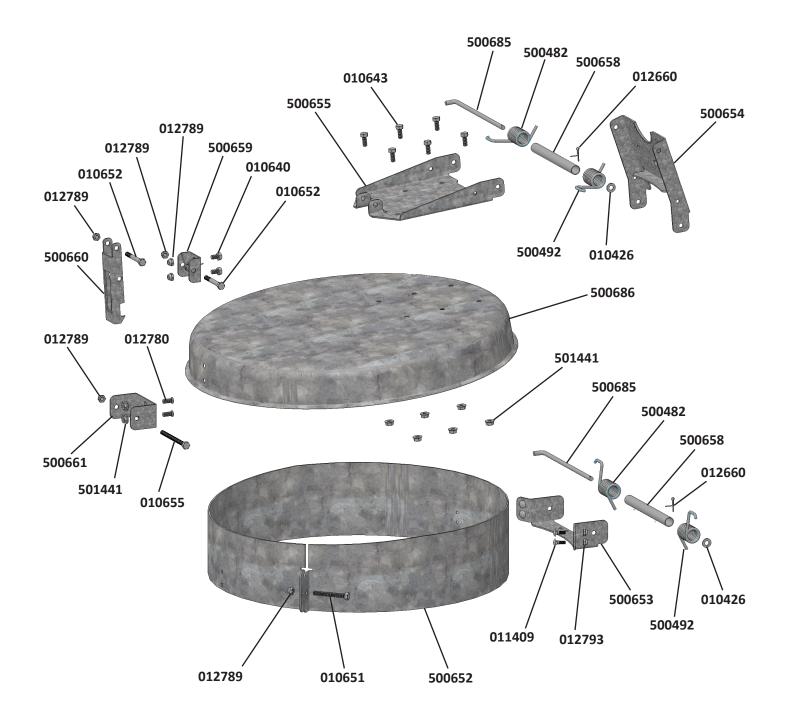
PART #	DESCRIPTION					
	Bin Accessories					
500191	Ladder Extension for 6', 7', 9' and 12' Bins					
500220	Anchor Bolt Kit for 6' and 7' Diameter Bins					
500578	Bin Lifting Bracket Kit					
500621	Taper Hopper Slide Valve					
501397	Roof Vent Kit - 7' Bin					
502003	Peek Thru Window					
506090	2.02 ton 20 ga. Extension Ring With Hardware - 6' Bin					
506250	6' Bin Taper Hopper Repair Kit					
506515	6' Taper Hopper Access Panel					
	Bin 16" Opening Attachments					
500374	Boot Slide Valve - Split Slide					
500471	Boot Slide Valve - Single Slide					
500475	30° Upper Boot Transition - Green					
500485	Straight Upper Boot Transition - Green					
500575	30° Upper Boot Transition - Clear					
500585	Straight Upper Boot Transition - Clear					
501190	Manual Slide Valve					
501997	Rack & Pinion with Crank					
700010	Straight Double Upper Boot Transition (Accomodates 2 Lower Boots)					

X V



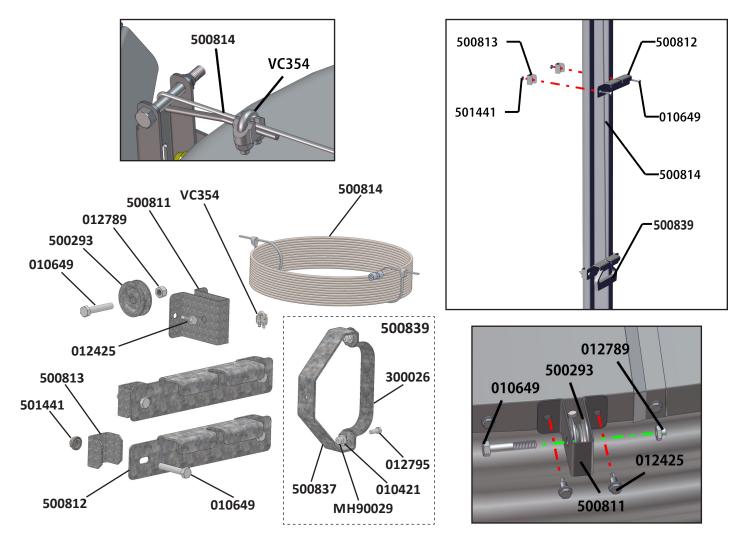
Way-Back Lid Assembly - Exploded Drawing (500650)

