



## Lower Vertical Auger Bearing Replacement Procedure

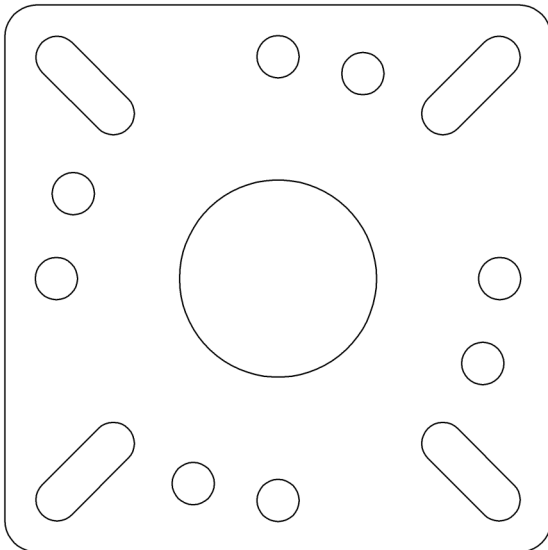
### Inventory

#### Required Hardware:

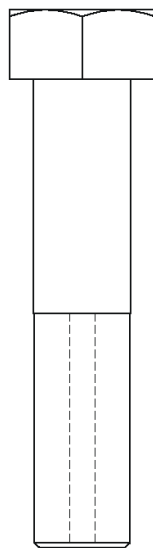
- (1) Drill Jig Plate P# 85571
- (4) 5/8" X 3" Bolt P# 1295
- (4) 5/8" Locknut P# 2546
- (3) Gasket 4" Cam Lock P# 22340
- (1) .125" X 2.18" X 2.87" Washer P# 92413
- (1) .375" X 2.18" X 2.87" Washer P# 92414
- (1) .25" X 2.18" X 2.87" Washer P# 92415

#### Required Tools / Equipment:

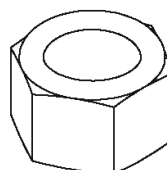
- |                |                |
|----------------|----------------|
| Crane          | Lifting Tackle |
| Wrenches       | Straight Edge  |
| Measuring Tape | Never Seize    |



P# 85571



P# 1295



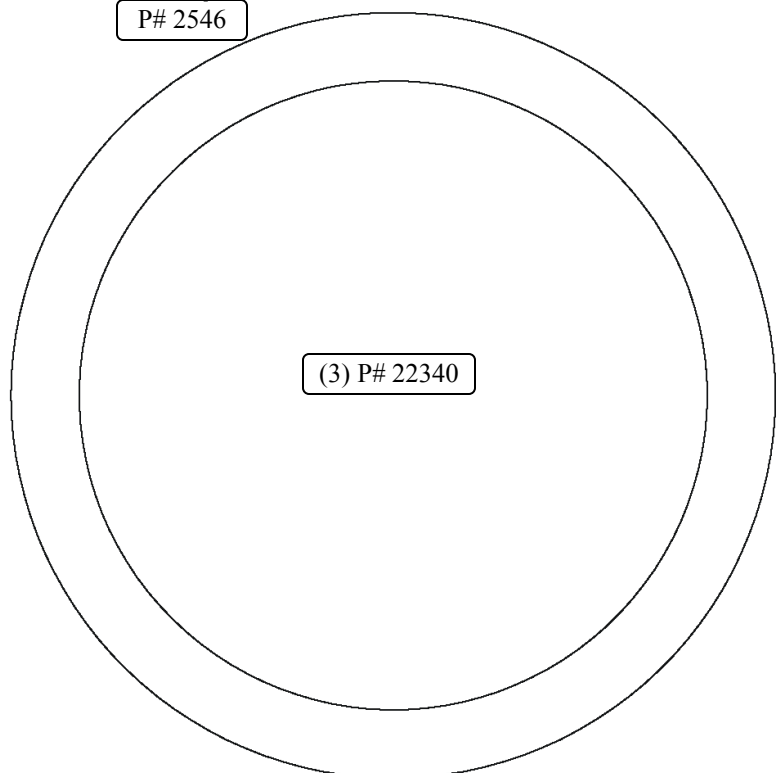
P# 2546



P# 92413

P# 92414

P# 92415



(3) P# 22340

## Lower Vertical Auger Bearing Replacement Procedure

Required Hardware:

N/A

Required Tools / Equipment:

Wrenches

Remove hardware holding shields in place. See Figure 1.

