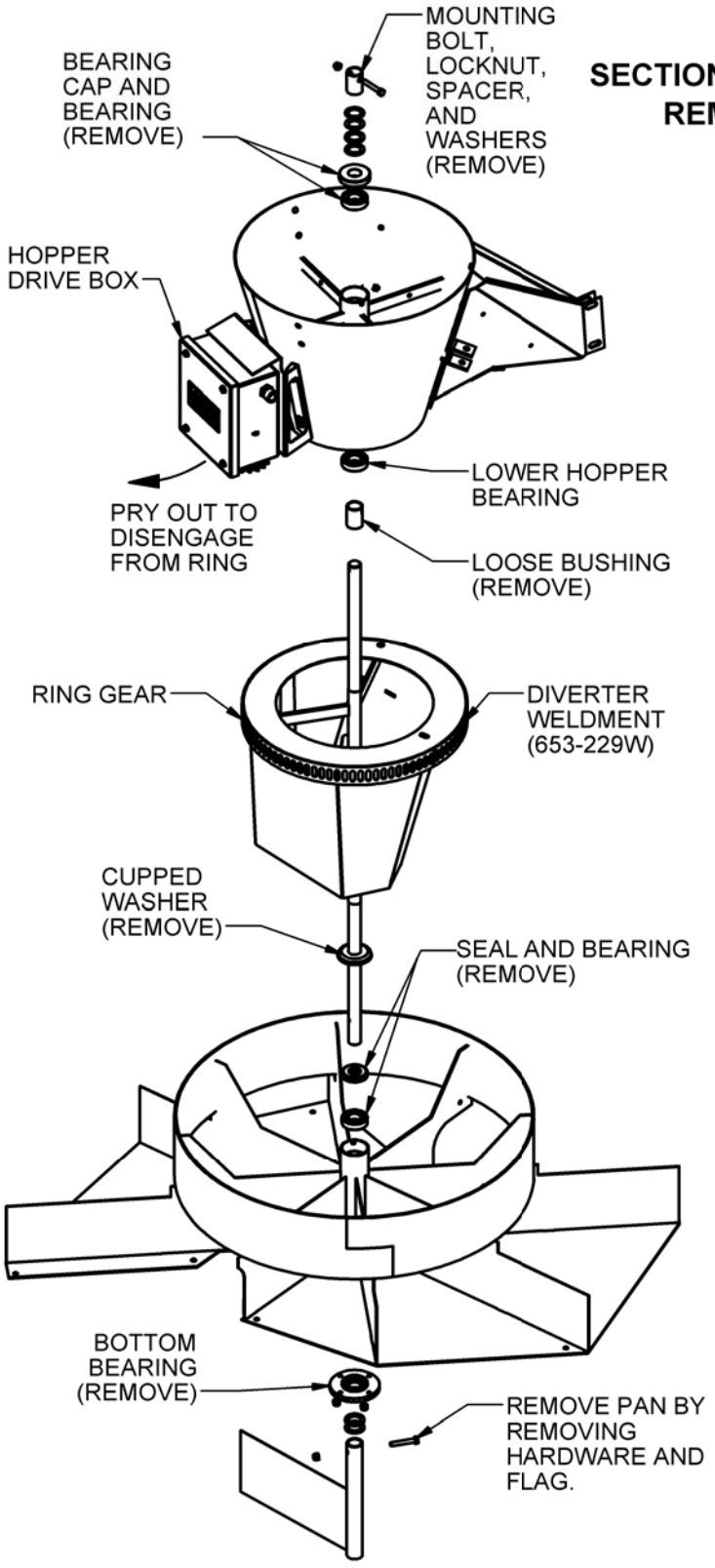
SHIVVERS® CONTROLLED FLOW GRAIN SPREADER

DANGER

MAKE SURE MAIN POWER IS DISCONNECTED AND LOCKED OFF TO SPREADER, FLOOR AUGERS, AND TRANSFER AUGERS IN THIS BIN.



SECTION I. PAN ASSEMBLY UPDATE INSTRUCTIONS: REMOVING PARTS FROM SPREADER

1. Lower CFGS to bin floor and turn unit over onto its top so the pan be lifted off. (NOTE: Be careful not to bend the main shaft.)

2. From the pan, remove the flag, spacer, and any washers that prevent pan from coming off. Remove the drive belts. Remove the pan and place it bottom up onto two 4 x 4's on the floor. (NOTE: A protective cupped washer should still be on the main shaft. Remove it also.)

3. Remove the bottom bearing on the pan by removing the hardware holding it in place.

4. Using a hammer and long punch, remove the top bearing and seal.

5. Lay the hopper on its side. Remove the mounting bolt, locknut, washers, and spacer from hopper. Disengage hopper drive box by prying it away from ring gear.

