

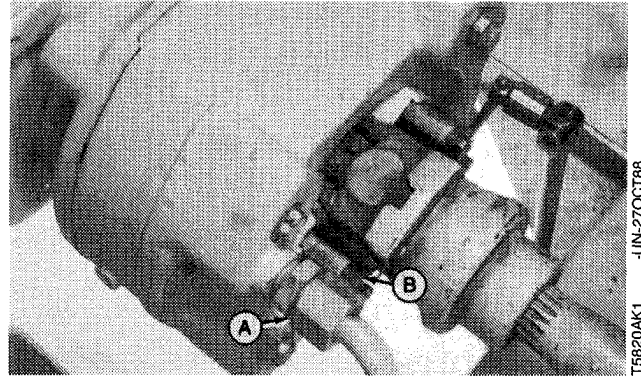
**CAUTION:** Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury may call the Deere & Company Medical Department in Moline, Illinois, or other knowledgeable medical source.

*NOTE: Fuel tank was removed for clarity of photograph.*

8. Disconnect park brake hydraulic line (A). Close all openings with caps and plugs.

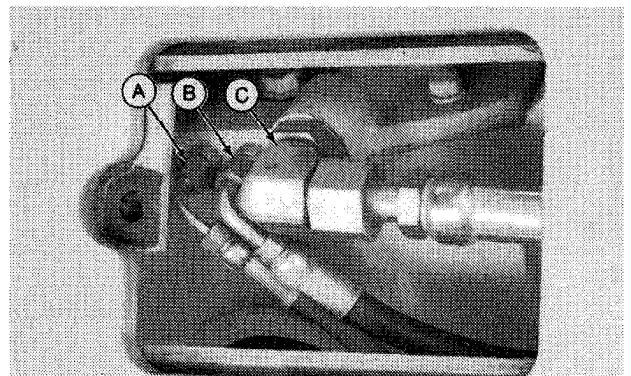
9. Remove four special cap screws (B) to disconnect rear differential drive line.



T47,0200,108 -19-11JUL90

10. Disconnect lines (A, B, and C).

- A—Intake Manifold Line (Turbocharger)
- B—Differential Lock Valve Line
- C—Differential Lock Return-to-Reduction Gear Housing Line (640D), Differential Lock Return-to-Reservoir Line (648D)

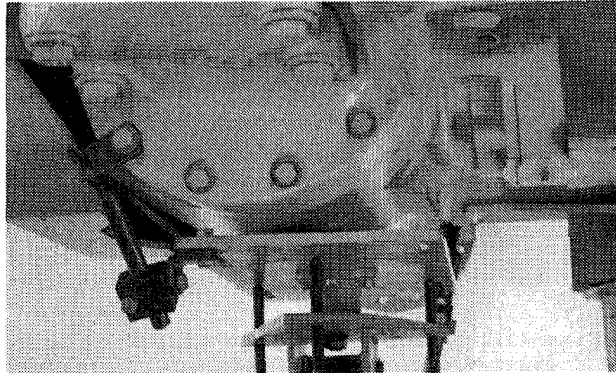


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**CAUTION:** Approximate weight of differential with axles and parking brake is 795 kg (1750 lb).

11. Install a suitable service jack under differential section.

12. Remove four cap screws and nuts from each side of axle and carefully remove differential.



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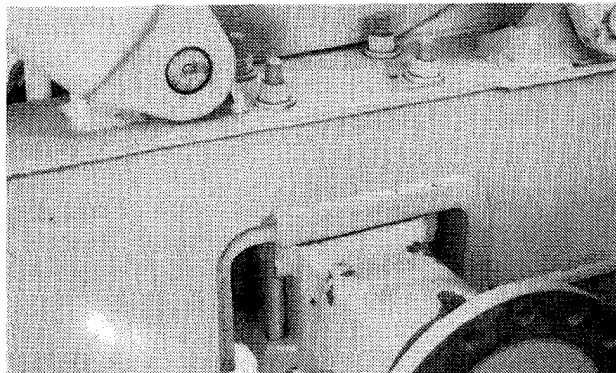
T5936AD -UN-27OCT88

