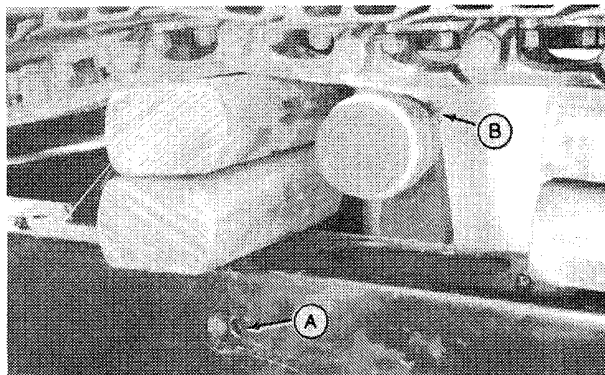


REMOVE AND INSTALL CARRIER ROLLER— 50



CAUTION: Grease in track adjusting cylinder is under high pressure. **DO NOT** remove grease fitting to release track tension.

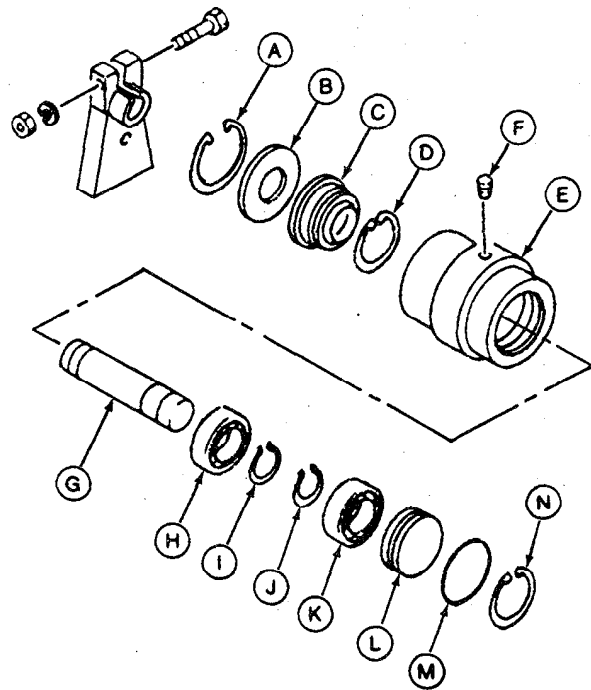
1. Turn track adjuster relief valve (A) just enough to relieve track tension.
2. Lift track chain off carrier roller. Remove cap screw (B), washer and nut to remove roller.
3. Install roller, cap screw (B), washer and nut. Tighten cap screw and remove blocks.
4. Adjust track sag. (See procedure in this group.)



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REPAIR CARRIER ROLLER—50

1. Remove plug (F) and drain oil.
2. Remove snap ring (N).
3. Use a press to remove parts (G—M) by pushing on shaft. Dissassemble shaft as necessary for repair.
4. Remove parts (A—D).
5. Clean and dry parts thoroughly. Make sure bearings roll freely. Inspect parts for wear or damage; replace as necessary.
6. Install snap ring (D).
7. Put snap rings (I and J) and bearings (H and K) on shaft.
8. Install shaft assembly in roller against snap ring (D) using a press.
9. Put O-ring (M) on cover (L). Install cover and snap ring (N).
10. Put pipe sealant with TEFLON on threads of plug (F) and install plug. Pour approximately 85 mL (2.9 oz) of recommended oil in open end of roller. (See Section I, Group IV.)
11. Install seal (C) using a press.
12. Install cover (B) and snap ring (A).



