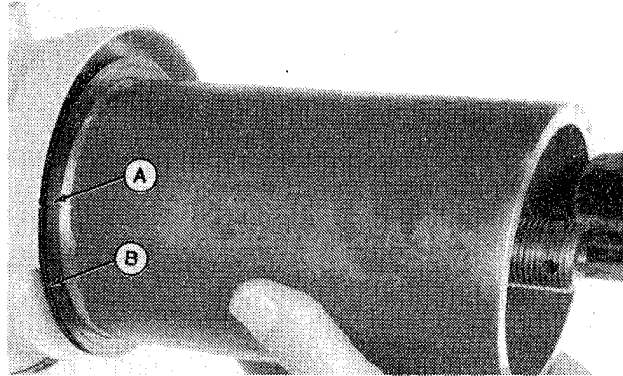


## Non-Powered Wheel Axles/Spindle and Knuckle Assembly

5. Install seal (A) using a 2.510 in. I.D. x 2.750 O.D. x 0.120 wall round mechanical tubing 6 in. long. Install seal tight against its shoulder with flat side of seal against driver.

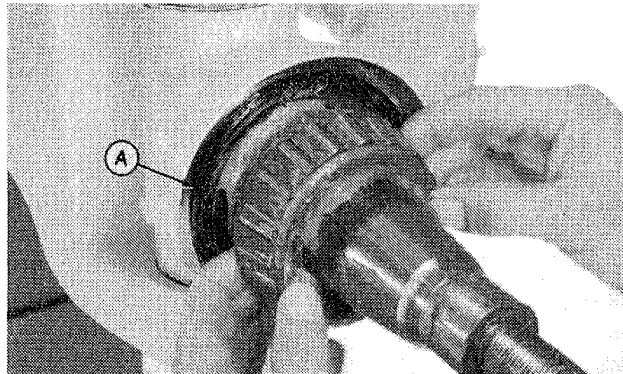
6. Put multi-purpose grease on lips (B) of seal.



8AG;T91833 T47;0230 J14 280186

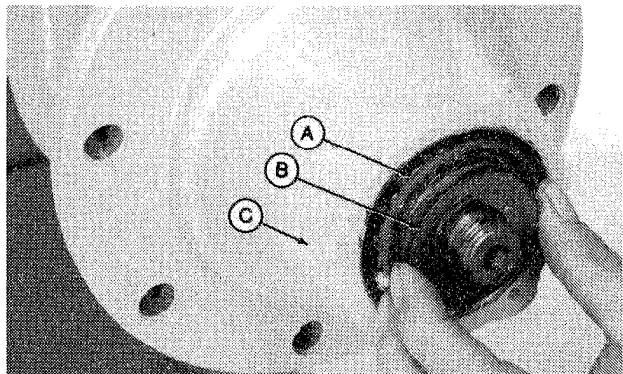
7. Install inner bearing cone.

