

# TM1925 - 450CLC Excavator

## Track Carrier Roller

### Track Carrier Roller

#### Remove and Install Track Carrier Roller

NOTE:

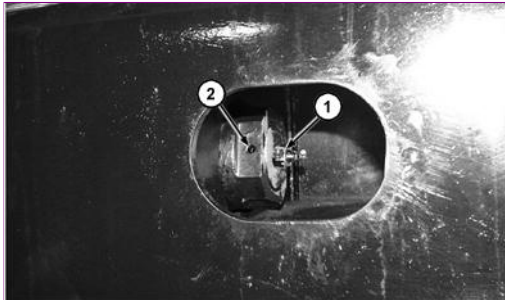
[See Undercarriage Appraisal Manual for component wear measurements.](#)

1.



**CAUTION:**

*High pressure grease in track adjuster cylinder. Do not remove grease fitting or nut and valve assembly to release grease.*



T138569B-UN: Nut and Valve Assembly

LEGEND:

- 1 - Nut and Valve Assembly
- 2 - Bleed Hole

Loosen nut and valve assembly (1) one turn to release grease from track adjuster cylinder through bleed hole (2).



2.

T6557DJ-UN: Jack and Wooden Blocks

Raise track link just enough to permit upper roller removal.

3.



**CAUTION:**

*Securely support track to prevent accidental lowering of track.*

Install wooden blocks between track link and frame.

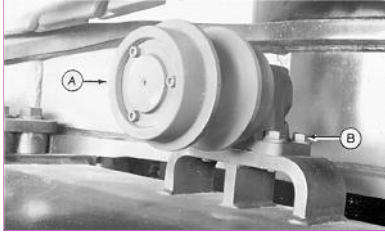
4.



**CAUTION:**

*The approximate weight of track carrier roller is 35 kg (77 lb).*

Item	Measurement	Specification
Track Carrier Roller		
Track Carrier Roller	Weight	35 kg (77 lb) approximate



T7029AL-UN: Cap Screw and Roller

**LEGEND:**

- A - Upper Roller
- B - Cap Screw (4 used)

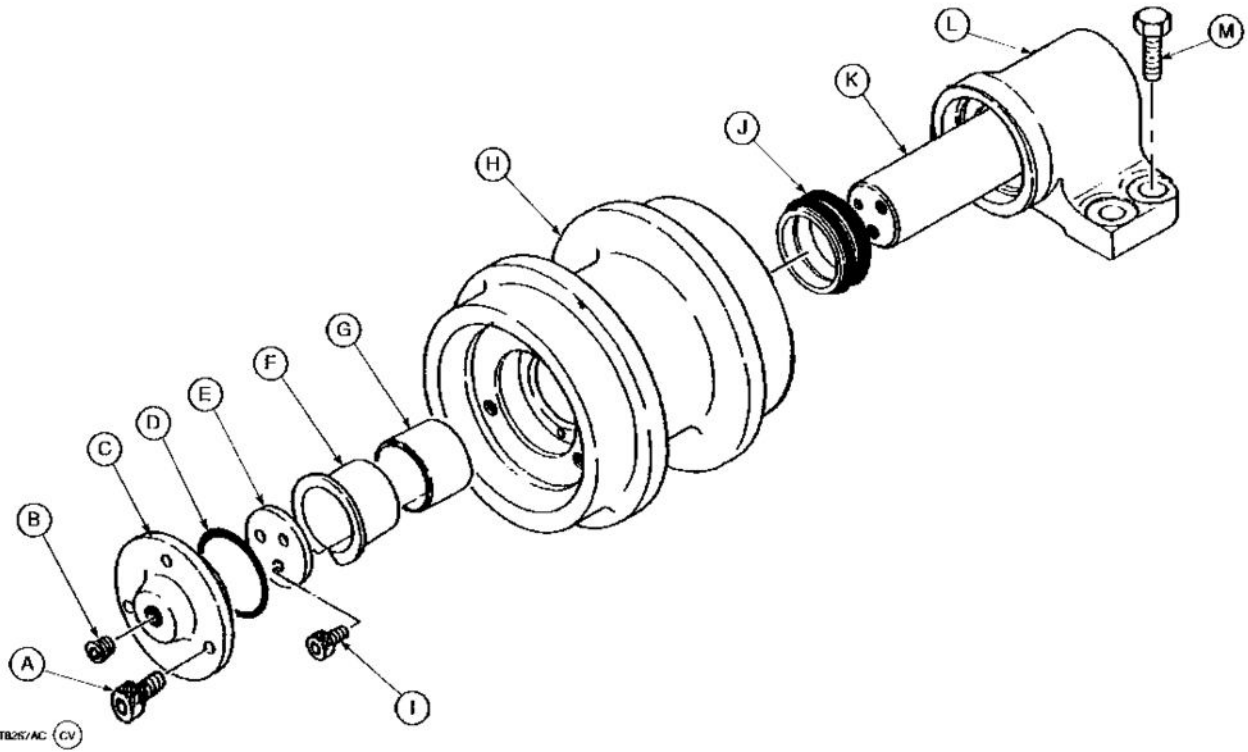
Remove cap screws (B) to remove upper roller (A).