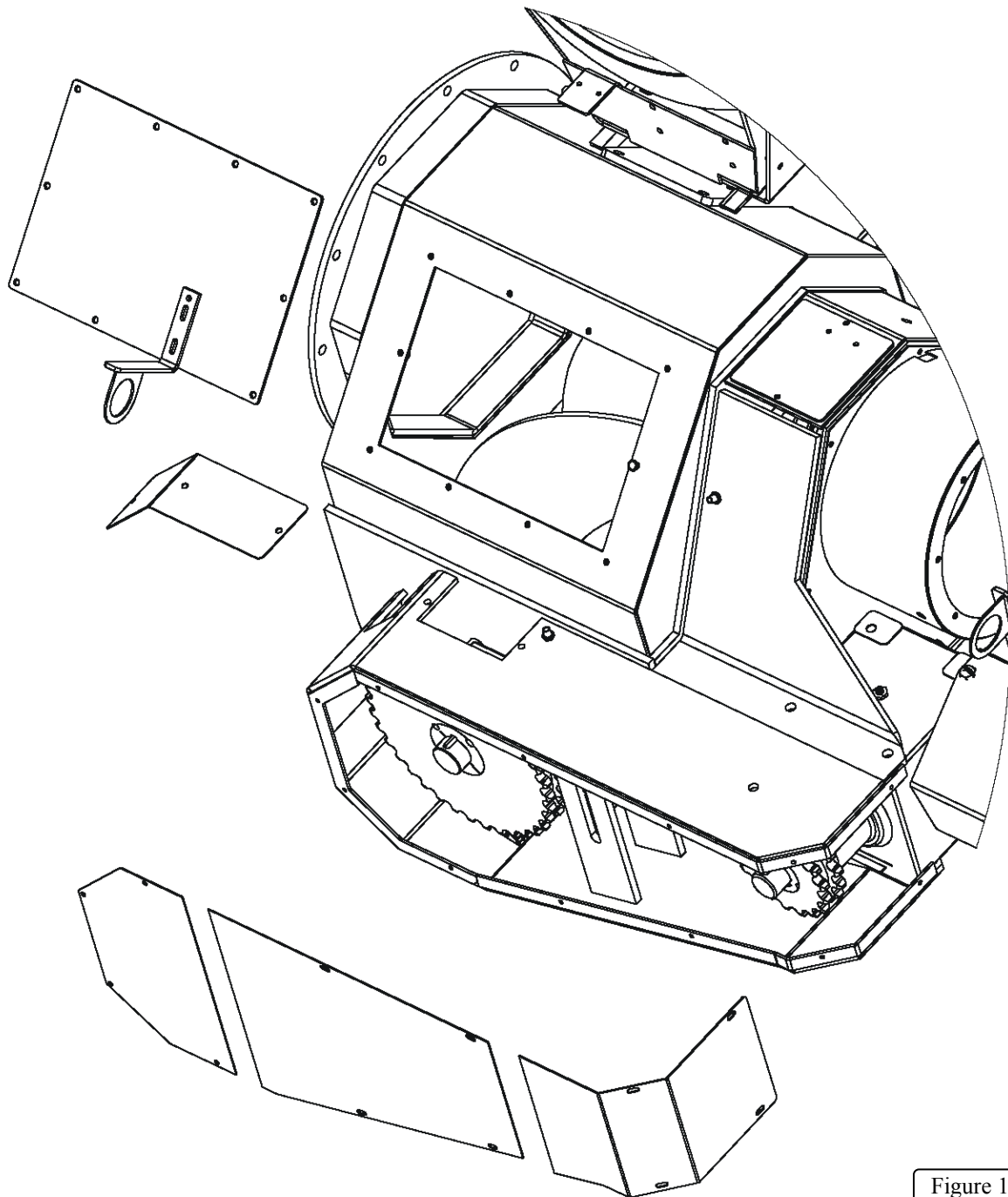


Figure 1

## Lower Vertical Auger Bearing Replacement Procedure



Required Hardware:

N/A

Required Tools / Equipment:

Wrenches

Loosen chain idler sprocket P# 80508. Disassemble double chain connector link P# 90926. Remove chain from sprockets. Disassemble sprocket P# 80506 and taperlock bushing P# 80512 by removing allen screws. Insert one allen screw into removal hole and tighten till it can be removed. See Figure 2. Remove key P# 2437. Remove bolts holding bearing in place. Remove grease line and old bearing, leaving bolts in place. See Figure 3.



Figure 2

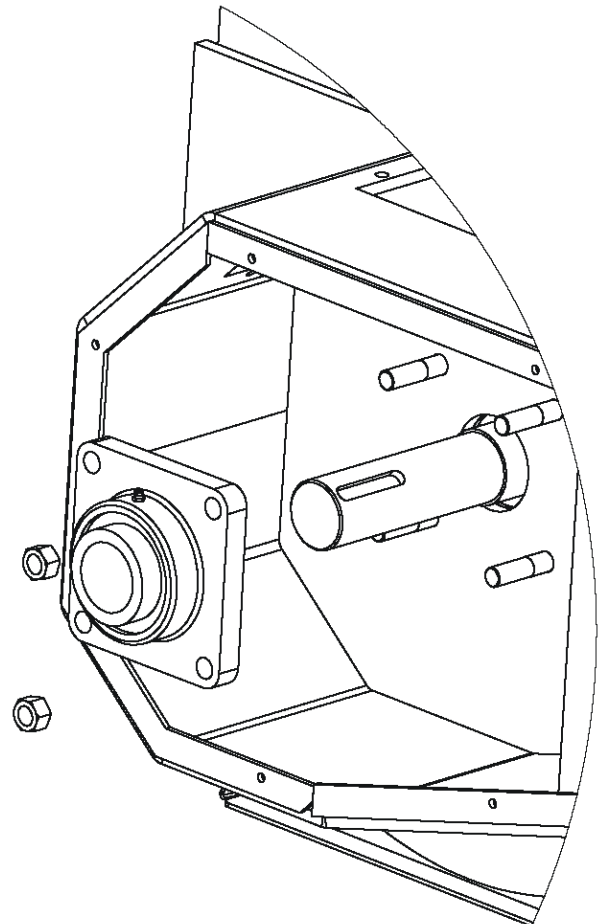
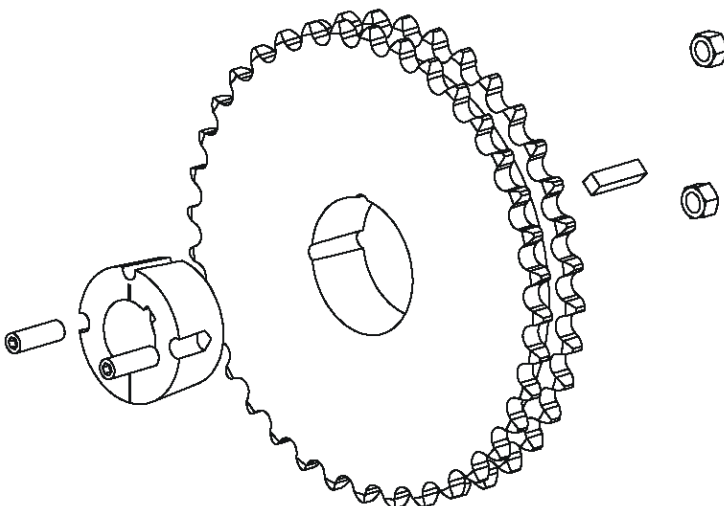