A—Snap Ring
 B—Cover
 C—Seal
 D—Snap Ring
 E—Roller
 F—Plug
 G—Shaft

H—Bearing
 I—Snap Ring
 J—Snap Ring
 K—Bearing
 L—Cover
 M—O-Ring
 N—Ring

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REMOVE AND INSTALL TRACK ROLLER

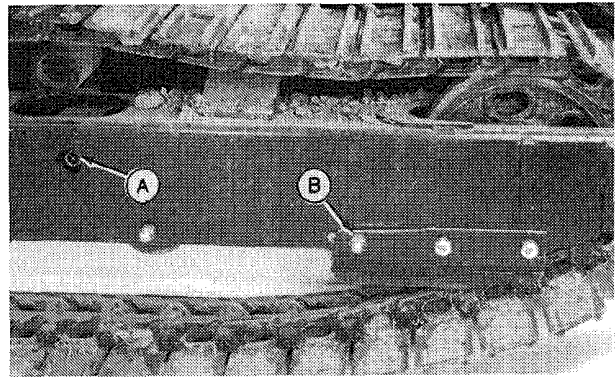


CAUTION: Grease in track adjusting cylinder is under high pressure. **DO NOT** remove grease fitting to release track tension.

1. Turn track adjuster relief valve (A) just enough to relieve track tension.
2. Lift side of unit high enough to permit roller removal. Support unit under the frame with blocks or jacks to prevent accidental lowering of unit.

NOTE: Cap screw (B) on front track roller is longer than cap screws for other rollers.

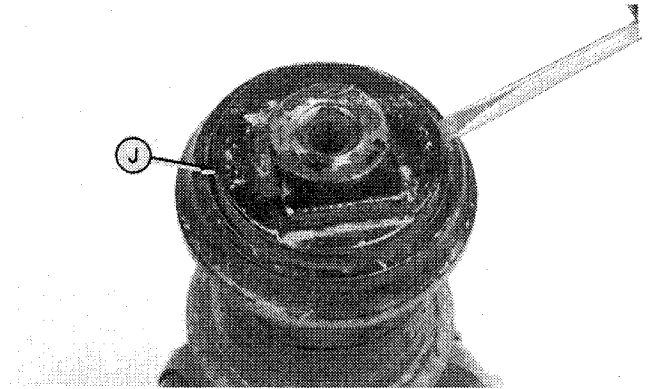
3. Remove nut and cap screw to remove track roller.
4. Install roller with flat side of end covers facing up towards frame.
5. Install and tighten cap screw to 137—186 N·m (101—137 lb-ft). Turn roller by hand to make sure it turns freely.



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REPAIR TRACK ROLLER—30

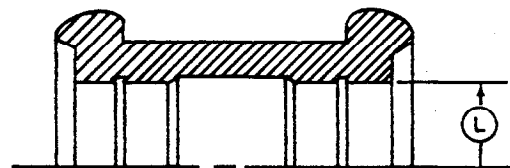
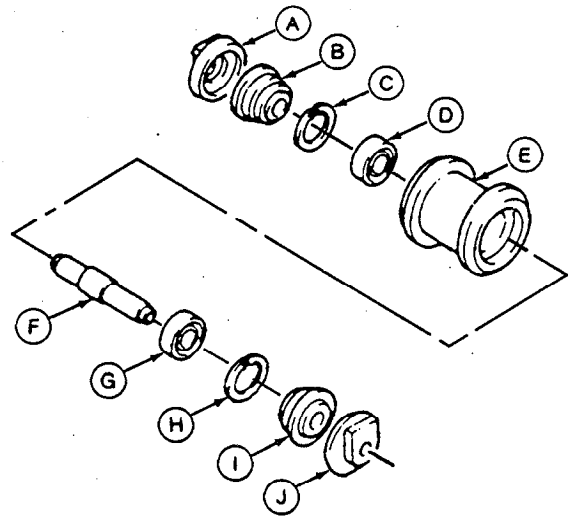
1. Remove cover (J), seal (I) and snap ring (H) from round end of roller shaft (F) using a pry bar.
2. Drain oil from roller.
3. Remove shaft (F) and bearing (G) from roller by pressing on shaft end with flats.
4. Remove parts (A—D).
5. Clean and dry parts.
6. Measure shaft O.D. (K) and roller I.D. (L). Replace parts that do not meet specifications.



TRACK ROLLER SPECIFICATIONS

Roller Shaft O.D. (K) 30 mm (1.18 in.)
 Roller I.D. (L) 62 mm (2.44 in.)