5. Install upper roller (A). Tighten cap screws (B).

Item	Measurement	Specification
<b>Track Carrier Roller</b>		
Roller-to-Frame Cap Screw	Torque	393 N·m (290 lb-ft)

6. Check roller oil level by removing plug in cover. Add oil as necessary. (See Track Roller, Front Idler, and Carrier Roller Oil in Operator's Manual.) Approximate oil capacity is 120 mL (4 fl oz).
7. Remove wooden blocks and jack.
8. [Check and Adjust Track Sag](#) . (See Operator's Manual.)

**Disassemble and Assemble Track Carrier Roller**



T8267AC-UN: Track Carrier Roller Assembly

**LEGEND:**

- A - Cap Screw (3 used)
- B - Plug
- C - Cover
- D - O-Ring
- E - Thrust Washer
- F - Bushing
- G - Bushing
- H - Roller
- I - Cap Screw (3 used)
- J - Metal Face Seal
- K - Axle
- L - Bracket
- M - Cap Screw (4 used)

1. Remove plug (B) to drain oil.
2. Remove parts (A, C—E and I) to remove roller (H).

3. **IMPORTANT:**

**Metal face seals can be reused if they are not worn or damaged. A seal must be kept together as a set because of wear patterns on seal ring face.**

Remove metal face seal (J) from roller (H) and bracket (L). Keep seal rings together as a matched set with faces together to protect lapped surfaces. [Inspect metal face seals](#). (See procedure in this group.)

4. Remove bushings (F and G) if replacement is necessary.

5. Replace parts as necessary.

6. Install bushing (F) in roller so flange is tight against shoulder. Install bushing (G).

7. **IMPORTANT:**

**O-rings and seat surfaces must be clean, dry, and oil free so O-rings do not slip when roller is turning.**

Thoroughly clean the O-rings and seat surfaces in roller, bracket, and seal rings using a volatile, non-petroleum base solvent and lint-free tissues.

8. Install O-ring on seal rings.

9. Install seal rings and O-rings as an assembly into bracket (L) and roller (H).

Apply equal pressure with the fingers at four equally spaced points on seal ring face. Seal must "pop"

into place so O-ring and seal ring is seated squarely in bore.

10. **NOTE:**

*A volatile, non-petroleum base solvent or talcum powder may be used as a lubricant.*

Clean seal ring face using clean oil and lint-free tissues. Apply a thin film of oil to each seal ring face.

11. Install roller (H) and thrust washer (E). Tighten cap screws (I).

Item	Measurement	Specification
<b>Track Carrier Roller</b>		
Thrust Washer-to-Axle Cap Screw	Torque	64 N·m (47 lb-ft)

12. Install O-ring (D) and cover (C). Tighten cap screws (A).

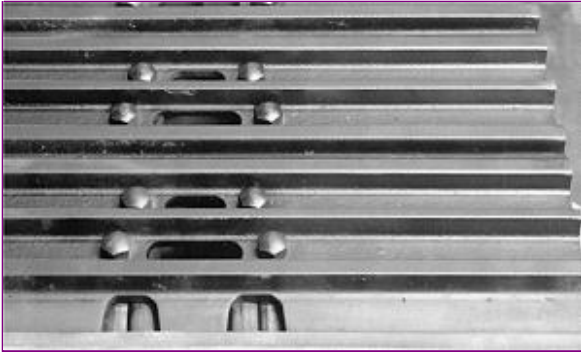
Item	Measurement	Specification
<b>Track Carrier Roller</b>		
Cover-to-Roller Cap Screw	Torque	64 N·m (47 lb-ft)

13. Fill roller with 120 mL (4 fl oz) of clean oil. See Track Roller, Front Idler, and Carrier Roller Oil. (See Operator's Manual.)