Figure 3

## Lower Vertical Auger Bearing Replacement Procedure

### Required Hardware:

Blocking Material

### Required Tools / Equipment:

Crane  
Wrenches

Lifting Tackle  
Never Seize

Remove hardware from the top hanger bearing on lower vertical auger. Attach lifting tackle to auger and slide auger up until you have enough room to access back side of old bearing. DO NOT pull lower vertical auger shaft past the hole in the housing. It is difficult to re-align. Insert blocking material to ensure lower vertical auger will not slide back down causing injury. See Figures 4 and 5.



Figure 4



Figure 5

## Lower Vertical Auger Bearing Replacement Procedure

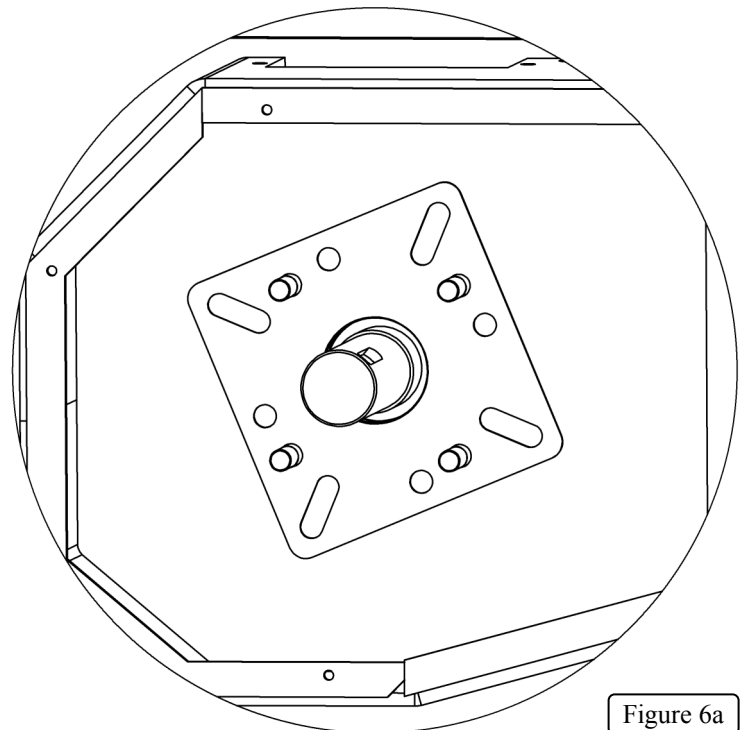
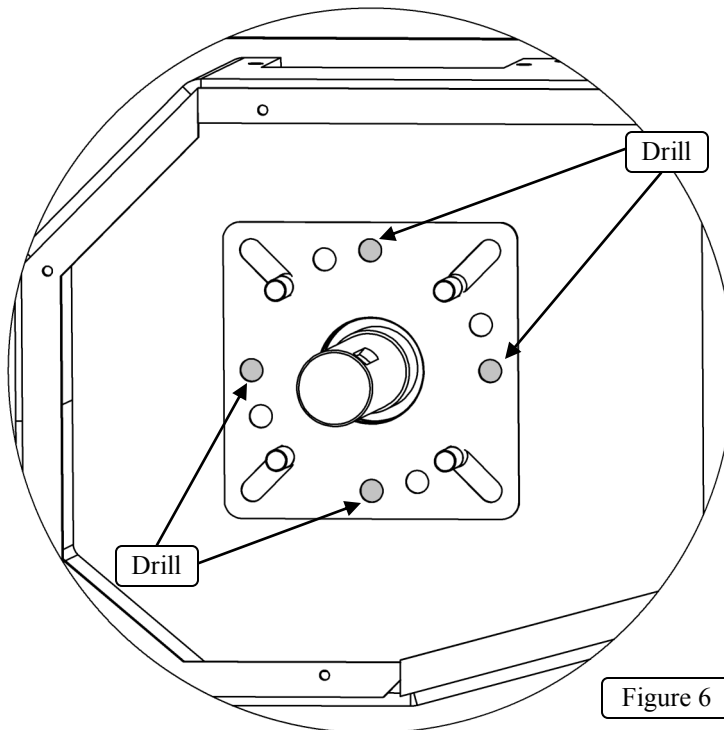
### Required Hardware:

Drill Jig Plate P# 85571

### Required Tools / Equipment:

Drill                      13/32" Drill Bit

Align drill jig plate P# 85571 with old bearing hardware. Drill new holes for replacement bearing using 13/32" drill bit. See Figure 6. Remove drill jig plate and clean debris from housing. Replace drill jig plate as shown in Figure 6a.





