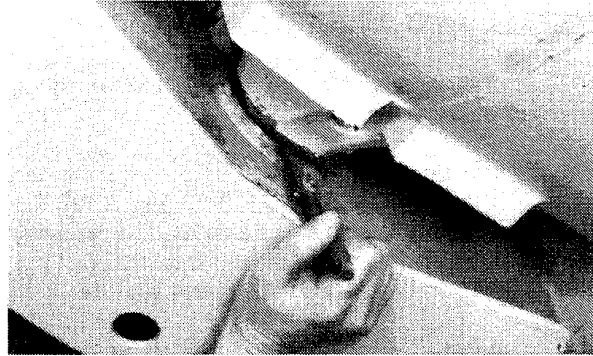


## Removal and Installation

10. Force assembly rearward as far as possible using a prybar.

11. Measure front differential end play using a feeler gauge. Adjust end play to 0.03—0.91 mm (0.001—0.036 in.) by adding or deducting shims.

12. A force of 223 N (50 lb) maximum, measured at the axle flange without tires or rims, must move the front differential assembly freely. If a force of more than 223 N (50 lb) is required to move differential, readjust end play.



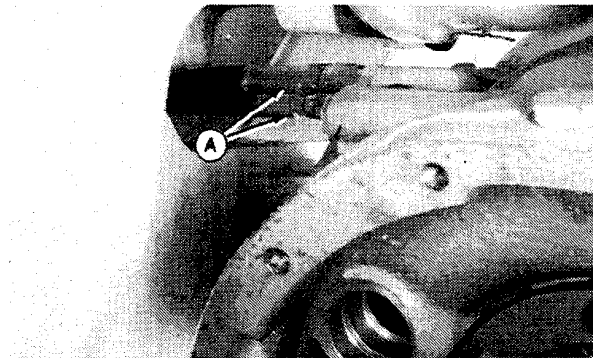
5AG;T95405 T47;0200 55 100588

13. To provide clearance to connect differential lock lines (A), raise right side of assembly and put a support stand under axle housing.

*NOTE: Axle housings removed for clarity of photograph.*

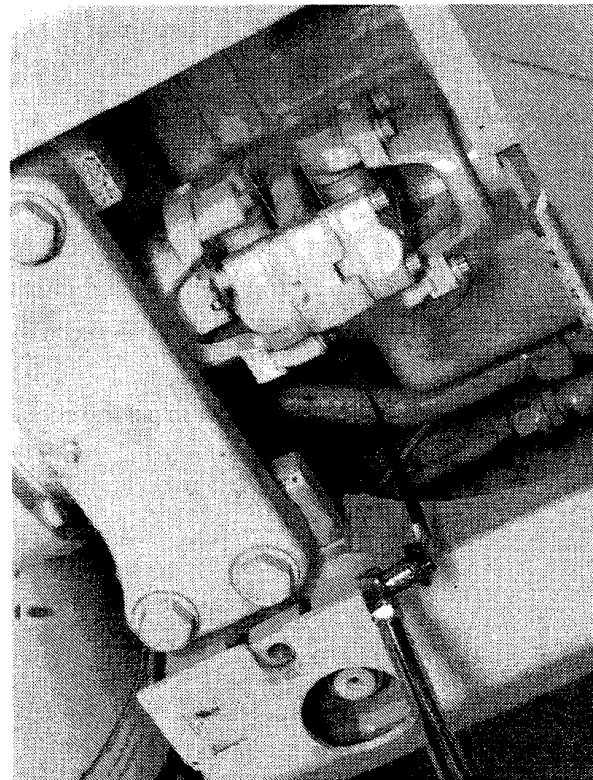
14. Connect differential lock lines.

15. Remove supports from under right axle.



5AG;T95394 T47;0200 58 110488

16. Connect front differential drive line. Install and tighten four 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 special cap screws to 129 N·m (95 lb-ft).



