

Preliminary Instructions

INSTRUCTIONS FOR INSTALLING THE NEW RKP GAUGE WHEEL ARM PIVOT KIT ON JOHN DEERE 1700 ME5 SERIES PLANTERS WITH ADJUSTING SLEEVE

When working on your planter in the raised position be certain that service locks are installed or parking stands are down and properly secured. Wear proper protective clothing and eye protection. Review the safety section in you operator's manual.

IMPORTANT: READ INSTRUCTIONS CAREFULLY

Proper installation of the R K P Gauge Wheel Arm Pivot Kit will result in the opener disks being cleaned by the gauge wheel tires therefor the scrapers can usually be eliminated.

REMOVAL

1. Remove arm (A) and threaded bushing and discard. If necessary file or grind the ends of the hub to make sure they are smooth and flat and free of excessive paint. Make sure the adjusting washers at position (H) will lay flat on inner end of hub. If the arm interferes, eliminate the interference by grinding.

INSTALL ME5 SLEEVE BEARING

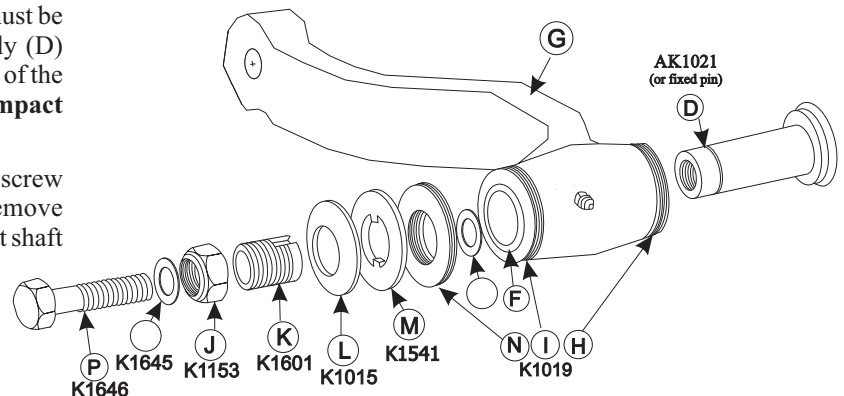
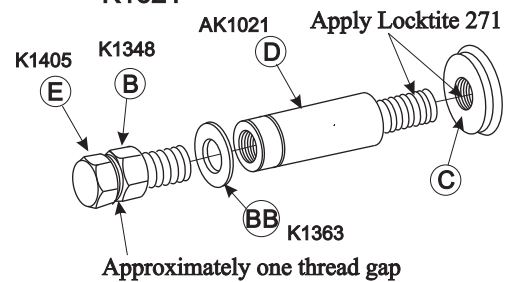
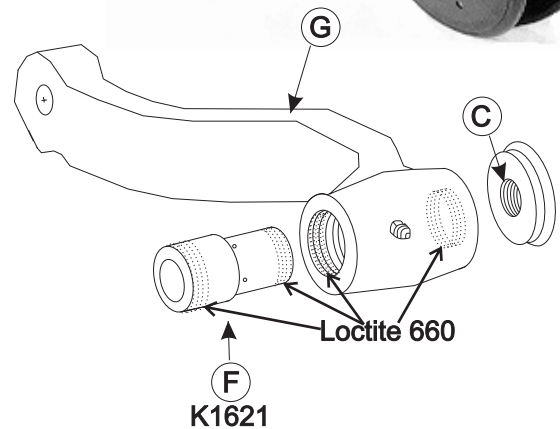
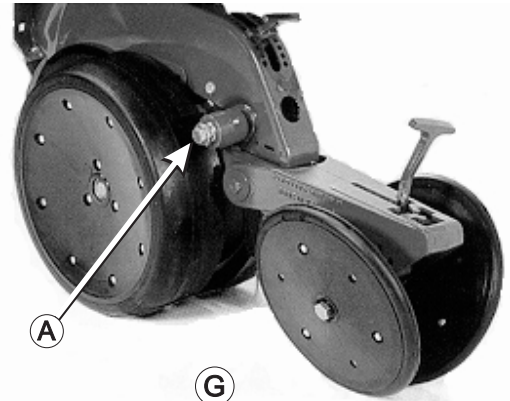
2. Make sure parts are clean and dry. Install Sleeve bearing (F) into bore of arm using Loctite 660 retaining compound on the four mating surfaces as shown. Use a cotton swab to spread the compound. Rotate the sleeve bearing in the bore to spread the compound evenly. The end of the sleeve bearing should be flush with the end of the hub. The compound will provide a permanent attachment between the two parts. It will also serve as a seal preventing grease from escaping except through the bore of sleeve bearing (F).