## Lower Vertical Auger Bearing Replacement Procedure

### Required Hardware:

N/A

### Required Tools / Equipment:

Crane  
Lifting Tackle  
Wrenches

Attach lifting tackle to auger and slide auger back into position. Replace hardware on the top hanger bearing on lower vertical auger. See Figures 7 and 8.



Figure 7



Figure 8

## Lower Vertical Auger Bearing Replacement Procedure

### Required Hardware:

- (4) 5/8" X 3" Bolt P# 1295
- (4) 5/8" Locknut P# 2546
- (3) Gasket 4" Cam Lock P# 22340

### Required Tools / Equipment:

Wrenches

Slide the three gaskets P# 22340 onto auger shaft. Slide lower vertical auger bearing P# 84492 onto auger shaft and secure with bolts P# 1295 and locknuts P# 2546. Tighten bolts enough to bring bearing tight to housing. Figure 9. Attach lower vertical auger bearing grease line to housing swivel adapter. See Figure 10. Proceed to sawtooth coupler alignment.

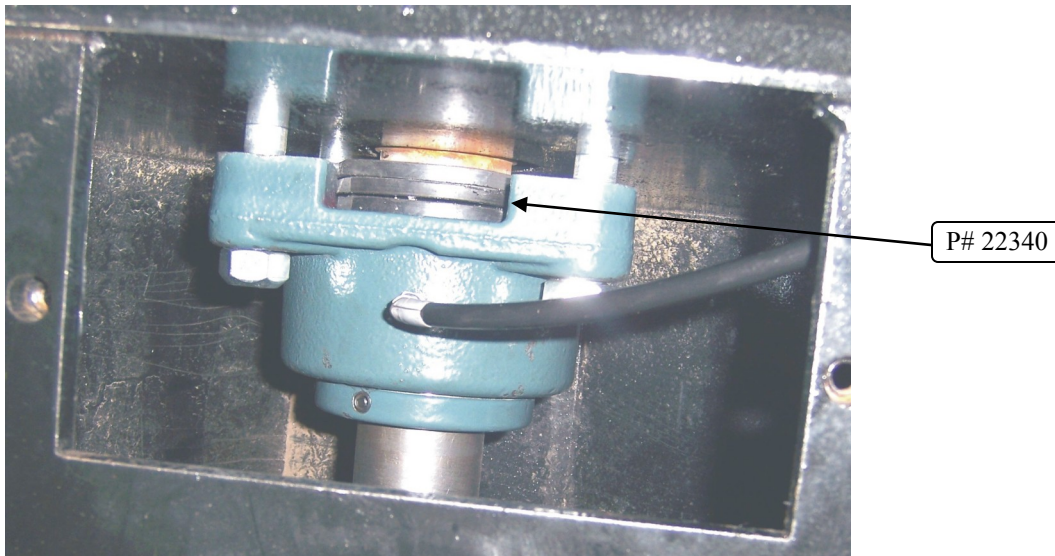


Figure 9

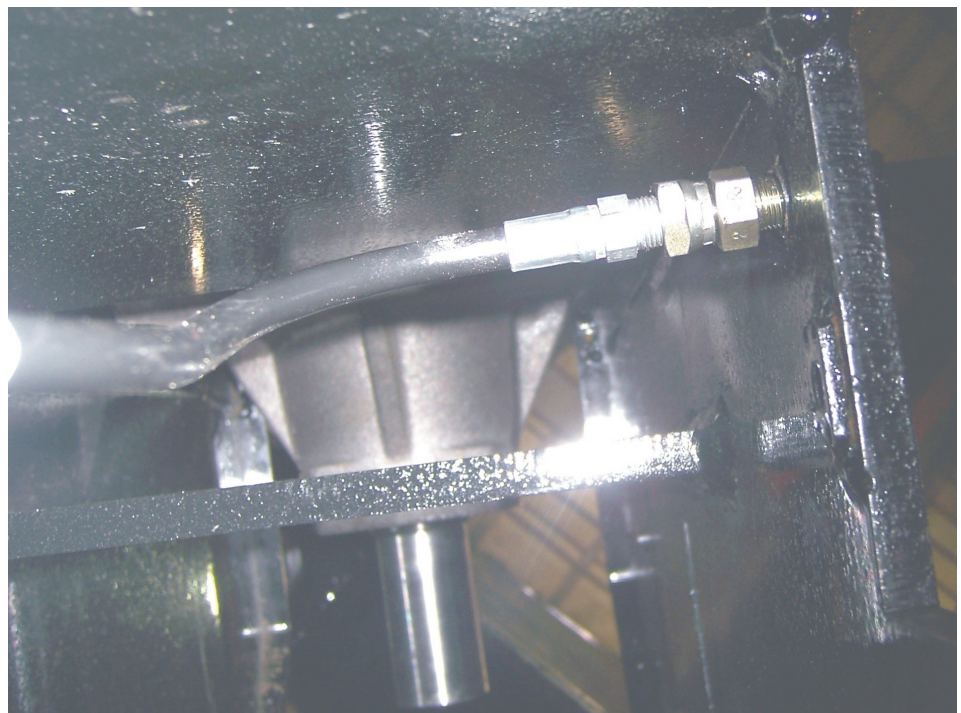


Figure 10



## Lower Vertical Auger Bearing Replacement Procedure

### Required Hardware:

- (1) .125" X 2.18" X 2.87" Washer P# 92413
- (1) .375" X 2.18" X 2.87" Washer P# 92414
- (1) .25" X 2.18" X 2.87" Washer P# 92415