8. Put multi-purpose grease in space between bearing cone and seal (A) until space is full.



8AG;T91814 T47;0230 109 160583

9. Install hub (C), bearing cone (A), and washer (B).



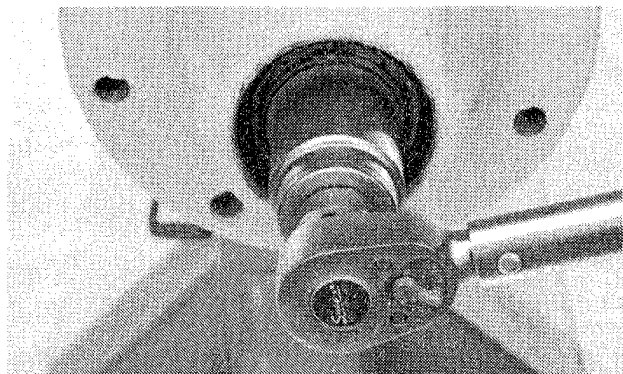
8AG;T91813 T47;0230 110 160583

### ADJUST WHEEL HUB BEARINGS

1. Install and tighten slotted nut to 47 N·m (35 lb-ft).

2. Turn hub several times and tighten nut again to 47 N·m (35 lb-ft).

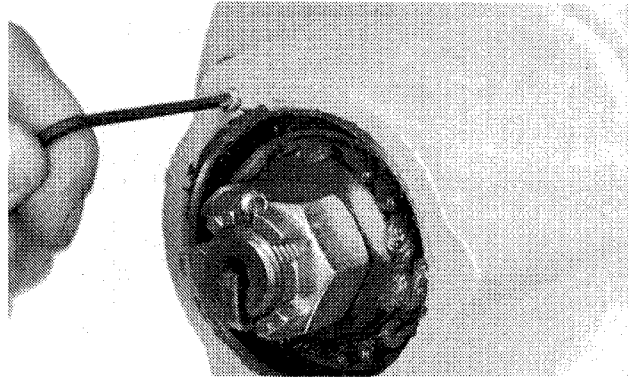
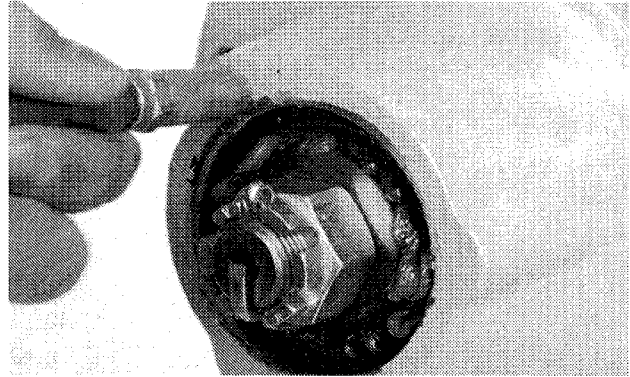
3. Loosen nut just enough to install cotter pin. If hole in knuckle is aligned with slot in nut when nut is tightened to 47 N·m (35 lb-ft), loosen nut one slot and install cotter pin.



8AG;T91834 T47;0230 111 160583

### CONTINUE TO INSTALL HUB ASSEMBLY

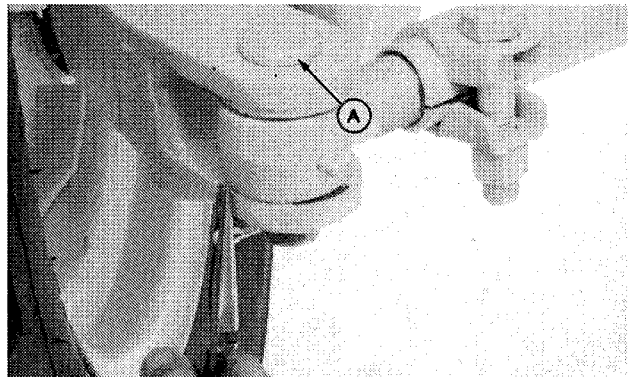
1. Remove set screw and install a grease fitting.
2. Put multi-purpose grease into hub until the grease begins to come through outer bearing cone.
3. Remove grease fitting and install set screw.
4. Install cap.



8AG;T91835, T91836 T47;0230 112 160583

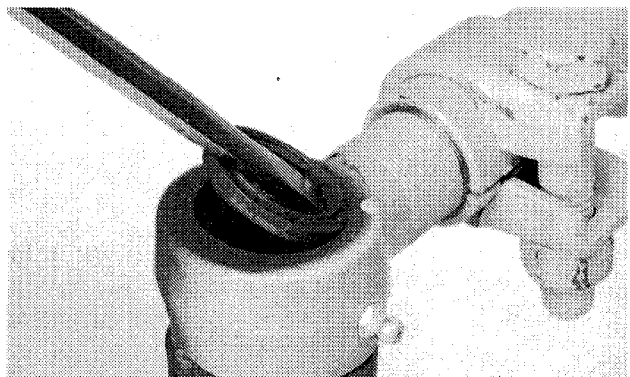
### REMOVE TIE ROD

1. Remove cotter pin.
2. Remove pin (A).



8AG;T91839 T47;0230 C4 250985

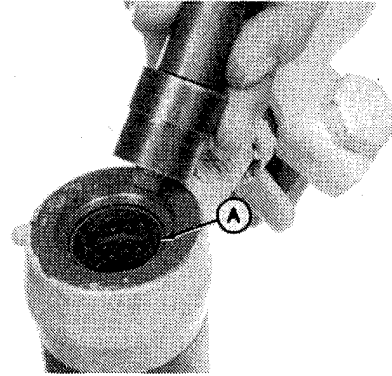
3. Remove seal.



