

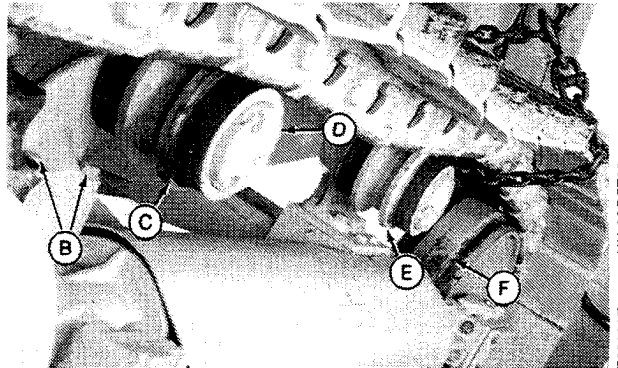
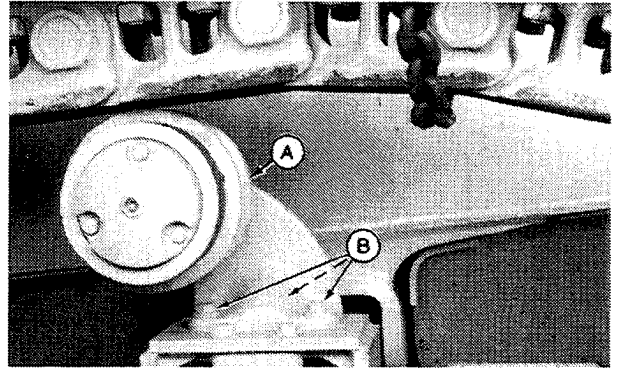
**REMOVE AND INSTALL CARRIER ROLLER**

**⚠ CAUTION:** Grease in track adjustment cylinder is under high pressure. Slowly loosen check valve fitting to release grease from track tension adjuster.

1. Slowly turn check valve fitting counterclockwise one turn to release track tension. (See Adjust Track Sag in this group.)
2. Raise and support track chain using a chain and hoist.

**⚠ CAUTION:** The approximate weight of carrier roller is 40 kg (90 lb).

3. Remove cap screws (B) to remove front (A) or rear (D) carrier rollers.
4. Install carrier roller, washers, and tighten cap screws (B) to 325 N·m (240 lb-ft).
5. If front carrier roller was removed, stretch a string from rear carrier roller flange outside edge (C) to idler flange outside edge (F).
6. Loosen front carrier roller to support cap screws (B) and slide roller in or out until front carrier roller flange outer edge (E) is aligned with string.
7. Make sure center line of roller is perpendicular to track chain and tighten cap screws to 325 N·m (240 lb-ft).
8. Lower track and remove chain.
9. Adjust track tension. (See Adjust Track Sag procedure in this group.)

