

Auger Drive Shaft Adjust

Assembly of the auger drive shaft is critical in order to prevent damage to the seals. Note that the hydraulic motor, the drive chain, and the sprockets are all assembled.

1. Assemble the drive shaft housing, thrust plate, and gasket to the auger drive housing. The grease fitting on the shaft housing is located on the top and angled toward the front of the machine. (See Fig. 1-A.)

2. Place the gate mount bracket and inner seal sleeve onto the drive shaft housing. The gate mount bracket mounts with the long leg up and the small ears toward the front. The seal sleeve mounts with the edge closest to the set screws furthest inboard.

3. Grease the seals and place them onto their respective rings. Place the seals onto the auger drive shaft and into the recess on the shaft shield* Grease the thrust washer and place it onto the end of the shaft. (Fig. 1-A.)

4. Grease the auger drive shaft and slip it into the housing until the end of the shaft begins to clear the thrust plate. Slip the bronze thrust washer-spacer behind the sprocket and onto the shaft. The 45° chamfer will help to lead the spacer onto the shaft. Rotate the shaft and slide it in just far enough to get the sprocket started on the shaft.

*NOTE: If the seal rings have separated, then place one seal in the drive shaft shield and the other seal into the inner seal ring.

5. Slip the inner seal collar out until it contacts the inside of the drive shaft shoulder. Now rotate the drive shaft and slip it into the housing and through the sprocket as far as possible. Rotate the shaft to align the keyways and slip the key into place.

6. Turn the castle nut onto the shaft until it comes up snug against the sprocket. Insure the inner seal sleeve is against the drive shaft shield inner shoulder. Hold the auger shaft from moving and tighten the shaft nut until it takes all of the end play out of the drive shaft. Tighten the inner seal sleeve set screws and scribe a line on the sleeve. Back the castle nut off until there is 1/16" to 1/8" end play to the drive shaft. Lock the castle nut in place with a new cotter pin.