8AG;T91842 T47;0230 116 160583

*Non-Powered Wheel Axles/Spindle and Knuckle Assembly*

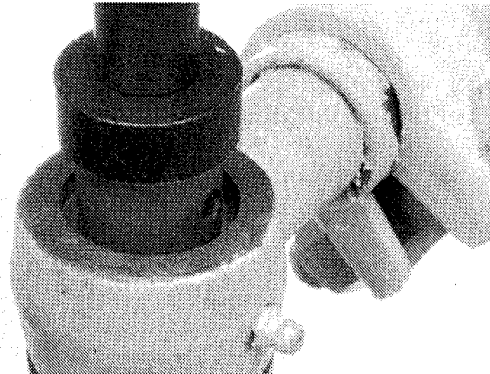
4. Remove bushing (A) using 28 and 25 mm disk.



8AG;T91843 T47;0230 117 280186

**INSTALL TIE ROD**

1. Install new bushing using 34 and 25 mm disks.



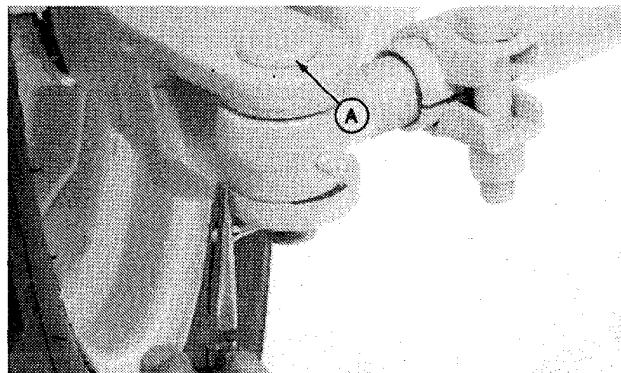
8AG;T91844 T47;0230 118 281086

2. Install new seal using 34 and 25 mm disks.



8AG;T91845 T47;0230 119 280186

3. Install pin (A) and cotter pin.



8AG;T91839 T47;0230 C5 250985

## REMOVE NON-POWERED FRONT AXLE

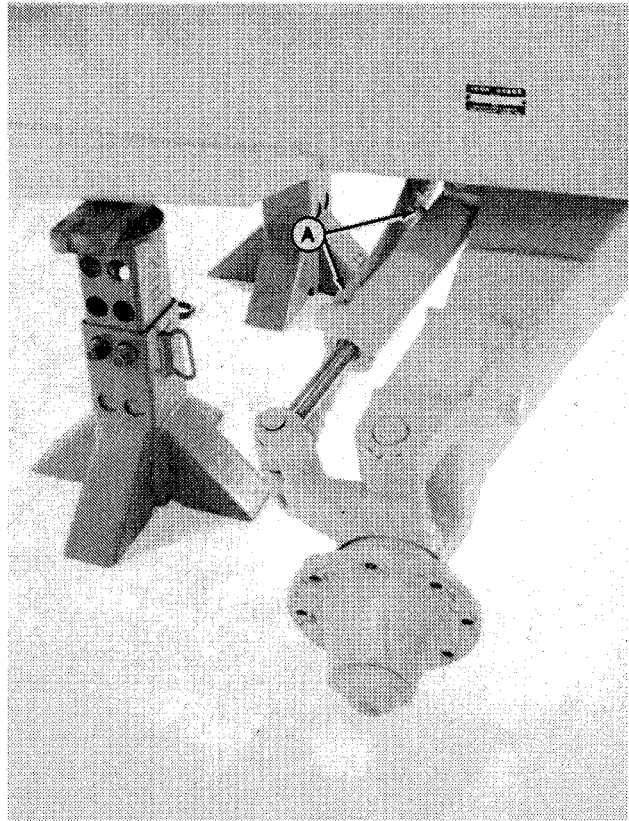
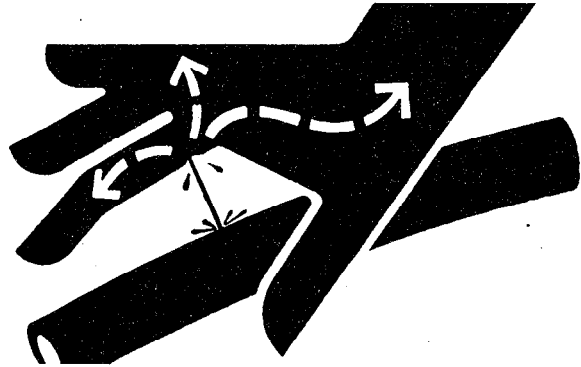
1. Raise loader and install boom lock bar.
2. Remove counterweights if equipped.
3. Remove both front wheels. (See Remove Front Wheel Assembly in Group 0120.)
4. Install two floor stands with wooden blocks under main frame.