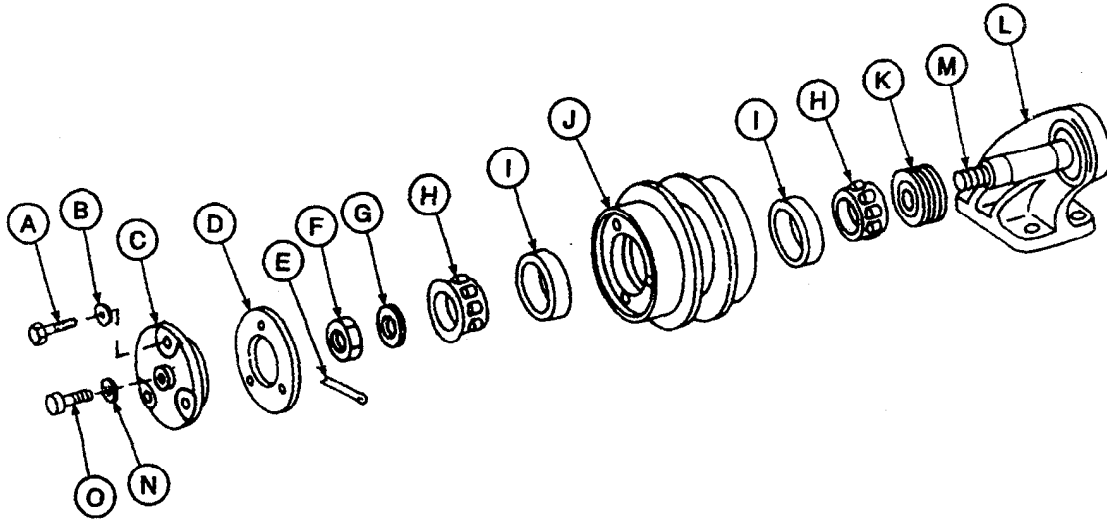


A—Front Carrier Roller  
 B—Cap Screw (8 used)  
 C—Rear Carrier Flange Outer Edge  
 D—Rear Carrier Roller  
 E—Rear Carrier Roller Flange Outer Edge  
 F—Idler Flange Outer Edge

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**DISASSEMBLE AND ASSEMBLE CARRIER ROLLER**

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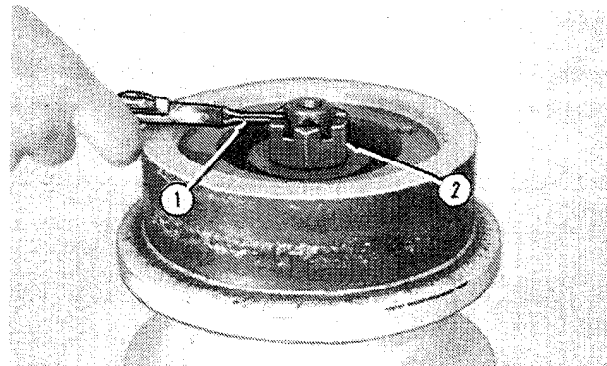
T8040AH (C)

- |                        |                         |                        |           |
|------------------------|-------------------------|------------------------|-----------|
| A—Cap Screw (3 used)   | E—Cotter Pin            | I—Bearing Cup (2 used) | M—Shaft   |
| B—Lock Washer (3 used) | F—Nut                   | J—Roller               | N—O-Ring  |
| C—Cover                | G—Washer                | K—Seal Kit             | O—Fitting |
| D—Gasket               | H—Bearing Cone (2 used) | L—Roller Support       |           |

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T8040AH -JUN-27AUG93

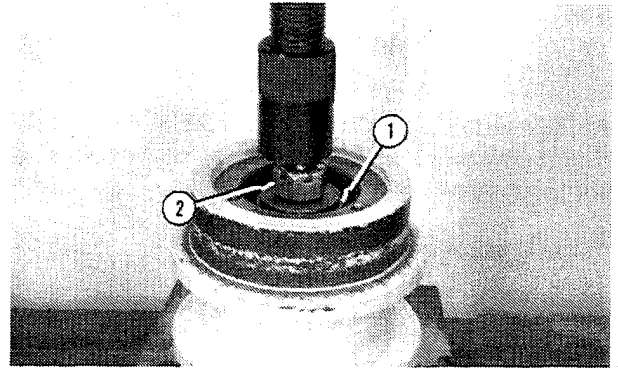
1. Remove three cap screws to remove cover, and gasket.
2. Remove cotter pin (1) to loosen nut (2). Do not remove nut at this time.



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3. Press bearing cone (1) from support bracket.
4. Remove nut (2), washer, and roller shell.
5. Inspect roller shell for grooved, burred or galled condition. Replace parts if necessary.



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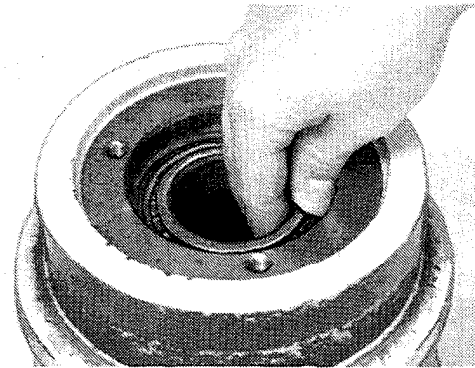
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6. Remove bearing cones and wash in volatile mineral spirits.