### Required Tools / Equipment:

- Crane
- Wrenches
- Measuring Tape
- Lifting Tackle
- Straight Edge

The alignment of the sawtooth coupler is important to ensure the life of the vertical auger. Make sure auger is resting completely down. Place a straight edge across the top of the auger tube, measure the distance between the straight edge and the teeth of the sawtooth coupler. See Figure 11. The desired measurement is 1 3/8". If the measurement is less than 1 3/8", determine the washer needed to set this distance. Three washers are provided to accomplish this. See Figure 12. If a washer is needed, attach crane to auger and raise till shaft is clear of lower bearing. Loosen bolts holding bearing in place. See Figure 13. Insert washer and tighten bolts on bearing. Lower auger back into bearing and check spacing on sawtooth coupler. Once correct measurement is achieved, replace hardware on hanger bearing.



Figure 11

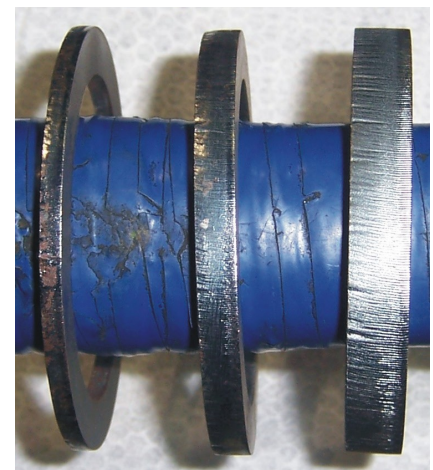


Figure 12

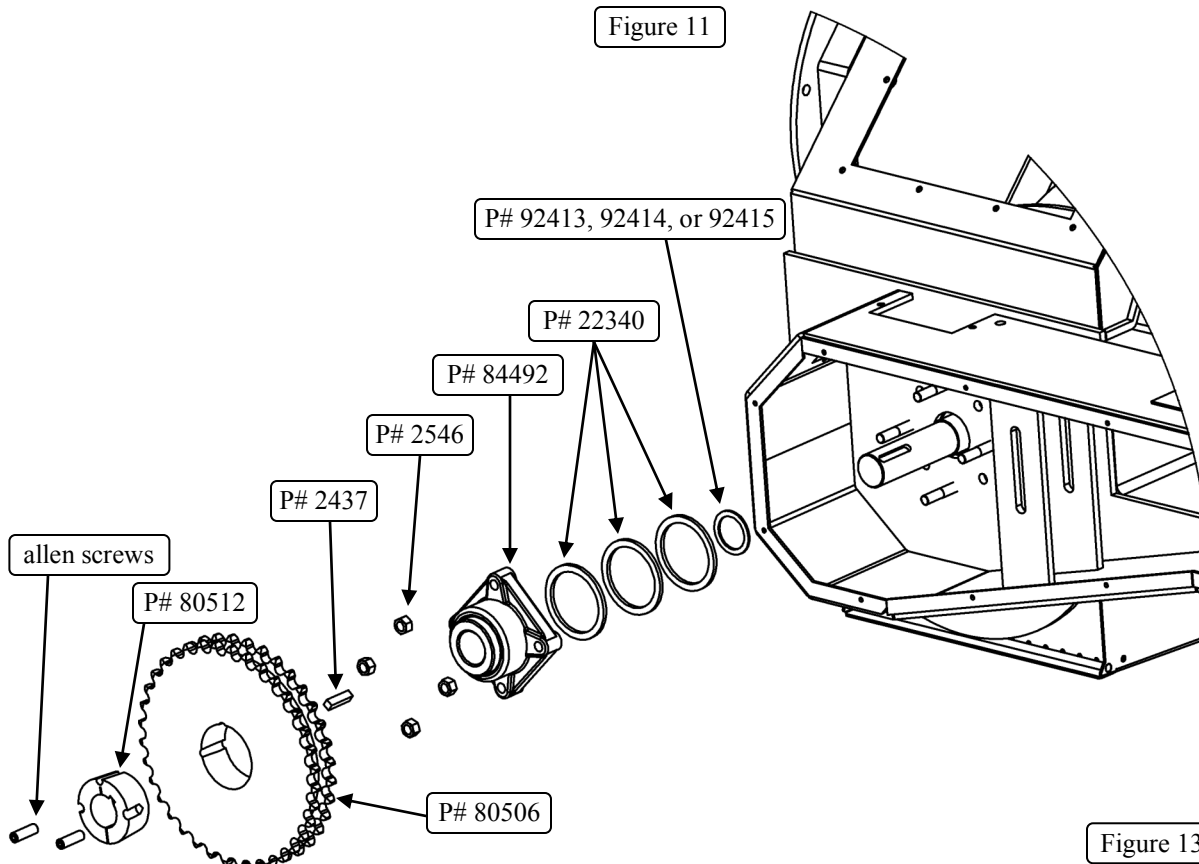


Figure 13



## Lower Vertical Auger Bearing Replacement Procedure

### Required Hardware:

N/A

### Required Tools / Equipment:

Wrenches      Never Seize

Apply Never Seize to auger shaft and key P# 2437. See Figure 14. Apply Never Seize to allen screws previously removed from taperlock bushing P# 80512. Assemble Sprocket P# 80506, Taperlock Bushing P# 80512 using allen screws previously removed from bushing. See Figures 15 and 16.