### INSTALL REAR DIFFERENTIAL AND AXLE ASSEMBLY

1. Carefully install differential with axles.

**IMPORTANT:** "Snug" all nuts on a side then tighten nuts on other side to specification.

2. Install cap screws (A) and nuts. Tighten nuts to 908 N·m (670 lb-ft).

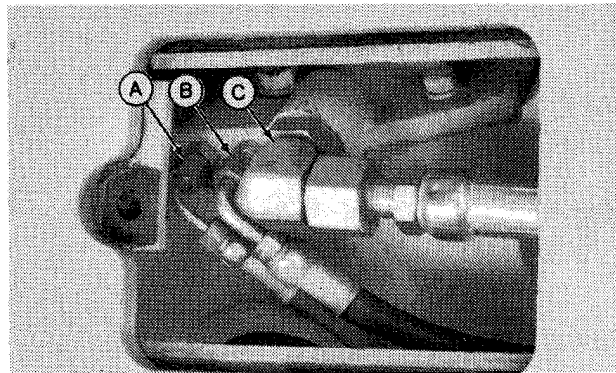


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T5939AE -UN-27OCT88

3. Connect lines (A, B, and C).

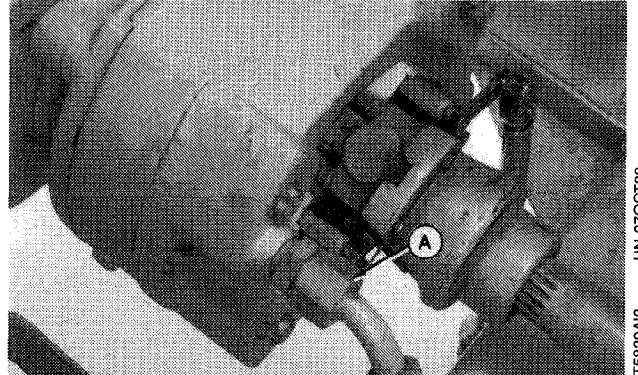
- A—Intake Manifold Line (Turbocharger)
- B—Differential Lock Valve Line
- C—Differential Lock Return-to-Reduction Gear Housing Line (640D), Differential Lock Return-to-Reservoir Line (648D)



T47,0200,147 -19-03JUL90

T5936AC -UN-27OCT88

4. Connect line (A).
5. Connect drive line. Apply high strength thread lock sealer to threads of cap screws. Install and tighten cap screws to 129 N·m (95 lb-ft).
6. Install equipment frame bottom guard and cap screws. Tighten cap screws to 407 N·m (300 lb-ft).
7. Connect battery ground cable.
8. Fill differential with recommended oil (Section I, Group IV). Oil capacity is approximately 17 L (4.5 gal).



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### REMOVE AND DISASSEMBLE FRONT DIFFERENTIAL OSCILLATING SUPPORT

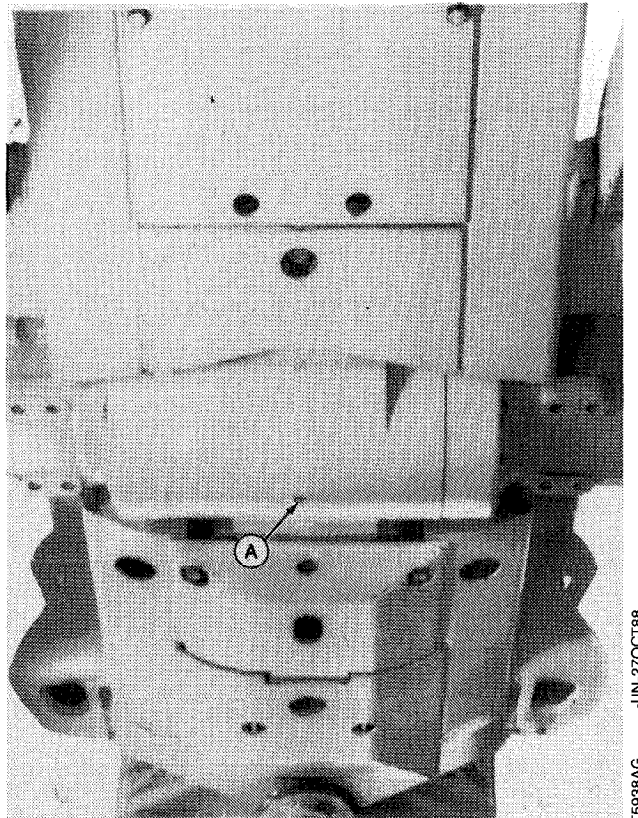
1. Install frame locking bar.
2. Put a DO NOT operate tag on steering wheel.
3. Remove drain plug (A). Drain oil and install plug. Hydraulic oil capacity is approximately 17 L (4.5 gal).

