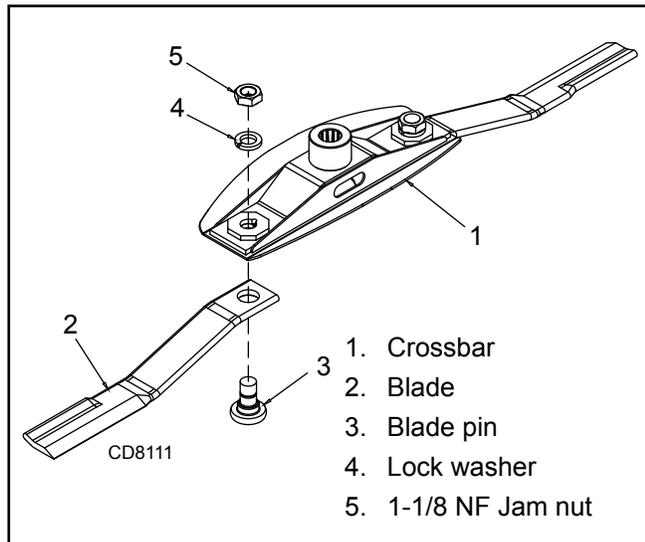


## CROSSBAR REMOVAL

1. It is necessary to gain access to bottom side of cutter for crossbar removal. See **OWNER SERVICE**, page 18.

**NOTE:** You will need to use either the puller screw (Item 6, Figure 16) or a small hydraulic jack to remove the crossbar.

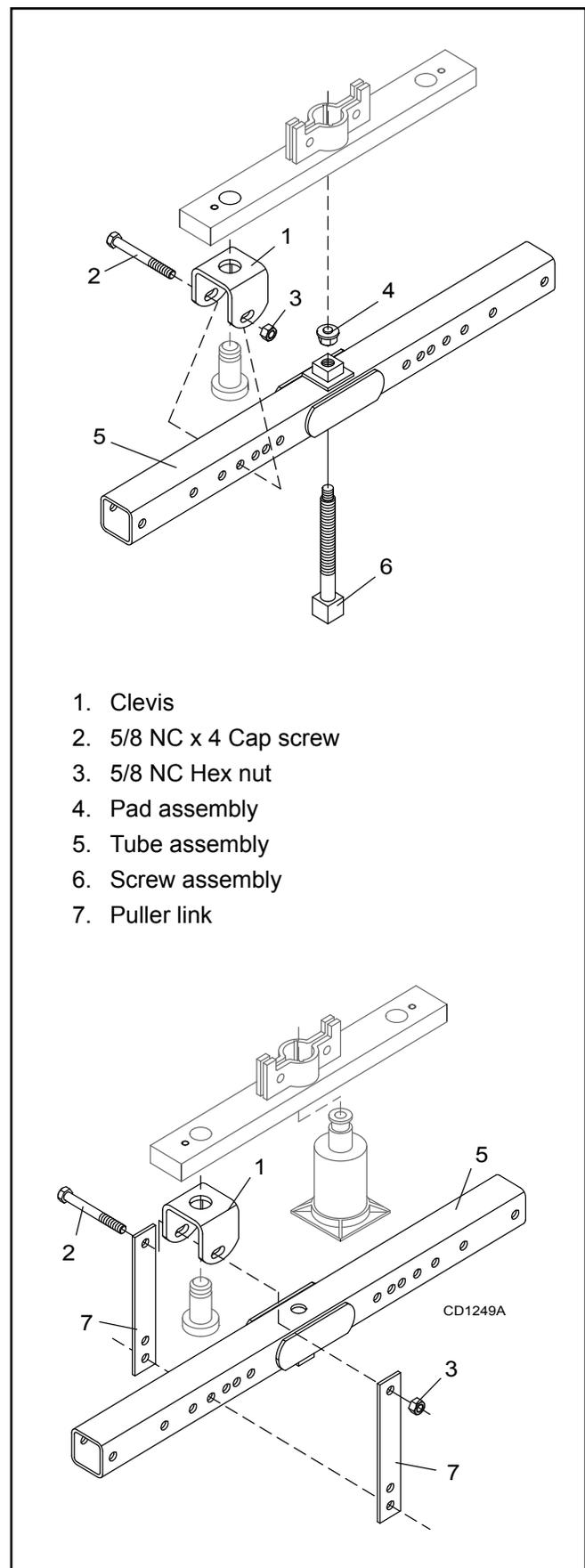
2. To make crossbar removal easier, remove blades as shown in Figure 17.