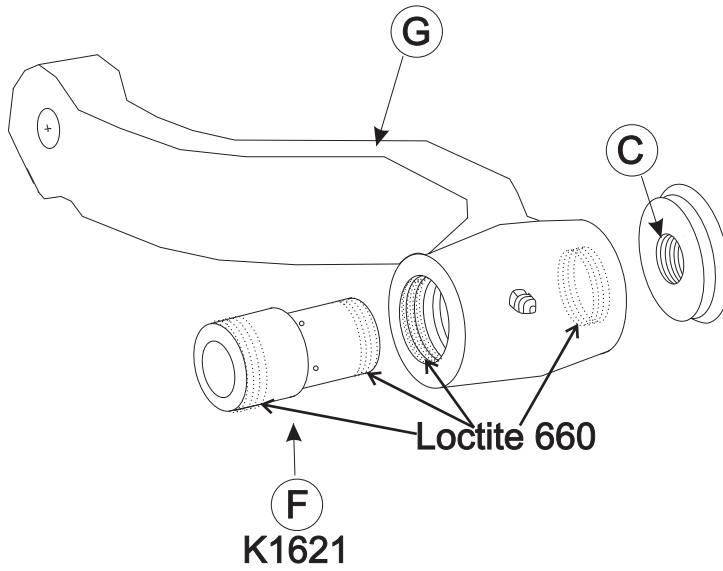
A welding magnet can be used to hold the sleeve bearing during the installation process.

Loctite 660 will fixture in approximately 20 minutes. It will fully cure in 24 hours.

INSTALL PIVOT SHAFTS

3. Install a grade 8, 5/8" nut (B) onto a grade 8, 5/8"x 1-1/2" capscrew (E). Leave a small gap of approximately one thread between the nut and capscrew head. Before installing the nut, oil the bolt threads in the area that the nut will be placed. Do not oil the remaining threads. Place heat treated flat washer (BB) on capscrew (E). Screw capscrew (E) into pivot shaft assembly (D) until washer (BB) is held against pivot shaft. Apply Loctite 271 (Threadlocker) or equivalent to the external and internal threads as indicated. The threads must be clean and dry before application. Install pivot shaft assembly (D) into tapped hole (C). Using a socket that engages both the head of the capscrew (E) and the nut (B) torque to 175 ft-lbs. **Do not use impact wrench.**
4. With the socket engaging the capscrew head only, tighten capscrew (C) while loosening nut (B) with a 15/16" wrench. Remove capscrew with nut and washer (BB). Wipe oil from end of pivot shaft (D).





INSTALL ARMS

5. **Install locknut (J) flush with outer end of adjusting sleeve (K).** Install one disc spring (L), and tab washer (M) onto sleeve.
5. Install cap screw (P) through shim (?), adjusting sleeve (K), and remaining parts as shown and into pivot pin (D). Lubricate adjusting washers (K1019) with a light coating of oil. **Torque cap screw to 200 ft. lbs. The arm should still be loose.**
6. Tighten locknut (J) to increase the disc spring pressure on the hub of the arm to the point that when the wheel is raised it will just stay up. It should take a small force to push the wheel down. Do not over-tighten. Keep the wheel high enough that it does not interfere with the opener disk bearing housing.
7. The pressure should be just high enough that when the wheel is turned by hand the opener disks will also turn. When you are planting, the ground load will cause the opener disk to flex inward slightly and the tire outward

slightly. Whatever pressure between the tire and disk that you establish it will be reduced when you are planting.

8. Become familiar with the above settings by turning, pulling, raising and lowering the wheel. **Disc spring pressure must be maintained.** Generally once a season is adequate for checking.

TO REMOVE AN OPENER DISK:

9. Remove gauge wheel (W). Back cap screw (P) out approximately 5 turns so that the arm can be pulled outward to allow removal of the opener disk.
10. Grease until grease appears at both ends of the hub. We recommend greasing daily but longer intervals are probably acceptable. You will have to determine the correct interval for your conditions. Removing and inspecting one arm after a 50 hour interval should be informative.