*NOTE: Never dry bearings using compressed air. Do not rotate bearings while they are not lubricated.*

7. Apply same type of oil used in roller to bearings.

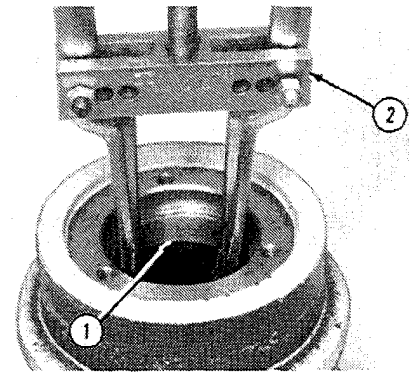
8. Inspect bearings for roughness of rotation, scratched, pitted, scored, cracked or chipped races, and indications of excessive wear. Replace if necessary.



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9. Inspect bearing cup (1) for being pitted, scratched, cracked or chipped. Replace if necessary. Remove cup using a two-jaw puller (2).



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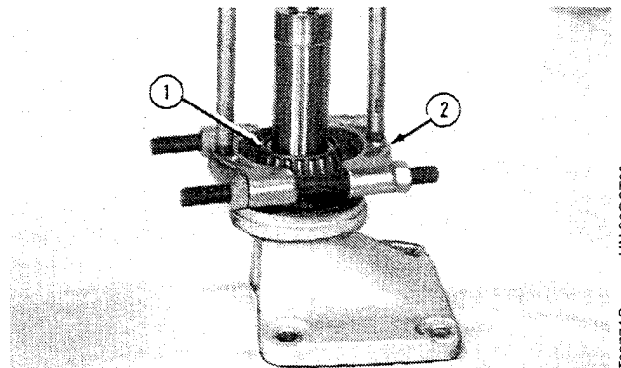
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10. Remove bearing cone (1) using bearing puller attachment (2). Inspect and replace if necessary.

*NOTE: Metal face seals are matched sets. Seals are not interchangeable with other seals.*

11. Remove and inspect metal face seals. (See Inspect Metal Face Seals in this Group.)

12. Replace parts as necessary.



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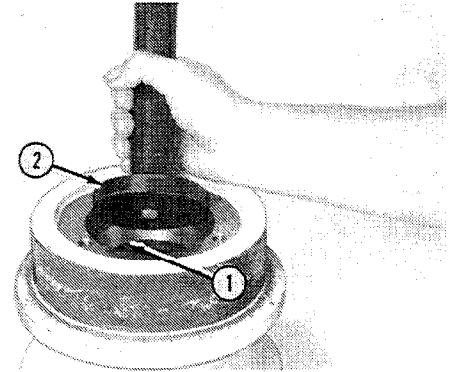
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13. Push bearing cups (1) to bottom of bore using a 81 mm disk.

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14. Thoroughly clean the seal cavities in roller shell using a volatile, non-petroleum base type solvent. Make sure they are dry and free of oil.

15. Install bearing cone in roller shell.



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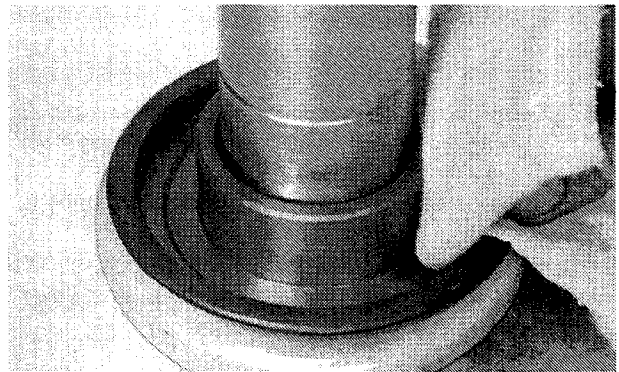
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-UN-26OCT88

16. Thoroughly clean the seal cavity in the support bracket using volatile, non-petroleum base type solvent. Make sure they are dry and oil free.