7. Install snap ring (H).
8. Install bearing (G) and shaft (F) using a press and driver. Install bearing (D) and snap ring (C).
9. Install seal (B) using a press and a piece of pipe that will fit over shaft. Install cover (A).
10. Put 70 mL (2.5 oz) of recommended oil into open end of roller.
11. Install seal (I) using a press and a piece of pipe. Install cover (J) making sure mounting surfaces of end cap are aligned.



- | | |
|-------------|---------------|
| A—Cover | G—Bearing |
| B—Seal | H—Snap Ring |
| C—Snap Ring | I—Seal |
| D—Bearing | J—Cover |
| E—Roller | K—Shaft O.D. |
| F—Shaft | L—Roller I.D. |

DISASSEMBLE TRACK ROLLER —50

1. Remove plug (A) to drain oil.
2. Remove snap ring (B). Use hammer and driver to push shaft assembly (C) from roller and cover (F).

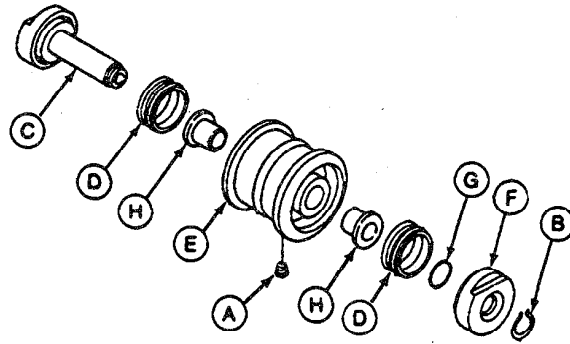
IMPORTANT: Keep seal rings as matched sets with seal faces together to protect the surface.

3. Remove seals (D) from roller (E).
4. Remove O-ring (G) from cover.

NOTE: Only remove bushings if replacement is necessary.

5. Remove bushings (H) using a two-jaw puller.
6. Clean and dry all parts thoroughly. Inspect parts for wear or damage.

Measure bushing I.D. and roller shaft O.D. Replace parts that are damaged or do not meet specifications.



- | | |
|------------------|--------------------|
| A—Drain Plug | E—Track Roller |
| B—Snap Ring | F—Cover |
| C—Shaft Assembly | G—O-Ring |
| D—Seal Assembly | H—Bushing (2 used) |

TRACK ROLLER SPECIFICATIONS

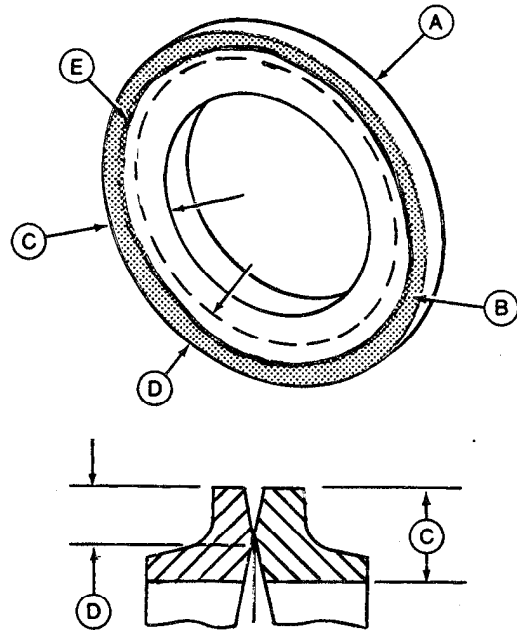
Bushing	
Maximum I.D.	35.4 mm (1.39 in.)
Shaft	
Minimum O.D.	34.5 mm (1.36 in.)

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INSPECT METAL FACE SEALS

1. Inspect for the following conditions to determine if seals can be reused:

- a. The narrow, highly polished sealing area (E) must be in the outer half of seal ring face (D).
- b. Sealing area must be uniform and concentric with the I.D. and O.D. of seal ring (A).
- c. Sealing area must not be chipped, nicked, or scratched.