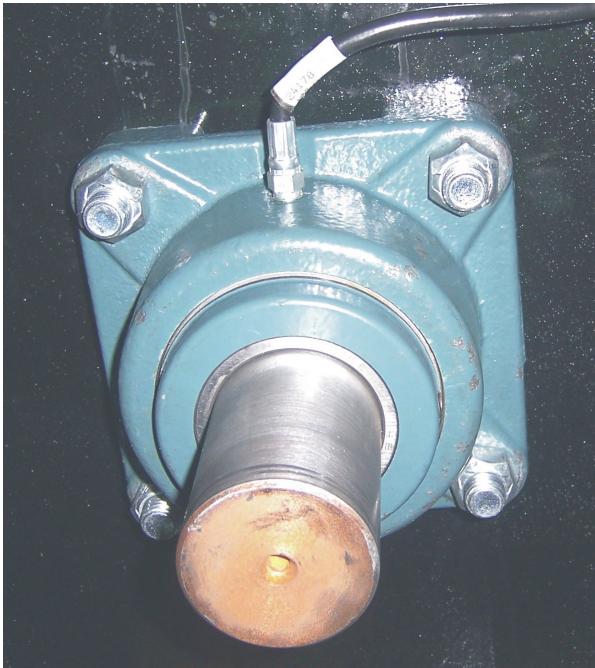


Figure 14

**NOTE** ✓ Small sprocket shown for illustration.



Figure 15



Figure 16

## Lower Vertical Auger Bearing Replacement Procedure

### Required Hardware:

N/A

### Required Tools / Equipment:

Wrenches      Never Seize  
Straight Edge

Slide Sprocket P# 80506 and bushing onto shaft until it hits bearing. Tighten allen screws enough to allow for movement. This will pull sprocket away from bearing. See Figure 17. Use straight edge to check alignment of pulleys. See Figure 18.



Figure 17

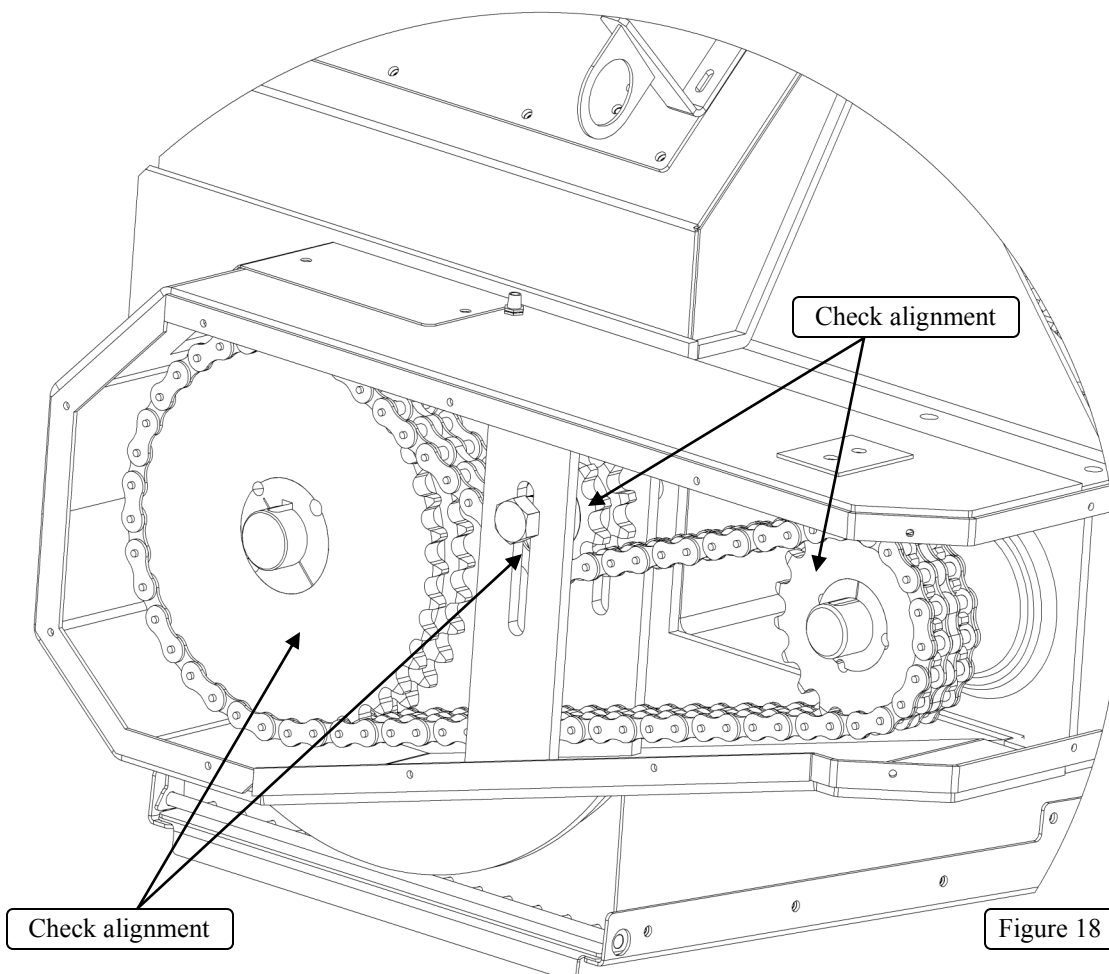


Figure 18



## Lower Vertical Auger Bearing Replacement Procedure

### Required Hardware:

N/A

### Required Tools / Equipment:

Wrenches  
Rag

Never Seize  
Pipe Wrench

Insert chain P# 80510A on top of gearbox pulley. Wrap a rag around PTO splines and use pipe wrench to rotate gearbox sprocket. See Figure 19. Rotate gearbox PTO spline to thread chain on top of gearbox sprocket and large auger sprocket. See Figures 20 and 21. Continue wrapping chain around sprockets till they meet at small gearbox sprocket.