17. Dry cavity using a lint-free tissue.

If new seals are used, go to step 18.

If new rubber seals and used metal seal rings are used, go to step 22.



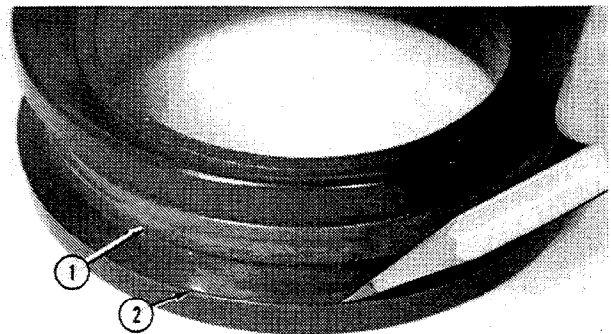
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**IMPORTANT: DO NOT remove plastic retainer band (1) from new seal before installation.**

18. Find the side of seal that has a retainer lip (2) on the rubber seals.

19. Use the lint-free tissue furnished in new seal package to remove all traces of oil or grease from all surfaces.



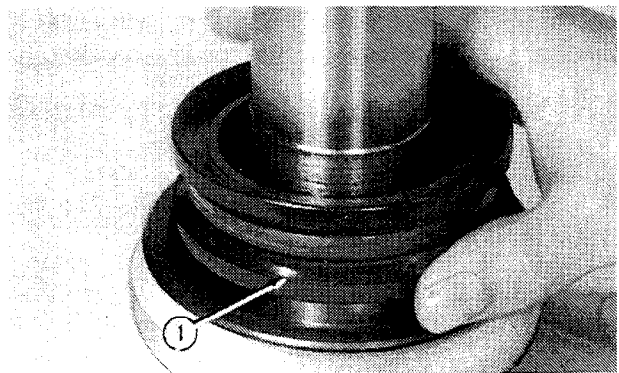
TX,0130,DU1311 -19-11AUG93

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20. Install metal face seal, with retainer lip (1), first, into the seal bore of support bracket.

21. Make sure the seal is seated on bottom of bore and sits straight.

Go to Step 26.

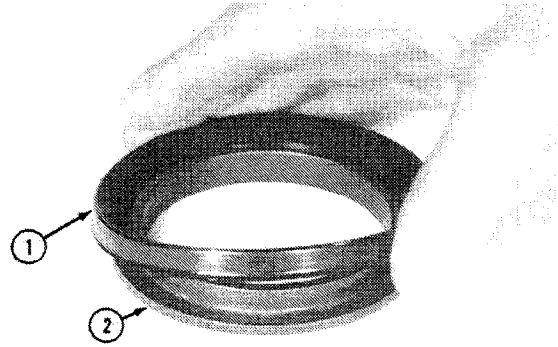


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22. Clean metal seal rings (2) in a volatile non-petroleum base type solvent and wipe dry with lint-free tissue.

23. Install new rubber seals (1) onto the metal seal rings. Make sure the rubber seal is tight and straight against the metal seal ring shoulder flange. Make sure the rubber seals are free of oil.



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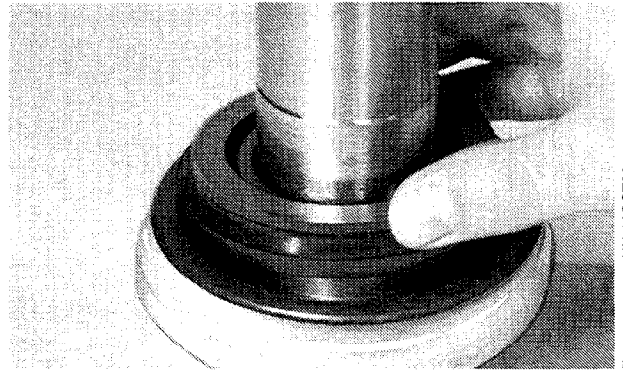
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**IMPORTANT: The new rubber seal must have a retainer lip to hold the seal half in the bore before the seal is compressed.**

24. Install metal face seal half, with retainer lip first, into the seal bore in the support bracket.

25. Make sure the seal is tight against seal bore and sits straight.



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26. Install metal face seal half, with retainer lip first, into the seal bore in the roller shell.