6. Drive the shaft down through the bearings.

7. Remove the loose-fitting bushing from the shaft and discard.

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11/30/2017

SECTION II. PAN ASSEMBLY UPDATE INSTRUCTIONS:
REASSEMBLY WITH NEW PARTS.

1. Inspect the shaft and make sure the new bearings will slide up to the shoulder. NOTE: If the diverter shaft is worn, replace the diverter weldment (653-229W).

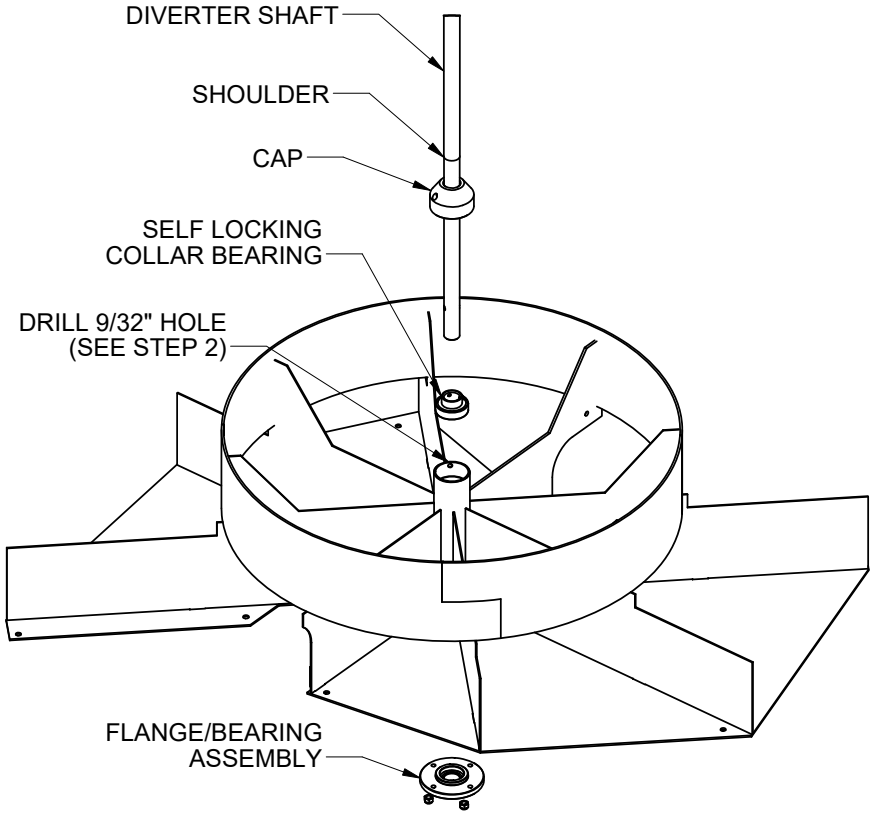
2. Drill a 9/32" hole down 1/4" from the top of the tube, to allow access to the setscrews in the new bearing.

3. Press the new self locking collar bearing (D-3735) into the bore until it bottoms out. (NOTE: Avoid pressing or driving against the inner race of the bearing. Apply force to the outer ring only during installation.)

4. The seal is being replaced by a cap (653-264A). Slide it onto the shaft, as shown, up past the shoulder (for installation only).