**CAUTION:** Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. Do not use your hand.

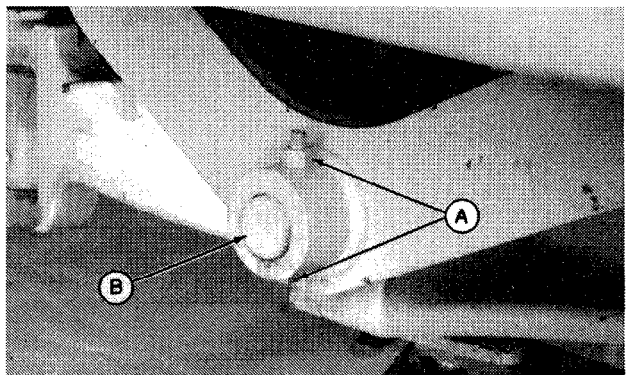
If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.

5. Operate all hydraulic control valves to release pressure in hydraulic system.
6. Disconnect lines (A). Cap and plug all openings to prevent dirt from entering the hydraulic system.



AB6;X9811 8AG;T91850 T47;0230 C6 240286

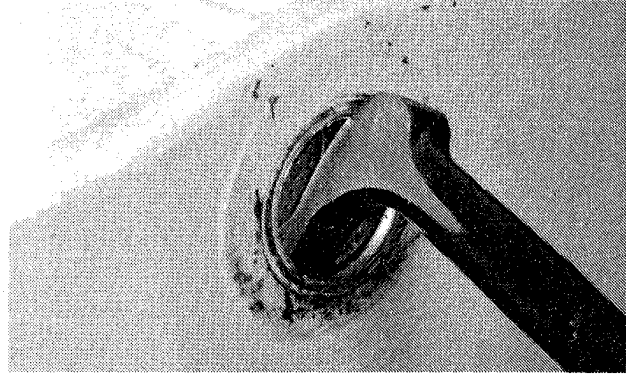
7. Place a scissers or service jack under axle.
8. Remove nut and cap screw (A).
9. Remove grease fittings from rear of pin (B). Remove pin to remove axle.



8AG;T6195AD T47;0230 C7 250985

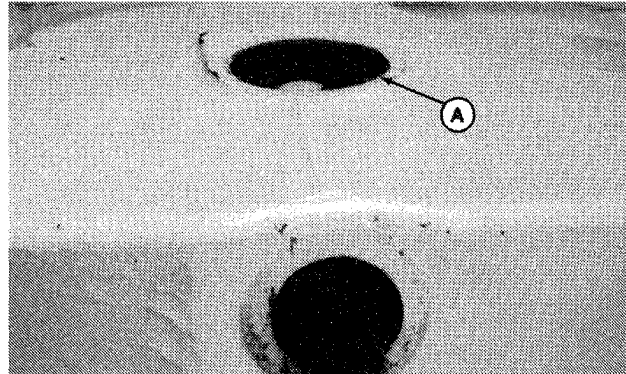
## REMOVE AND INSTALL AXLE BUSHINGS

1. Remove both seals.



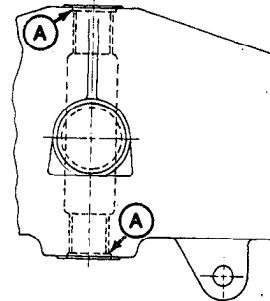
8AG;T91853 T47;0230 C8 250985

2. Remove top plug from hole (A).
3. Remove pivot bushings by driving outward through hole (A) or with chisel.
4. Clean bushing bores and new bushings. Surfaces must be free of grease, oil, dirt or paint.