**Figure 17.** Blade Removal

3. Remove cotter pin and castle nut from bottom of crossbar, Figure 18.
4. Attach a clevis (1) to each end of crossbar, using blade pins, spacers, keyhole plates, and blade pin clips.
5. Position tube assembly (5) with threaded nut toward crossbar for puller screw removal or down for hydraulic jack removal.
6. For removal with puller screw, attach tube (5) to each clevis with bolts (2) and nuts (3). Place pad (4) in nut and thread puller screw (6) into nut from bottom. Tighten until pad is solid against gearbox shaft. For best results, strike head of puller screw with a hammer while tightening with a wrench.
7. For removal with a jack, attach tube to each clevis with puller links (7), bolts (2), and nuts (3). Place jack on tube with end of jack pressing against gearbox shaft. Slowly apply force with jack.

**NOTE:** Hydraulic jack will not operate if tipped more than 90-degrees. Use care to prevent bending crossbar during removal.



**Figure 18.** Crossbar Removal

## CROSSBAR INSTALLATION

1. Using emery cloth (220 or finer), remove surface rust, Loctite® and foreign material from hub, splined gearbox, vertical shaft, and crossbar as shown in Figure 19.

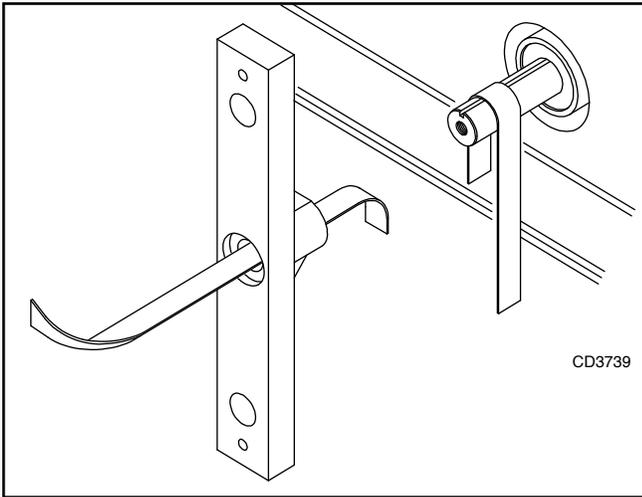


Figure 19.

2. Install crossbar (2) on splined shaft. Install castle nut and cotter pin. Torque nut to 200 lbs-ft
3. Install the blades using existing hardware. Torque blade pin nut to 450 lbs-ft.

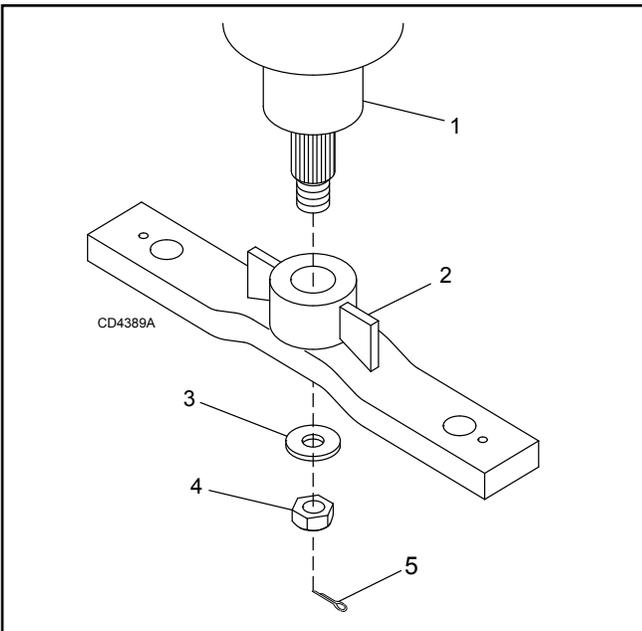


Figure 20.