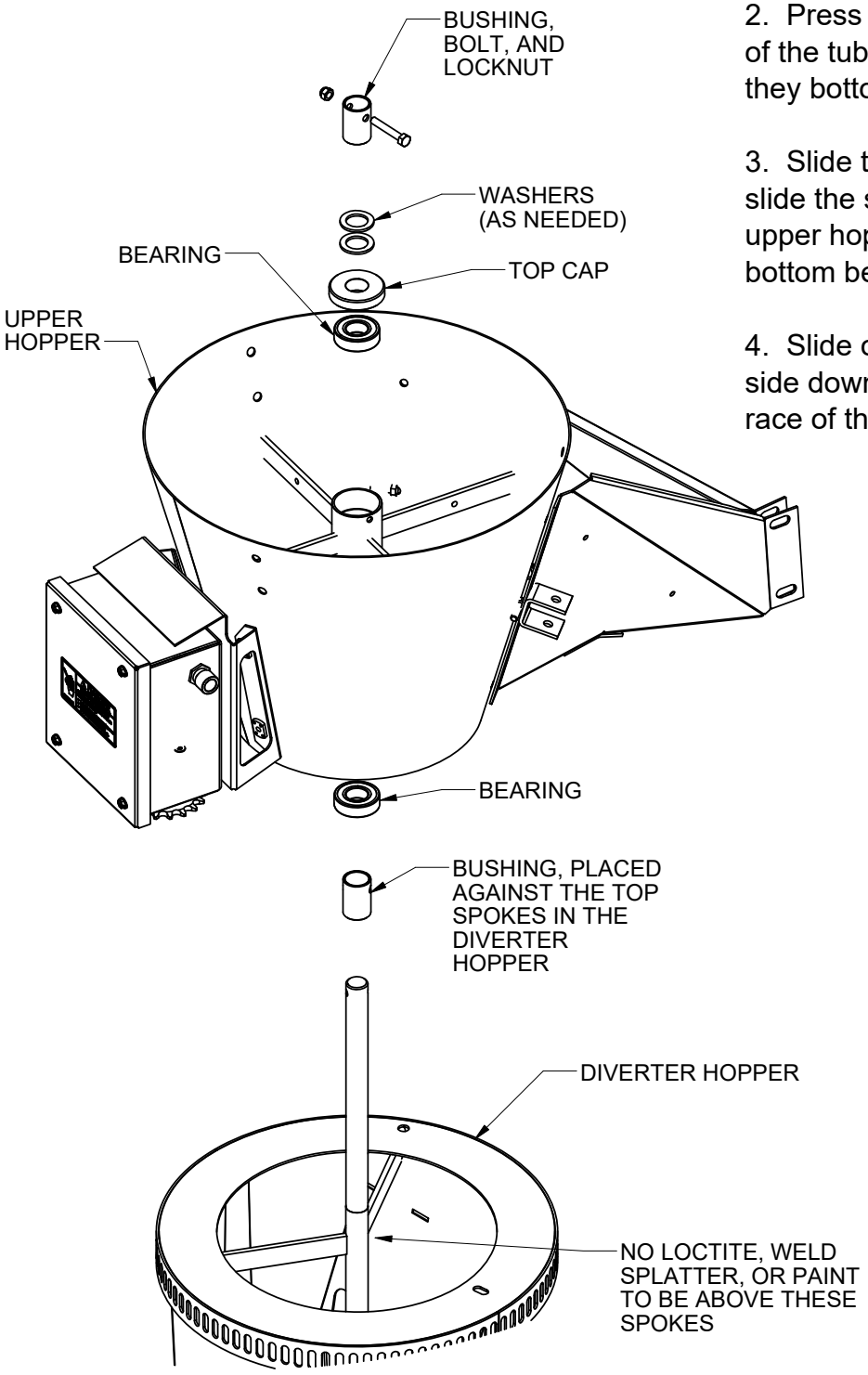
5. Place the new Flange/Bearing assembly into the former bearing bore, and orient the holes so they line up. If there are no holes in spreader pan, clamp the bearing in place, centering the mounting holes between fins. Drill four 11/32" holes into the spreader pan, using the Flange/Bearing assembly as a template.

6. Insert the 5/16" bolts through the holes and fasten securely with the locknuts provided.



SECTION III. UPGRADE THE HOPPER BEARINGS

1. Inspect the shaft and sand off any remaining Loctite, weld splatter, and paint above the spokes of the diverter hopper. One of the new bushings should slide on the shaft and rest against at least one of the spokes.



2. Press a new bearing into each end of the tube in the upper hopper until they bottom out.

3. Slide the bushing onto the shaft and slide the shaft into the bearing of the upper hopper until the inner race of the bottom bearing contacts the bushing.

4. Slide on the new top cap (with open side down) until it contacts the inner race of the top bearing.

5. Slide the other bushing onto the shaft and install the bolt and locknut. There should not be more than 1/16" of play in the end. If there is, you should add in the washers included in sack. The bearings in the upper hopper have now been upgraded and the diverter hopper reinstalled.

SECTION IV. FINAL ASSEMBLY

1. With the Hopper/Diverter now fitted with the new bearings, turn it back onto its top with the shaft pointing upwards.

2. Place the pan assembly back onto the shaft of the Grain Spreader until the bearing stops against the shoulder of the shaft. Tighten the setscrews of the bearing through the 9/32" hole drilled earlier. Slide the protective cap up until it contacts the inner race of the bearing and tighten both of its setscrews to secure it in place.

3. Secure the pan with the two 12 gauge washers, the original flag, and its mounting hardware.

4. Reinstall the drive belts. Now might be a good time to inspect them and replace if needed. The bottom belt shield can be discarded once it is removed. It will not be reinstalled.

5. Reinstall the Controlled Flow Grain Spreader to its place. Make all electrical connections and test it to make sure everything is operating properly and that the belts will not come off during operation.