5AG;T95406 T47;0200 59 110488

## Removal and Installation

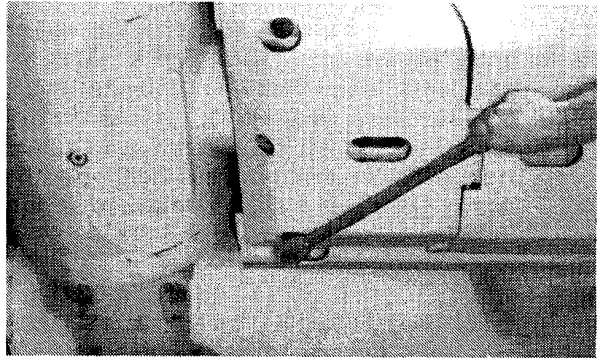
17. Install engine frame front and rear bottom guard. Install and tighten cap screws to 230 N·m (170 lb-ft).

18. Fill differential with the recommended oil (Section I, Group IV). Oil capacity is approximately 34 L (9 gal).

19. Install wheels. (See Group 0110.)

20. Remove floor stands and lower unit.

21. Remove lock bars. Connect battery.



5AG;T95391 T47;0200 60 110488

### REMOVE REAR DIFFERENTIAL AND AXLE ASSEMBLY

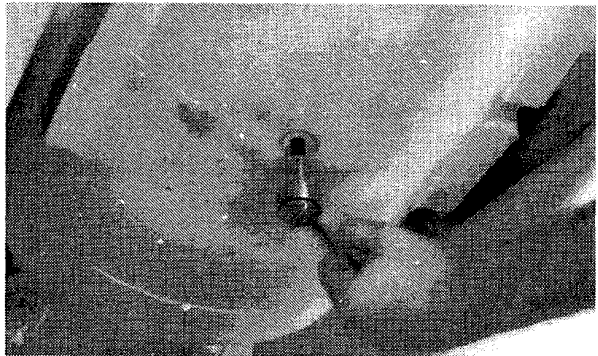
*NOTE: An alternate method of removal is to disconnect axle housings from equipment frame, lift equipment frame, and roll assembly out from under frame.*

1. Steer rear equipment frame fully to the right, and install lock bar between engine frame and equipment frame.

2. Disconnect battery ground strap.

3. Operate control levers to release pressure in the hydraulic system. Pump the brake pedal to discharge brake accumulator.

4. Remove drain plug. Drain oil, and install plug. Hydraulic oil capacity is approximately 34 L (9 gal).



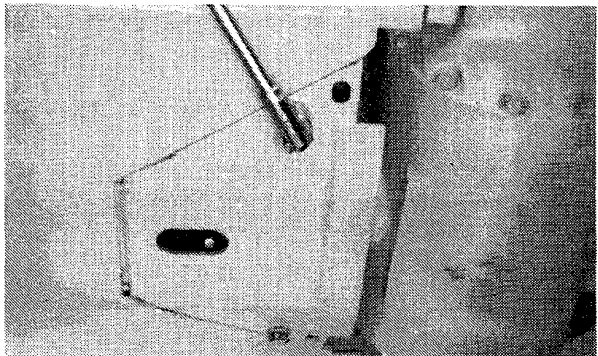
5AG;T95407 T47;0200 62 110488

*NOTE: The bottom of frame must be approximately 457 mm (18 in.) plus the lowered height of service jack used.*

5. Raise unit. Install two 20-ton floor stands.

6. Remove wheels. (See Group 0110).

7. Remove equipment frame bottom guard.

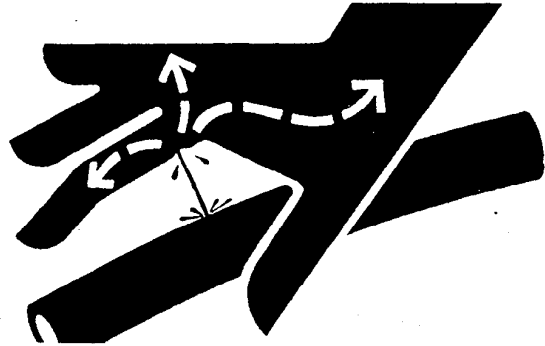


5AG;T95408 T47;0200 63 110488

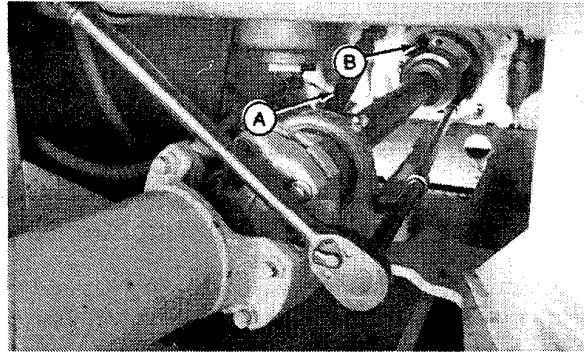


**CAUTION:** Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a 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.