27. Make sure the seal is tight against seal bore and sits straight.

28. Wipe both metal seal ring faces dry with a lint-free tissue.

29. Apply a thin film of oil, as used in the roller, to the shiny sealing area on both metal seal rings.

30. Make sure the rubber seals are free of oil.

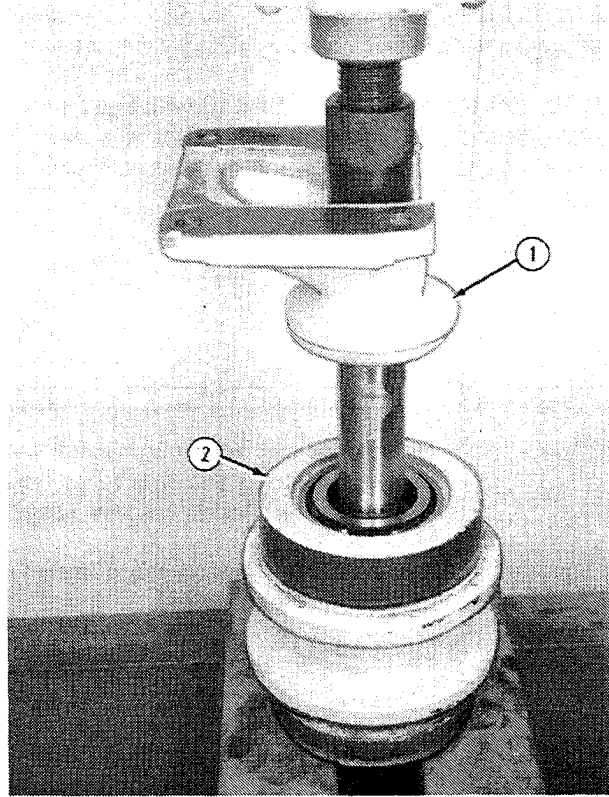


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**IMPORTANT:** Hold the support bracket (1) to prevent it from falling when the shaft of the support bracket is pressed below the bearing cone.

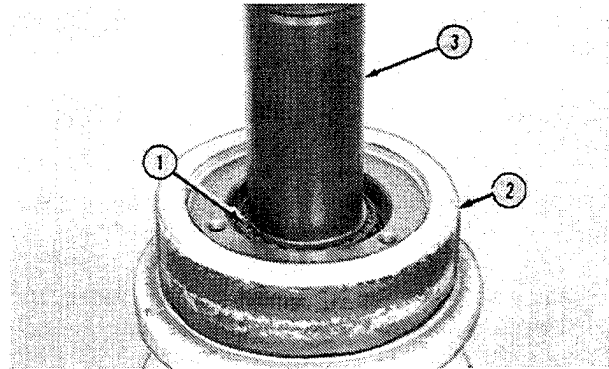
31. Install support bracket into roller shell (2) using a press.



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32. Install bearing cone (1) into the roller shell (2) using a JD357 Driver (3) and press. DO NOT press bearing tight against cup.

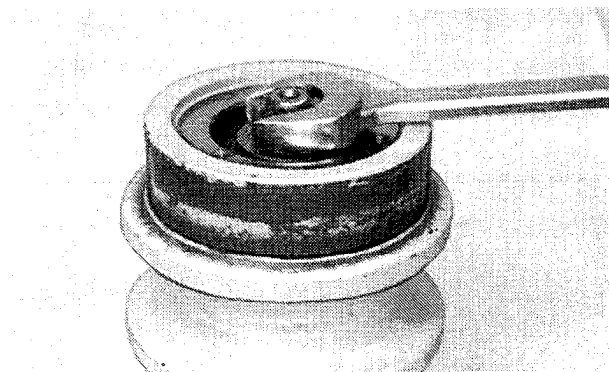


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33. Install washer.