**⚠ CAUTION: The approximate weights of engine frame bottom guards are:**

Front Guard ..... 129 kg (285 lb)  
Rear Guard ..... 23 kg (50 lb)

Weight may increase due to the buildup of mud and debris.

4. Remove front and rear engine frame bottom guards.

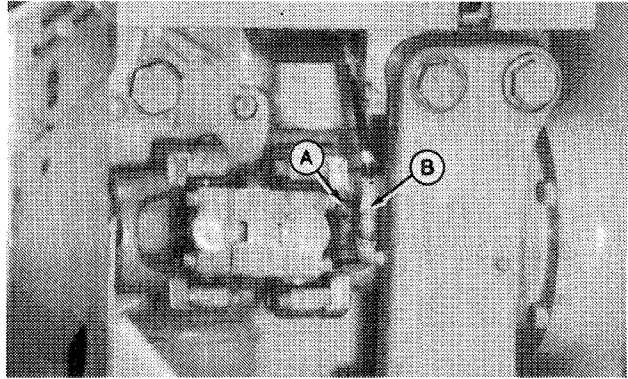


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## Removal and Installation/Oscillating Support

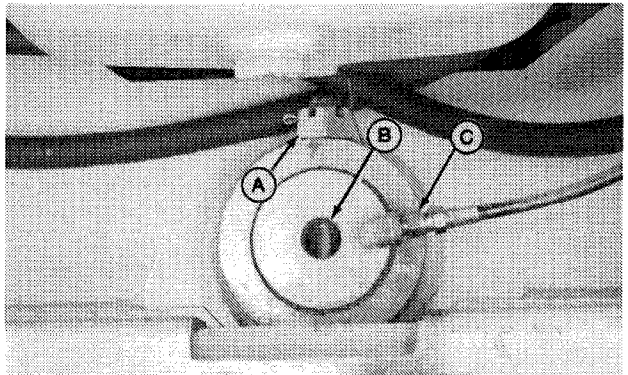
5. Disconnect line (B).
6. Remove drive shaft.
7. Make a mark so yoke-to-input shaft nut can be installed in exact spot on shaft. Remove cotter pin to loosen nut (A).
8. Raise unit just enough to allow oscillating support dowels to clear frame. Install two floor stands under frame and a service jack under differential.



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T5876AF -JUN-27OCT88

9. Operate control valves to release pressure in hydraulic system. Operate park brake and brake valves to release pressure in accumulator.
10. Disconnect battery ground cable.
11. Disconnect line (C).
12. Remove cotter pin and nut (A) to remove cap screw.
13. Install cap screw or a slide hammer in hole in pin (B) and remove pin.