8. Disconnect hydraulic line (A).
9. Close opening with a cap or plug.
10. Remove four special cap screws (B) to disconnect rear differential drive line.



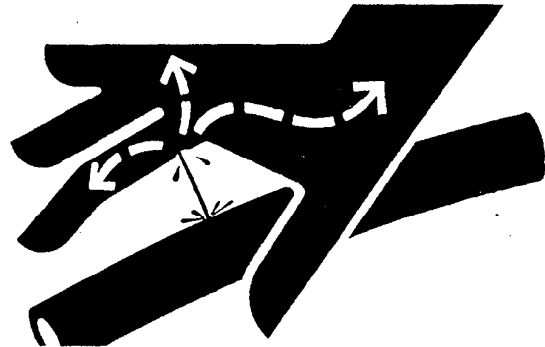
5AG;X9811, T95409 T47;0200 64 141083

11. Remove access cover (448D shown).

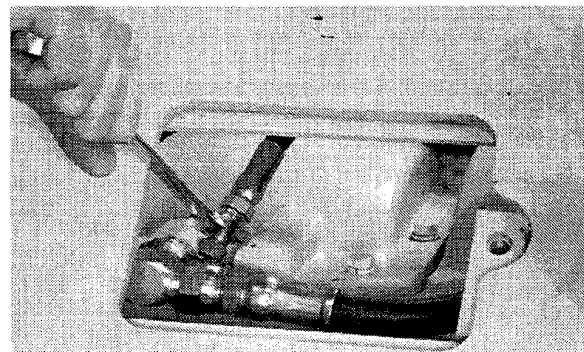


**CAUTION:** Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a 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.



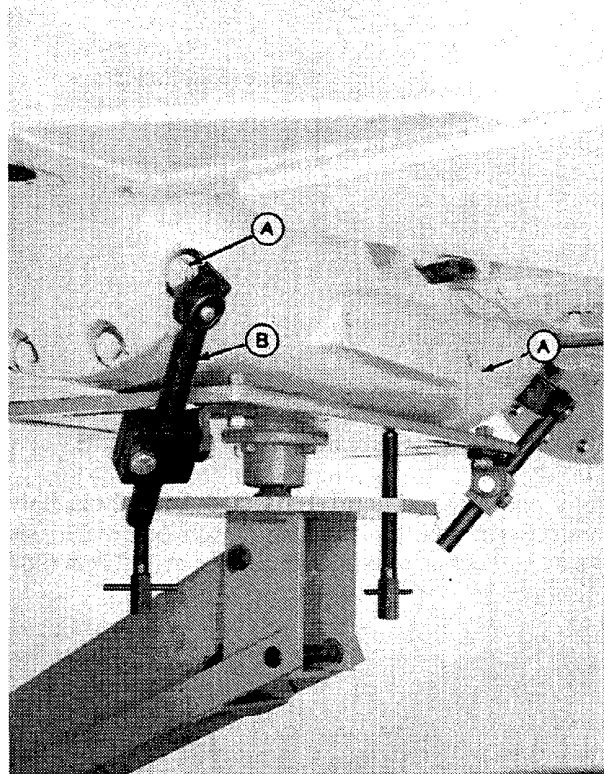
12. Disconnect differential lock hydraulic lines (448D shown).
13. Close all openings with caps and plugs to keep dirt out of the hydraulic system.



5AG;X9811, T95411 T47;0200 66 110488

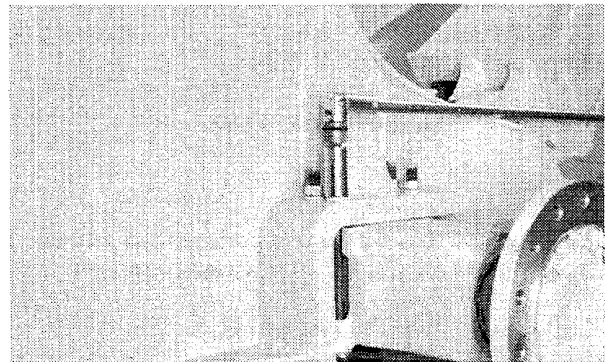
**⚠ CAUTION: The approximate weight of rear differential and axle assembly is 544 kg (1200 lb).**

14. Install a low lift transmission jack under differential section. Remove one axle cap screw from each side and install two mounting arms (B). Install and tighten cap screws (A).