34. Install nut and tighten slightly.



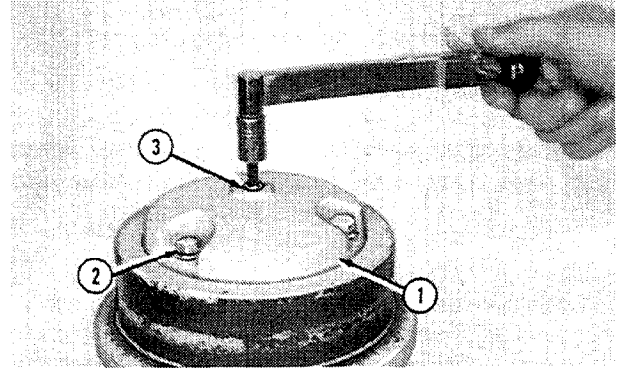
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35. Install cover (1) and cap screws (2).

36. Measure rolling drag torque using fill plug (3) as the turning point. The rolling drag torque of carrier roller must be 7.6—8.2 N·m (67—73 lb-in.). If the rolling drag torque is not correct, remove cover and tighten or loosen nut. Repeat rolling drag torque procedure.

37. Remove cover after rolling drag torque is correct.

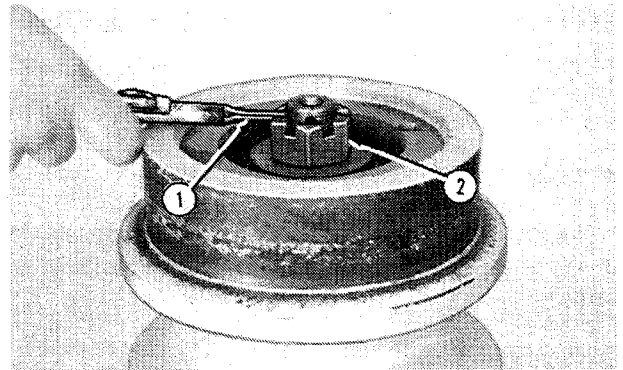


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38. Turn nut (2) counterclockwise 1/4 turn and install cotter pin (1). This should result in 0.00—0.15 mm (0.000—0.0006 in.) end play.

39. Add approximately 491 mL (16.6 oz) of recommended oil to carrier roller cavity. (See Track Rollers, Front Idler, Carrier Roller and Track Frame Pivot, Group 0004.)



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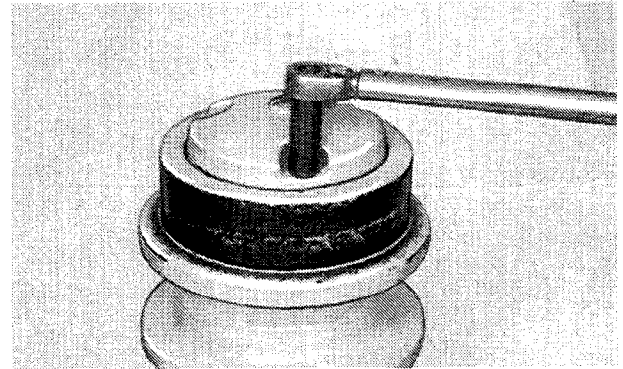
40. Install cover and new gasket.

41. Apply John Deere Gasket Maker or an equivalent to roller cover cap screws and fill plug. Install lock washers and cap screws.

*NOTE: Carrier rollers require lubrication only at the time of assembly.*

42. Check carrier roller for leakage. (See Carrier Roller Leakage Test in this group.)

43. Install carrier roller. (See Remove and Install Carrier Roller in this group.)



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T80418



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