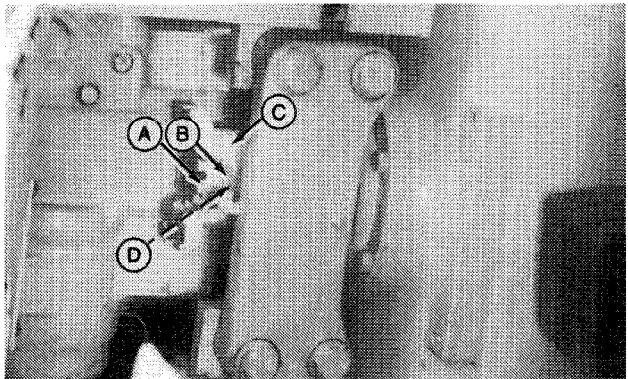


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T5895AB -JUN-27OCT88

14. Remove nut (A), washer (B), O-ring (D), and yoke (C).
15. Remove four support to frame cap screws.

A—Nut  
B—Washer  
C—Yoke  
D—O-Ring



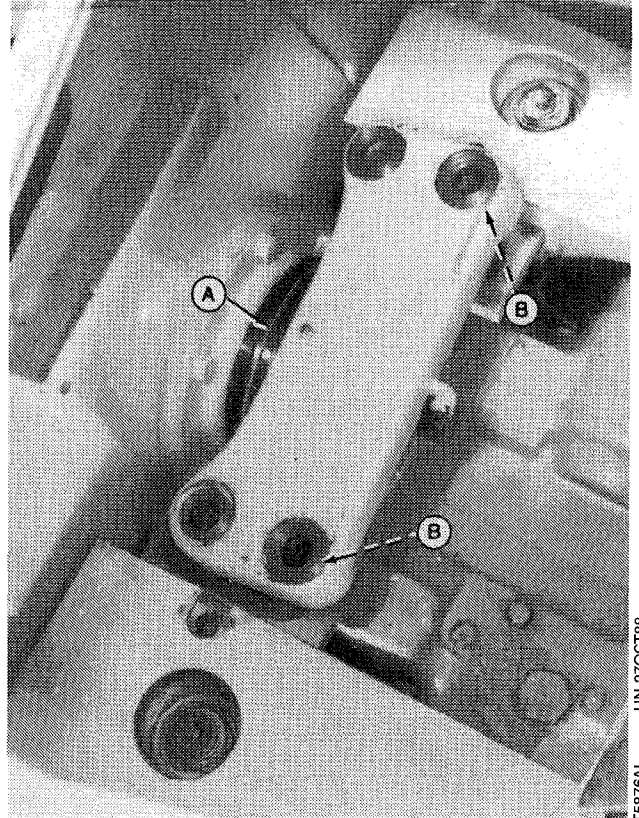
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*Removal and Installation/Oscillating Support*

16. Lower differential just enough to allow clearance for support dowels (B).

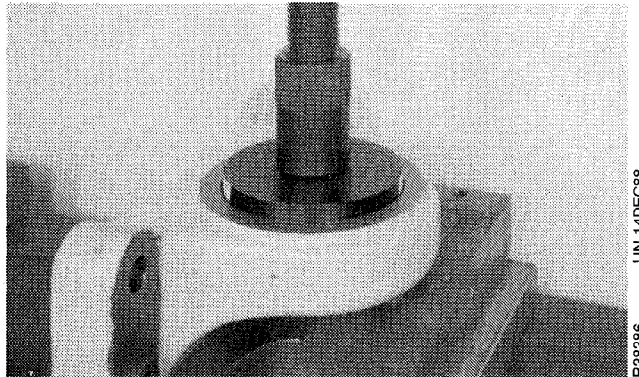
17. Remove support and thrust washer (A).



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18. Remove bushing using 135 mm disk or JDG92 Bearing Cup Installer.

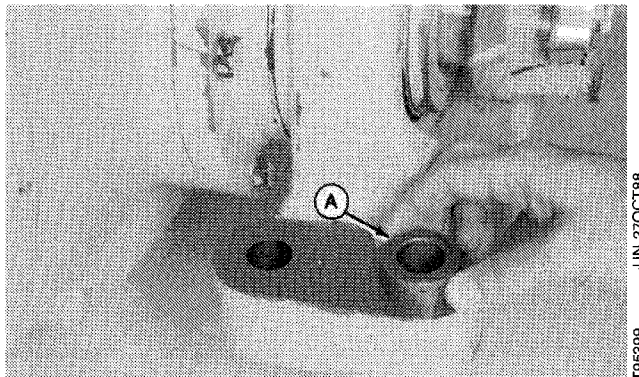


R38866 -JUN-14DEC88

*Early Units Shown*

T47,0200,117 -19-14MAY88

19. Inspect dowels (A) for looseness or damage.



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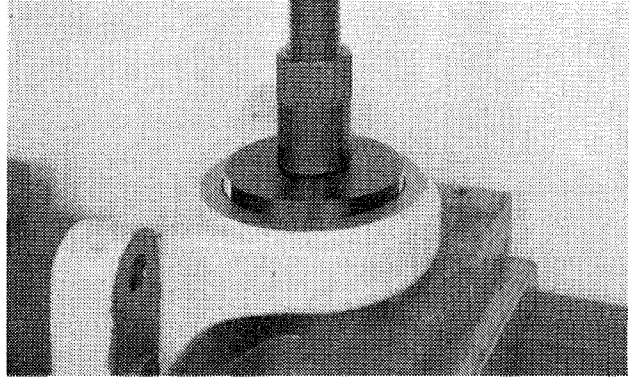
T47,0200,118 -19-12JUN84



### ASSEMBLE AND INSTALL FRONT DIFFERENTIAL OSCILLATING SUPPORT

1. Install new dowels, if necessary.
2. For early units, install new bushing using 135 mm disk or JDG92 Bearing Cup Installer.