5AG;T95412 T47;0200 67 100588

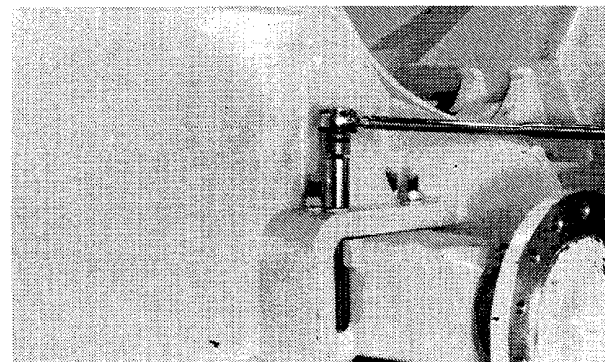
15. Remove four cap screws and nuts from each side. Carefully lower assembly from unit.



5AG;T95413 T47;0200 68 110488

### INSTALL REAR DIFFERENTIAL AND AXLE ASSEMBLY

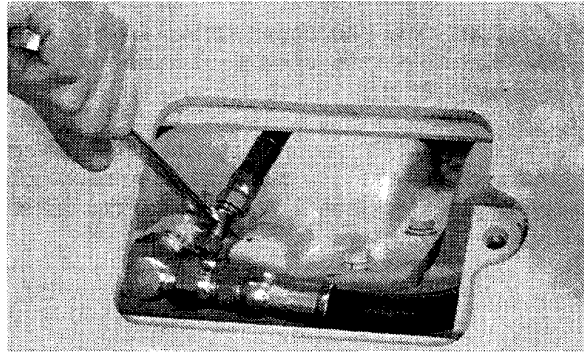
1. Carefully raise differential and axle assembly into position under frame.
2. Install four cap screws with washers and nuts. Tighten nuts to 576 N·m (425 lb-ft).
3. Remove low lift transmission jack and mounting arms.



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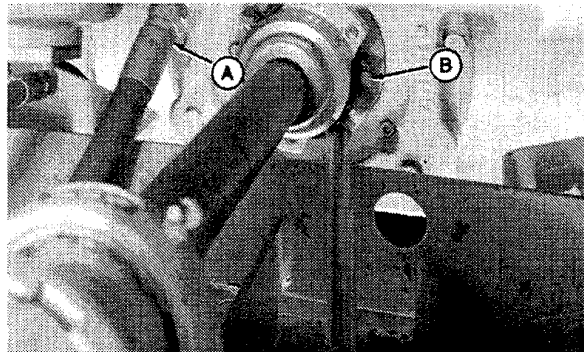
*Removal and Installation*

4. Connect differential lock hydraulic lines (448D shown).
5. Install access cover. Install and tighten cap screw.



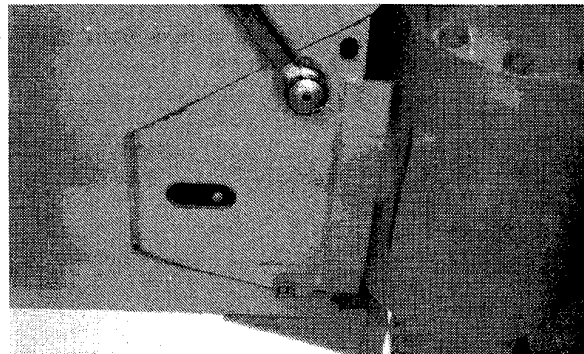
5AG;T95411 T47;0200 70 110488

6. Connect hydraulic line (A).
7. Connect rear differential drive line. Apply thread lock and sealer (high strength) to special cap screw (B) threads. Install and tighten special cap screws to 129 N·m (95 lb-ft).



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8. Install equipment frame bottom guard. Install and tighten cap screws to 407 N·m (300 lb-ft).
9. Install wheels. (See Group 0110).
10. Lower unit.
11. Fill differential with the recommended oil (Section I, Group IV). Oil capacity is approximately 34 L (9 gal).
12. Connect battery ground strap.
13. Remove lock bar from between engine frame and equipment frame.



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