## UNIVERSAL JOINT REPAIR

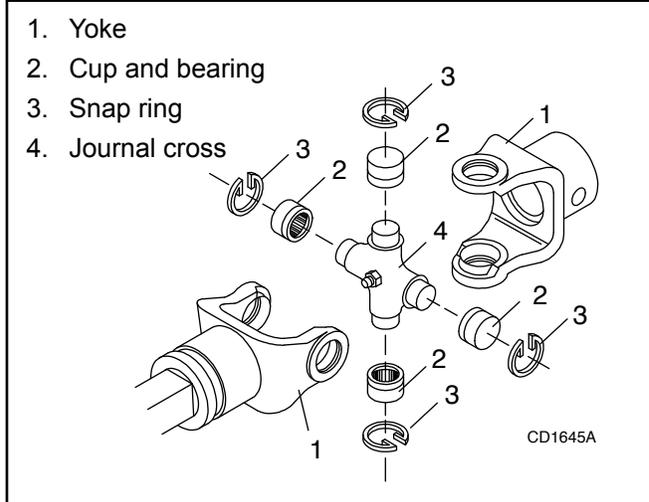


Figure 21. Universal Joint Parts Breakdown

### U-Joint Disassembly

1. Remove external snap rings from yokes in four locations as shown in Figure 22.

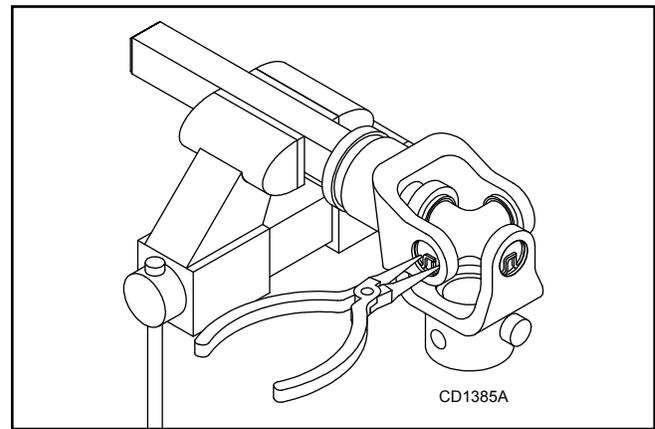


Figure 22. Remove Snap Ring

2. With snap rings removed, support drive in vise, hold yoke in hand and tap on yoke to drive cup up out of yoke. See Figure 23.

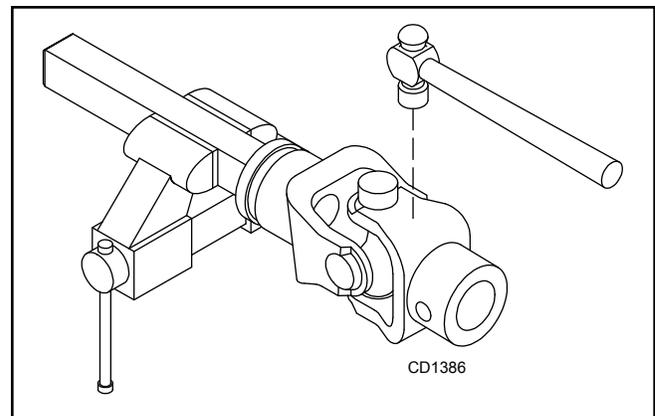


Figure 23. Remove Cups