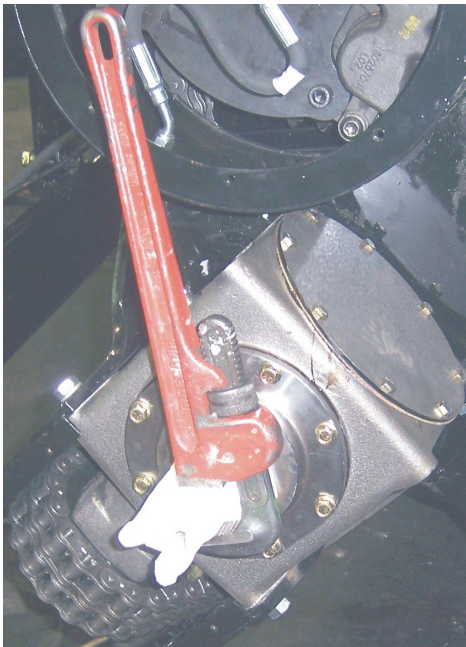


Figure 19



Figure 20



Figure 21



## Lower Vertical Auger Bearing Replacement Procedure

### Required Hardware:

N/A

### Required Tools / Equipment:

Needle Nose Pliers

Bring both chain ends together at small sprocket. Insert double chain connector link to connect the two ends of the chain. See Figure 22 Insert two center pieces of double chain connector link and then outer piece. Insert two cotter pins and bend so they will not catch on anything. See Figures 23 and 24.



Figure 22



Figure 23

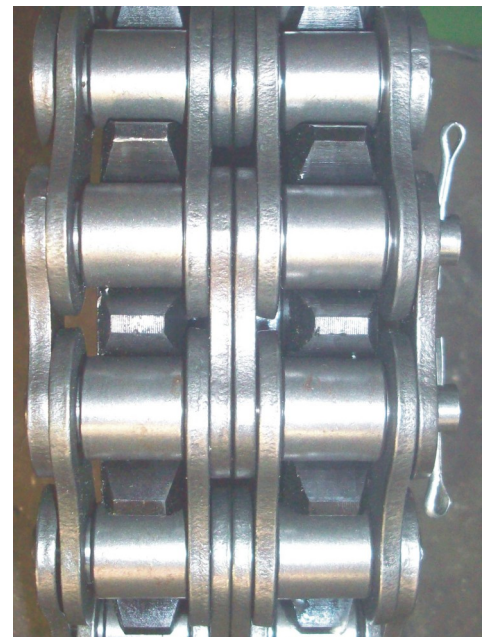


Figure 24

## Lower Vertical Auger Bearing Replacement Procedure



Required Hardware:

N/A

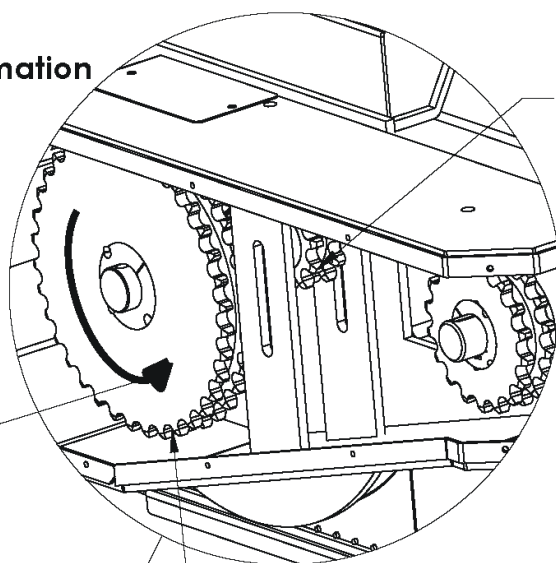
Required Tools / Equipment:

Wrenches

Align auger sprocket and gearbox sprocket to fixed position of idler sprocket. Fully tighten allen screws for auger sprocket and gearbox sprocket. Check alignment by rotating PTO spline. Adjust tension on idler sprocket and tighten fully. See Figures 25 and 26.