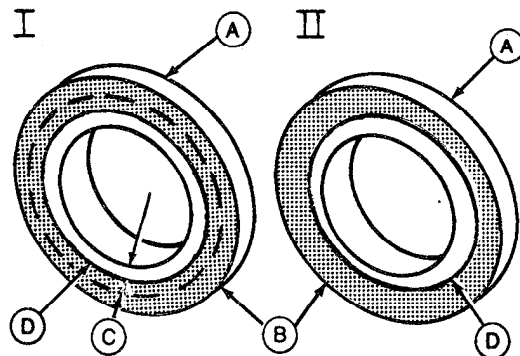
- A—Seal Ring
- B—Worn Area (shaded area)
- C—Seal Ring Face
- D—Outer Half of Seal Ring Face
- E—Sealing Area (dark line)

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2. Illustration shows examples of worn seal rings (A).

I—Sealing area (D) is in inner half of seal ring face (C).

II—Sealing area (D) not concentric with I.D. and O.D. of seal ring.



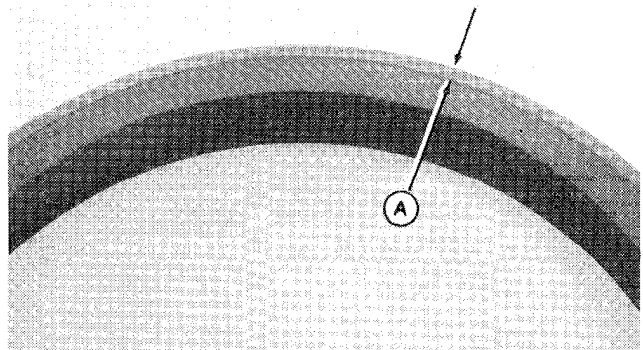
- A—Seal Ring
- B—Worn Area (shaded area)
- C—Inner Half of Seal Ring Face
- D—Sealing Area (dark line)

4AG;T85080 T47;0130 5939HR 140984

3. Clean seals to be reused by removing all foreign material from seal rings, except seal face (A), using a scraper or a stiff bristled fiber brush.

4. Wash seal rings and O-rings using a volatile, non-petroleum base solvent to remove all oil. Thoroughly dry parts using a lint-free tissue.

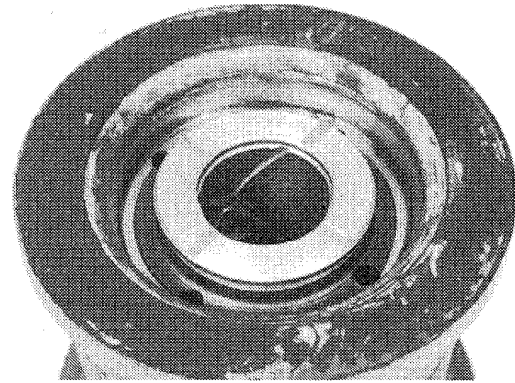
Apply a thin film of oil to seal ring face. Put face of seal rings together and hold using tape.



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ASSEMBLE TRACK ROLLER—50

1. Use a press to push bushings into track roller so bushing flange is tight against roller.



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IMPORTANT: O-rings and seat surfaces for O-rings must be clean, dry and oil free. A thin film of oil can be applied to O.D. of O-ring to ease assembly. Using too much oil will cause O-ring to rotate and leak.

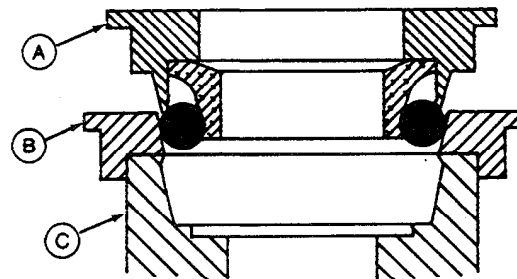
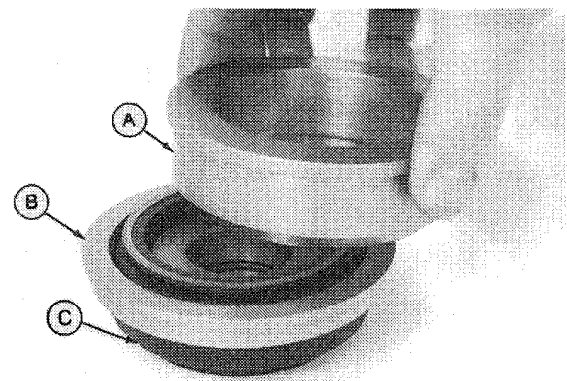
2. Use DF1021 Roller Seal Installation Tool to install one half of floating ring seal into roller cover.