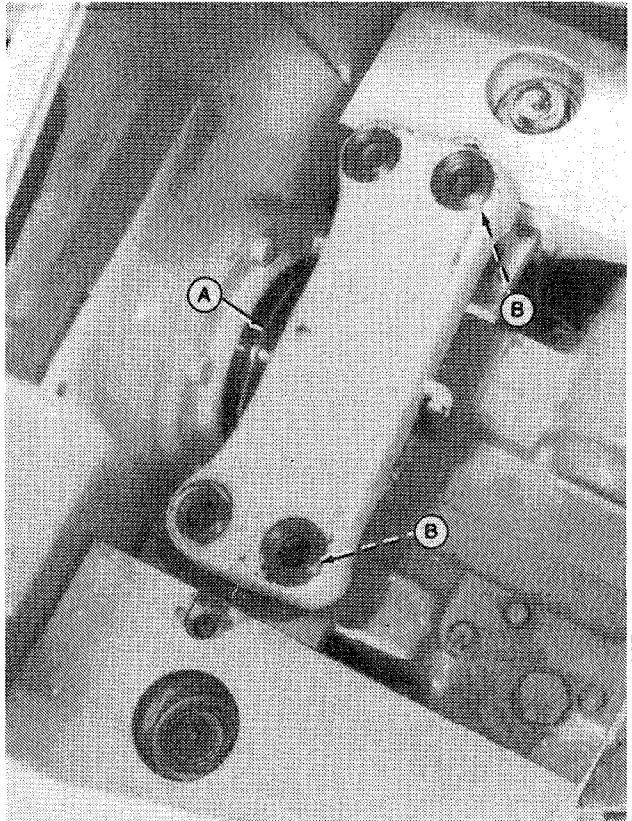
For later units, install bushing even with thrust washer contact surfaces. (See procedure in Group 0210 for installation of V-ring seals.)



R38386 -UN-14DEC88

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3. Install thrust washer (A) and support with dowels (B).
4. Carefully raise differential into position. Make sure front pivot pin hole in differential case is aligned with pivot pin hole in engine frame.
5. Install and tighten four support to frame cap screws to approximately 136 N·m (100 lb-ft).
6. Apply NEVER-SEEZ lubricant or equivalent to pin and pin bore in frame.



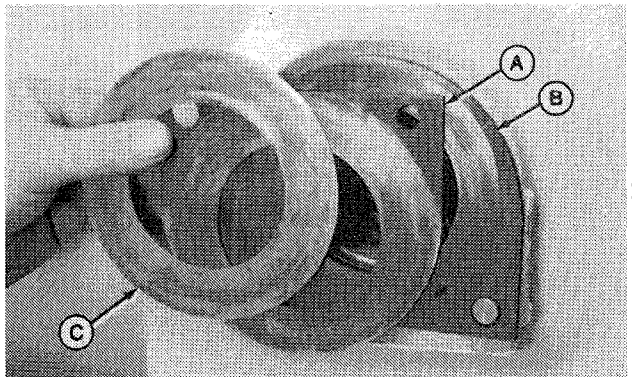
T5876A1 -UN-27OCT88

T47,0200,120 -19-11JUL90

7. Apply NEVER-SEEZ lubricant or equivalent to thrust plates, if removed.
8. Check to be sure thrust plates (A and B) and washer (C) are installed correctly.

*NOTE: Differential shown removed for clarity of photograph.*

9. Install front pivot pin; care must be taken not to damage grease seal in differential case.



T5872AV -UN-27OCT88

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10. Move differential rearward as far as possible, using a pry bar.

11. Measure differential end play using a feeler gauge. Adjust end play by adding or removing shims between frame and first thrust plate.