### Vertical Drive Service Information

Direction



#### TIGHT SIDE OF CHAIN

Adjust chain tightener so that in tightest position this is a 1/2" deflection on the tight side of chain

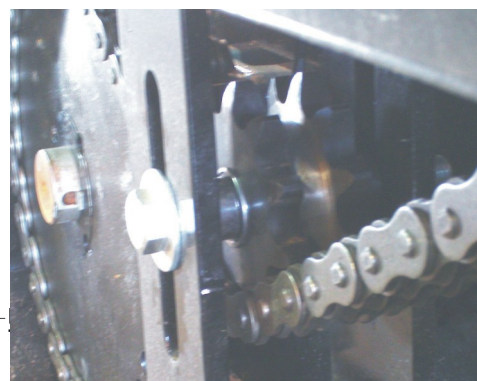
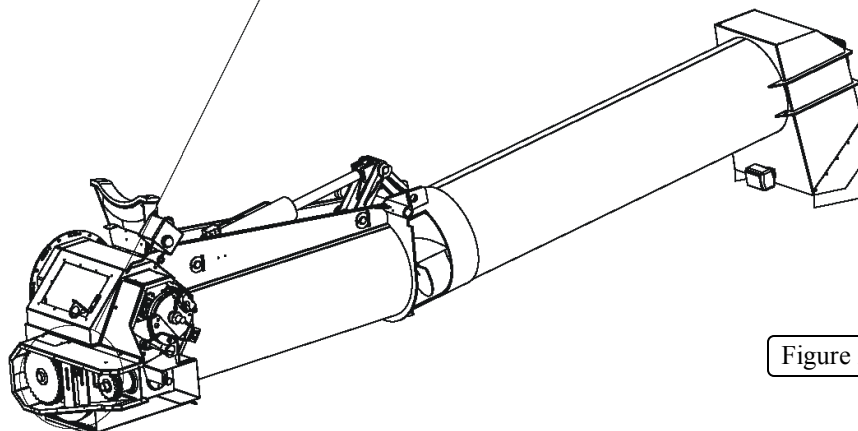


Figure 25

Figure 26

## Lower Vertical Auger Bearing Replacement Procedure

Required Hardware:

N/A

Required Tools / Equipment:

Wrenches

Replace shields and secure with hardware. See Figure 27.

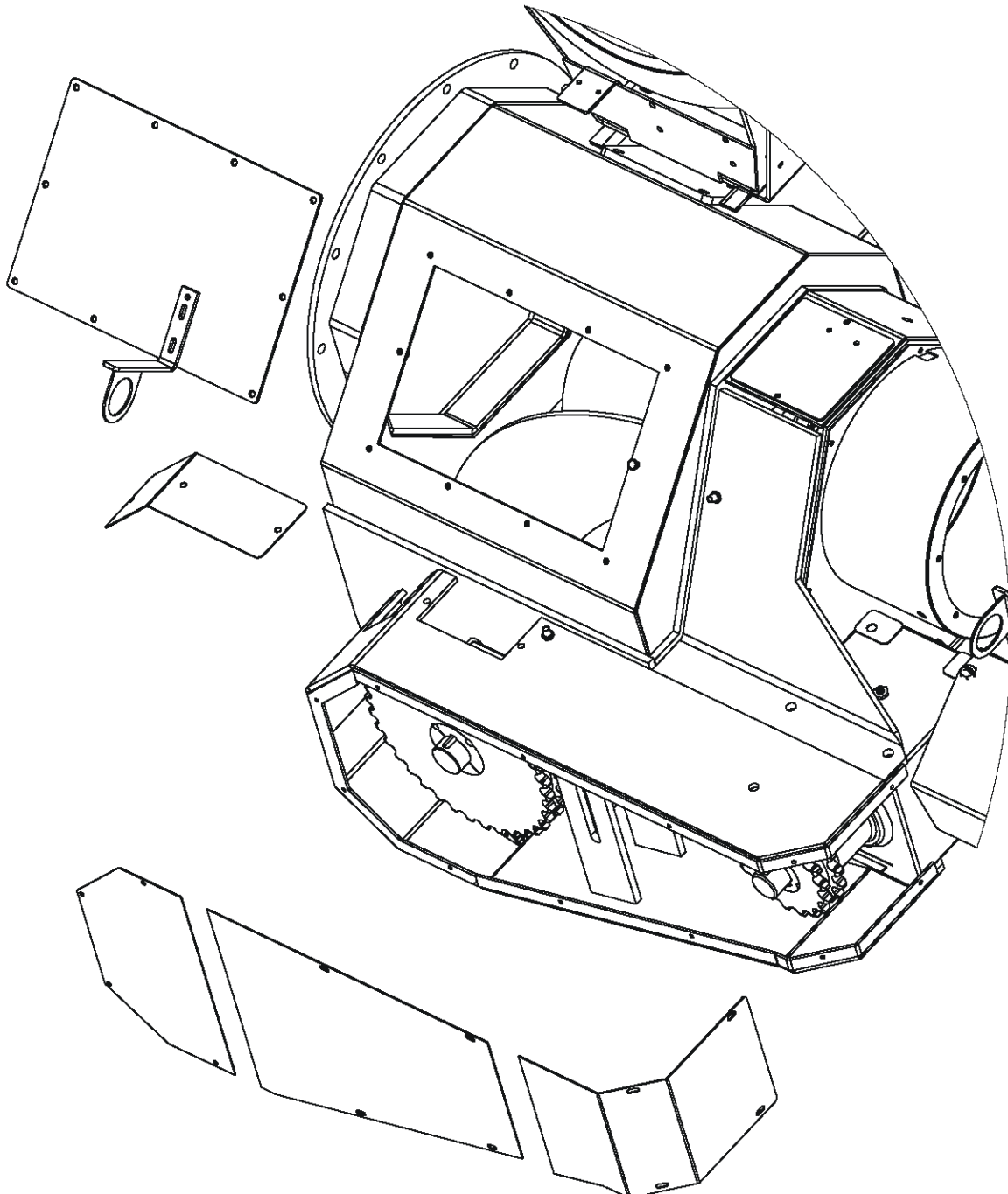


Figure 27