NOTE: Refer to installation instructions shipped with the Wayback Lid



PART #	DESCRIPTION	QTY				
	500650 - WAYBACK LID OPENER (Pre-Assembled)					
010426	WASHER, FLAT 5/16" SAE ZP	2				
010640	BOLT, HEX HEAD, 5/16-18 X 1/2" ZP	2				
010643	5/16-18 X 3/4" HEX BOLT	6				
010651	5/16" X 2-1/2" FULLY THREADED HEX BOLT	1				
010652	5/16" X 2-1/2" HEX BOLT	2				
010655	5/16-18 X 4" FULLY THREADED GRADE 5 TAP BOLT (YZP)	1				
011409	1/4-20 X 3/4" CARRIAGE BOLT	4				
012660	7/64" X 3/4" COTTER PIN	2				
012780	STUD, PRESS 5/16-18" X 3/4" ZP SELF CLINCHING	2				
012789	5/16-18 NYLOCK NUT	6				
012793	1/4-20 NYLOCK NUT	4				
500482	RIGHT HANDLE LOCK SPRING	2				
500492	LEFT HANDLE LOCK SPRING	2				
500638	25" X 25" X 9-3/8" CARTON	1				
500652	LID LOCKING COLLAR	1				
500653	BOTTOM LID HINGE BRKT	1				
500654	COLLAR TO LID HINGE BRKT	1				
500655	TOP LID HINGE BRKT.	1				
500658	SPRING SPACER	2				
500659	LID LOCKING BRACKET	1				
500660	LID UNLOCKING ARM	1				
500661	COLLAR LOCKING BRACKET	1				
500662	LID LOCKING SPRING	1				
500685	HINGE ROD L/COTTER PIN	2				
500686	STACKABLE BIN LID	1				
500815	HARDWARE BAG OPENER BIN LID	1				
501441	NUT, HEX FLANGE 5/16"-18, ZP JS500	8				

NOTE: When ordered as replacement parts quantities will vary.



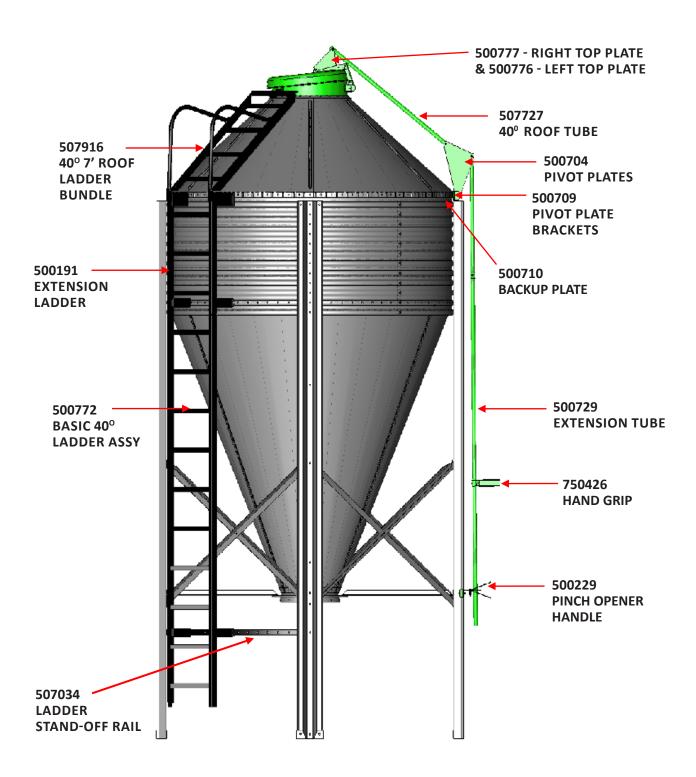
PART #	DESCRIPTION	QTY				
	500815 - HARDWARE BAG FOR BIN LID OPENER					
010421	3/16" FLAT WASHER	2				
010649	5/16-18 X 1-3/4" HEX BOLT	5				
012425	1/4" X 3/4" SELF DRILLING SCREWS	2				
012789	5/16-18 NYLOCK NUT	1				
012795	#10-24 X 1/2" UNSLOTTED HEX BOLT	2				
300026	LID HANDLE	1				
500293	PULLEY FOR LID CHAIN	1				
500811	RETAINER, PULLEY	1				
500812	RETAINER, HANDLE	2				
500813	CLAMP, RETAINER	4				
500814	CABLE ASSEMBLY, 1/8, 32.5'	1				
500837	BIN LID HANDLE TOP	1				
501441	5/16"-18 HEX FLANGE NUT	4				
MH90029	#10-24 NYLOCK NUT	2				
VC354	1/8" CABLE CLAMP	1				