**END PLAY SPECIFICATIONS**

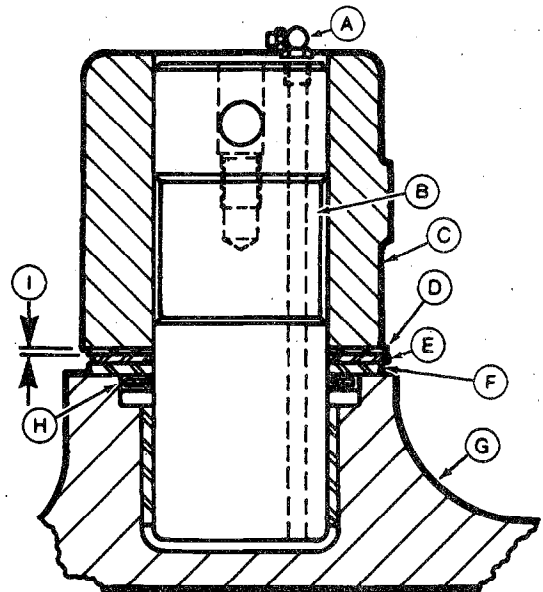
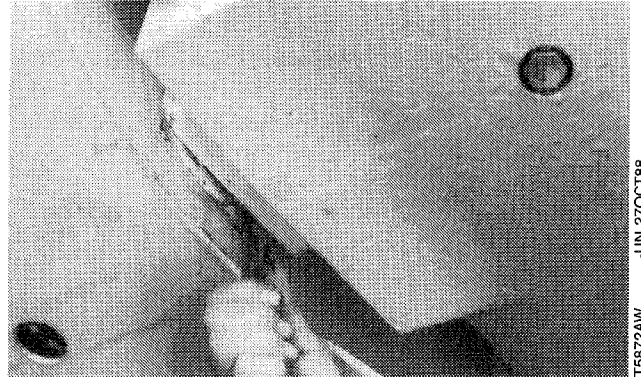
End play ..... 0.03—0.56 mm  
(0.001—0.022 in.)

12. A force of 667 N (150 lb) maximum, measured at the axle flange without tires or rims must move the front differential assembly freely. If a force of more than 667 N (150 lb) is required, do end play adjustment again.

13. Tighten oscillating support cap screws to 929 N·m (685 lb-ft). Connect grease line.

14. Install and tighten front pivot pin cap screw.

- |  |                                   |
|--|-----------------------------------|
| A—Grease Fitting                         | E—Rear Thrust Plate               |
| B—Pin                                    | F—Front Thrust Plate              |
| C—Oscillating Differential Front Support | G—Differential Case               |
| D—Special Washer and Shims (as required) | H—Grease Seal                     |
|  | I—End play                        |
|  | 0.03—0.56 mm<br>(0.001—0.022 in.) |

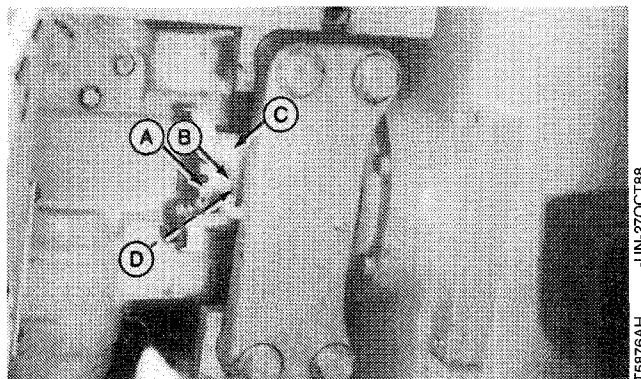


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15. Install yoke (C), O-ring (D), washer (B), and nut (A). Tighten nut until it is the same position that it was before being removed. With nut in this position it must be tightened to 305—407 N·m (225—300 lb-ft).

16. Install cotter pin. DO NOT bend ends of pin over end of shaft; bend ends of cotter pin against flats of nut.

- |          |          |
|----------|----------|
| A—Nut    | C—Yoke   |
| B—Washer | D—O-Ring |



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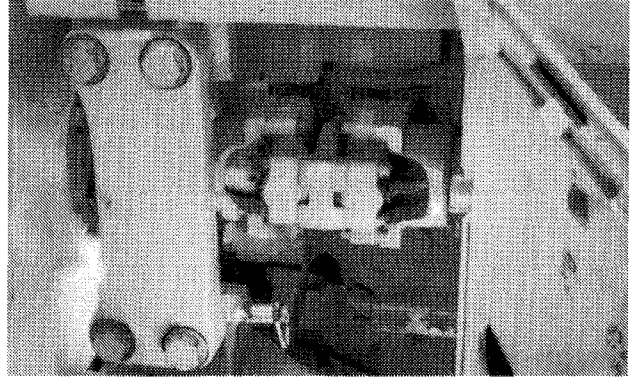


*Removal and Installation/Oscillating Support*

17. Install differential drive shaft. Install and tighten special cap screws to 95 N·m (70 lb-ft) using a 406 mm (16 in.) torque wrench and JD292 Torque Converter Box Wrench. If special tool JD292 is not used, tighten cap screws to 129 N·m.

18. Install engine frame bottom guards. Tighten cap screws to 230 N·m (170 lb-ft).

19. Fill differential with recommended oil (See Section I, Group IV). Oil capacity is approximately 17 L (4.5 gal).



T47,0200,124 -19-26MAY88