8AG;T91854 T47;0230 C9 290886

5. Apply Retaining Compound to outside surface of new bushings. Install new bushings using 44 mm and 54 mm disks. Install new bushings flush to 0.8 mm (0.03 in.) recessed from edge of seal shoulder (A).

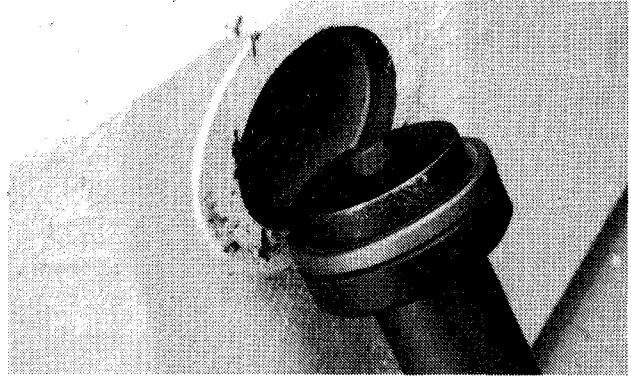


8AG;T91855, T91856 T47;0230 127 280186

## Non-Powered Wheel Axles/Spindle and Knuckle Assembly

6. Install new seals using 44 mm and 54 mm disks. Install new seals tight against bushings with sealing lips facing driver.

7. Install plug in top of axle.



8AG;T91857 T47;0230 C10 250985

### INSTALL NON-POWERED FRONT AXLE

1. Position front axle. Install as many shims as will fit between axle and support.

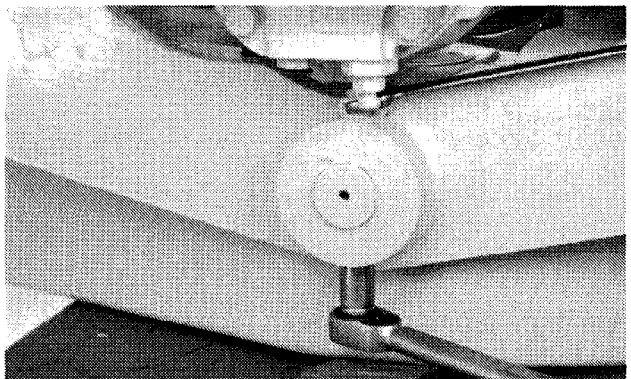
2. Install pin and cap screw. Tighten cap screw.

3. Measure the amount of play between axle and support. Add or subtract shims to get 0.00 to 1.50 mm (0.00 to 0.06 in.) end play.



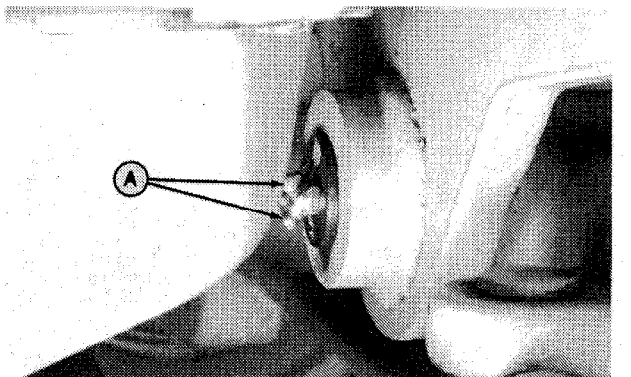
8AG;T91859 T47;0230 130 231085

4. Tighten cap screw to 121 N·m (89 lb-ft).



8AG;T6195AG T47;0230 131 160583

5. Install and tighten grease fittings (A). Apply recommended grease to fittings.



8AG;T6195AG T47;0230 C11 250985



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**first, and then click the above link**

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