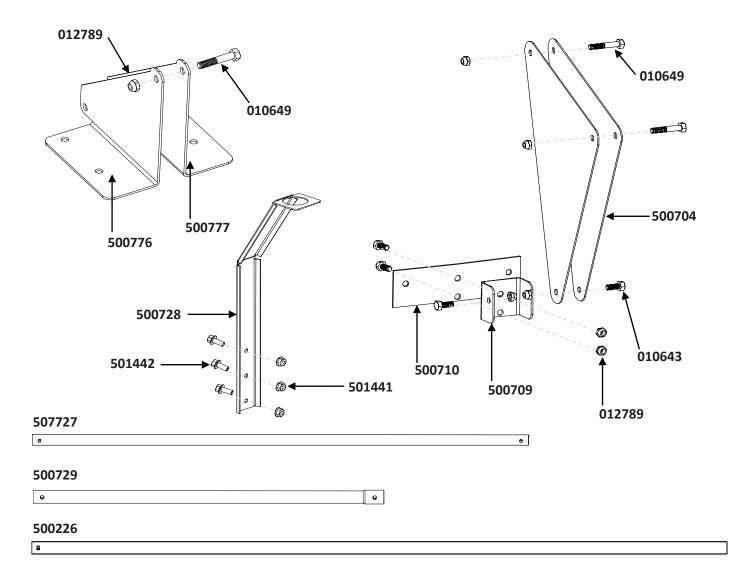
NOTE: When ordered as replacement parts quantities will vary.

NOTE: The Bin Lid Handle can be ordered pre-assembled as 500839 (BIN LID HANDLE ASSEMBLY)

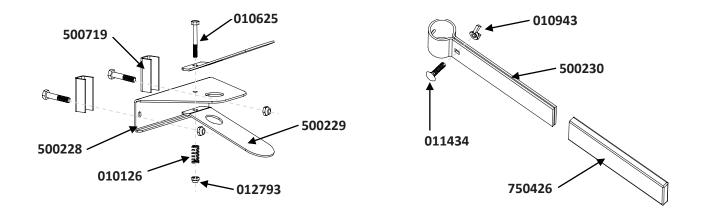
Tru-Lok Add-On Lid Opener and Ladder - Overview

NOTE: Refer to installation instructions shipped with the Tru-Lok Lid





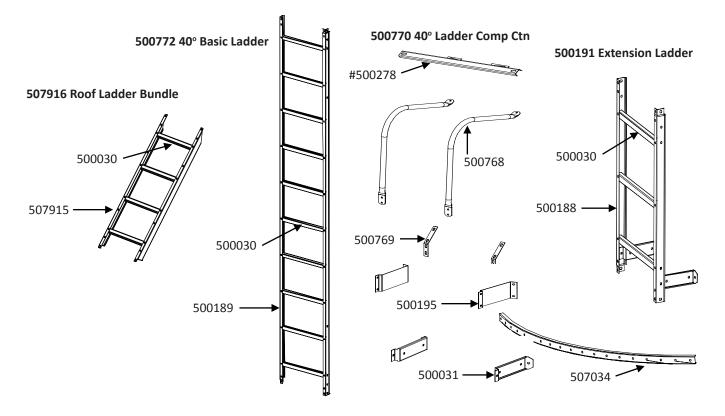
NOTE: It should be noted that the Basic Tube has NO holes for connections on the bottom end and the Extension Tube has a belled end to fit over, for connection, to the Basic Tube or other Extension Tubes.