Set guide collar (B) on roller cover (C). Set floating ring seal squarely into collar.

Use push collar (A) to push seal and O-ring into roller cover. Turn the push collar to seat O-ring uniformly.

IMPORTANT: The distance between top of seal ring and top of O-ring must be uniform around the circumference.

Install seal ring and O-ring in roller cover with shaft using same procedure.



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3. Use matching seal ring half from cover with shaft and set seal ring squarely into roller bore.

4. Wipe any finger prints and foreign material off seal ring face using a lint-free tissue. Apply a thin film of oil on bushings and each seal ring face only.

5. Carefully install shaft assembly into roller (E).

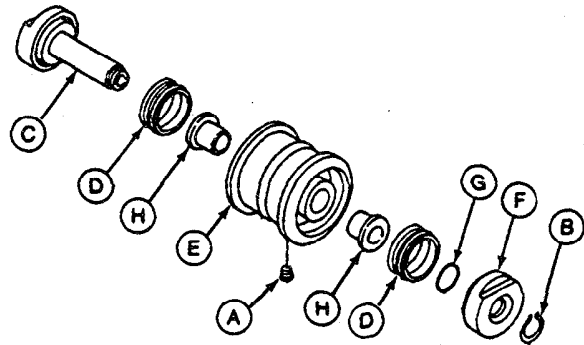
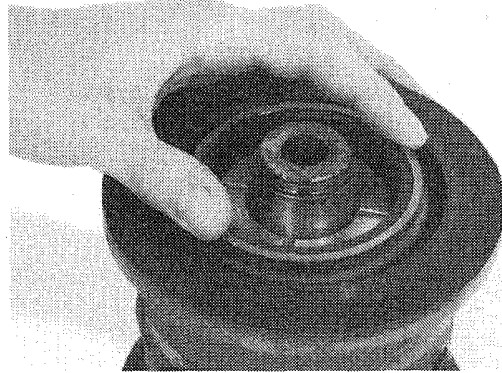
6. Install O-ring (G) into cover (F).

Wipe any finger prints and foreign material off seal ring face using a lint-free tissue. Apply a thin film of oil on each seal ring face only.

7. Put cover on shaft and install snap ring (B). If snap ring cannot be installed, use a press to push shaft through bracket.

8. Fill idler with approximately 150 mL (5.07 oz) of recommended oil. (See Section I, Group IV.)

Put pipe sealant with TEFLON on threads of plug (A). Install and tighten plug.



- | | |
|------------------|--------------------|
| A—Drain Plug | E—Track Roller |
| B—Snap Ring | F—Cover |
| C—Shaft Assembly | G—O-Ring |
| D—Seal Assembly | H—Bushing (2 used) |

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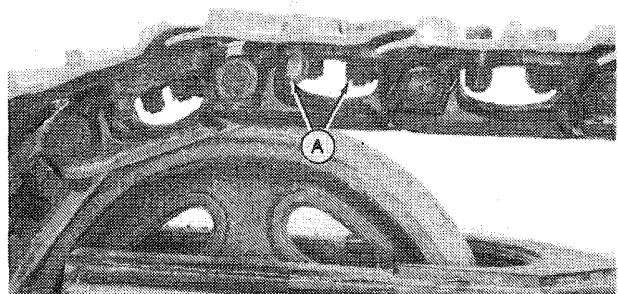
REMOVE AND INSTALL TRACK SHOE—50

1. Remove four nuts (A) and cap screws to remove shoe.

2. Clean paint, dirt and debris from mounting surfaces of shoes and links.

3. Apply oil to cap screw threads and bearing surface on head before installing cap screws.

4. Install track shoe. Tighten cap screws to 147—196 N·m (108—145 lb-ft).



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