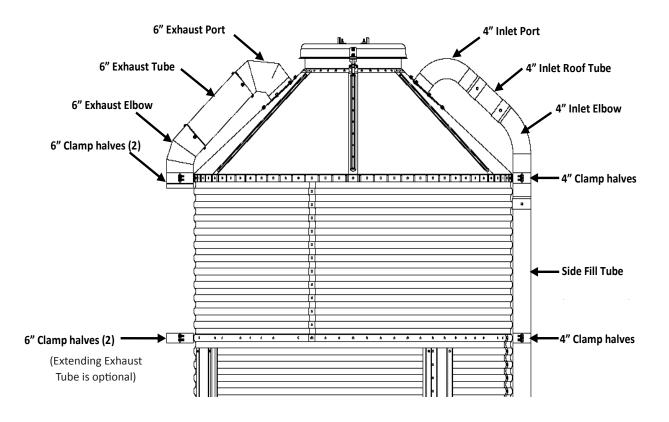


Tru-Lok Add-On - Parts List

PART #	DESCRIPTION	QTY				
	OPTIONAL - Tru-Lok Add-On (Available for all 7 ft Feed Bins)					
500775	Tru-Lok Accessory Carton	1				
507727	Tru-Lok 40° Roof Tube - 7'	1				
500226	Tru-Lok Basic Tube	1				
500729	Tru-Lok Extension Tube (Quantity will equal the number of Rings)	1-6				
500728	Tru-Lok Tube Guide (Available for 3-6 Ring only)	1				
	Tru-Lok Add-On - REPLACEMENT PARTS (Quantities will vary)					
500777	Right Top Plate	-				
500776	Left Top Plate	-				
507727	40° Roof Tube	-				
500704	Pivot Plates	-				
500709	Pivot Plate Bracket	-				
500710	Backup Plate	-				
500257	Pinch Handle Assembly	-				
500229	Pinch Opener Handle	-				
500228	Pinch Opener Mtg Bracket	-				
010126	1/2" Medium Load Spring	-				
500719	Handle Bracket Clip	-				
010625	1/4-20 x 2 Hex Bolt	-				
012793	1/4-20 Nylock Nut	-				
500230	Handle	-				
750426	Hand Grip	-				
010643	5/16-18 x 3/4" Hex Bolt	-				
011434	1/4-20 x 1 Carriage Bolt	-				
010943	1/4-20 Wing Nut	-				
010649	5/16" Hex Bolt	-				
012789	5/16" Locknut	-				
501442	5/16" x 1" Flanged Hex Bin Bolt	-				
501441	5/16" Flange Nut	-				



PART #	DESCRIPTION	QTY				
OP	OPTIONAL - Ladder Assemblies 507921,507922,507923,507924,507925, 507926					
500772	Basic 40° Ladder Assy	1				
500191	Extension Ladder (36") (Quantity will equal the number of Rings)	1-6				
507034	Ladder Stand-Off Rail	1				
507916	40° 7′ Roof Ladder Bundle	1				
	Ladder - REPLACEMENT PARTS (Quantities will vary)					
010643	5/16-18 X 3/4" Hex Bolt	-				
012789	5/16-18 Nylock Nut	-				
500030	Ladder Step	-				
500188	Ext Ladder Rail (36")	-				
500189	Ladder Rail (108")	2				
500199	Ext Ladder Harware Bag	1				
500770	40 DEG Ladder Comp Ctn	1				
500031	Ladder Attachment Bracket	-				
500195	Ladder Top Bracket	-				
500278	Roof Ladder Standoff	1				
500287	Ladder Hdwe Bag	-				
507915	7' x 40° Roof Ladder Angle	-				
500768	40° Ladder Top Handrail	2				
500769	40° Roof Ladder Bracket	2				
509915	40º Roof Ladder Rail	2				



When ordered as replacement parts the quantities will vary

PART #	DESCRIPTION	QTY			
	OPTIONAL - Pneumatic Fill Parts				
500534	Caulking (50' roll)	1			
500740	4" Narrow Clamp (half)	6			
500743	6" Exhaust Port (elbow) w/plate	1			
500744	6" x 24" galv. Duct elbow	1			
500751	6" Exhaust clamp (half)	6			
500786	4" inlet port w/plate	1			
500788	51 Degree Elbow (drilled)	1			
500942	Pneumatic Fill Hardware bag	1			
509425	6" x 39.87" Exhaust Tube	1			
509918	4" x 32.82" Inlet (roof) Tube	1			
704441	4" x 4' Galvanized Side Fill Tube (Available for 6 ring only)	1			
704412	4" x 11' Galvanized Side Fill Tube (Available for 1-2 Ring only)	1			
704413	4" x 15' Galvanized Side Fill Tube (Available for 3 Ring only)	1			
704414	4" x 19' Galvanized Side Fill Tube (Available for 4-6 Ring only)	1			
704287	4" Tube Joiner With Hardware (Available for 6 Ring only)	1			

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	State / Province		
Customer Service 210 E. Main Street	Zip / Postal		
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	Fax		
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