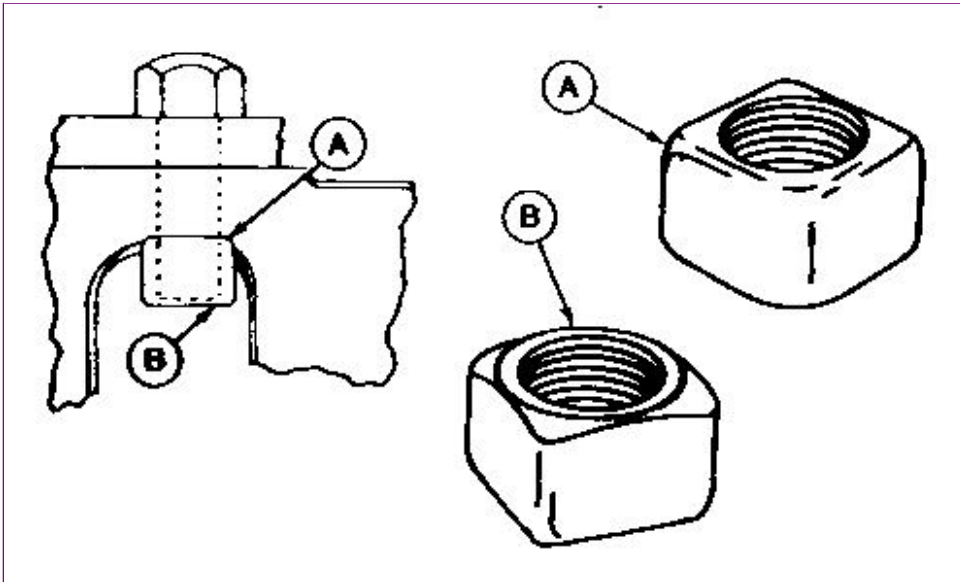
14. Apply cure primer and pipe sealant to threads of plug (B). Install plug.

# TM1925 - 450CLC Excavator Remove and Install Track Shoe

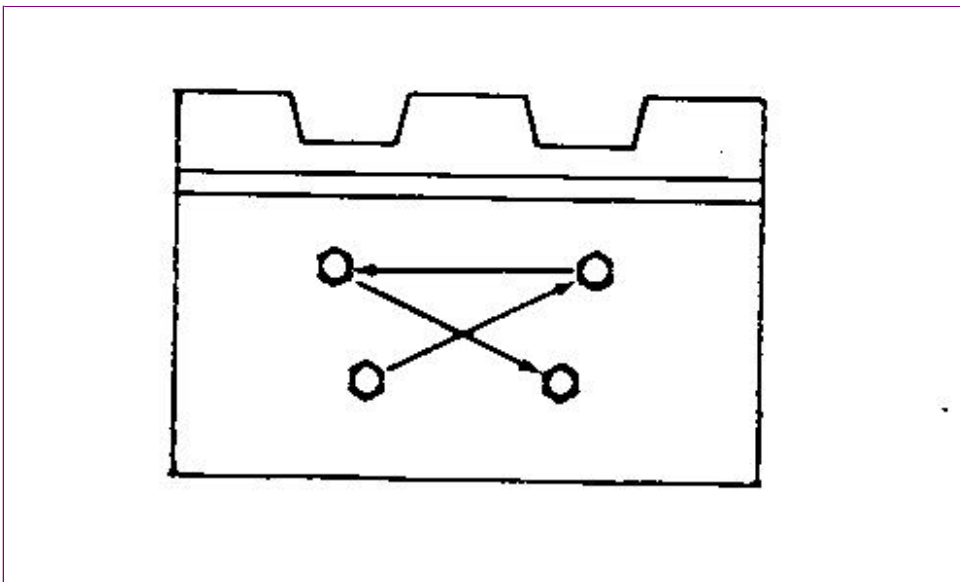
## Remove and Install Track Shoe



T6557DO-UN: Track Shoe Cap Screws



T6794AM-UN: Track Shoe Nuts



T6352AH-UN: Tightening Sequence

**LEGEND:**

- A - Rounded Edge
- B - Chamfered Edge

1. Remove nuts, cap screws, and shoe.
2. Apply a light coat of oil to cap screw threads and install shoe.
3. Install all track shoe nuts with rounded edges (A) against the link and chamfered edges (B) away from the link. Be sure nut is properly positioned in the link so there is full contact between the nut and the link.
4. Starting at any cap screw, tighten cap screws in sequence shown.

<b>Item</b>	<b>Measurement</b>	<b>Specification</b>
<b>Track Shoe</b>		
Shoe-to-Chain Cap Screw	Torque	1375 N·m (1015 lb-ft)

## TM1925 - 450CLC Excavator Track Chain

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### Track Chain

#### Remove Track Chain

1.

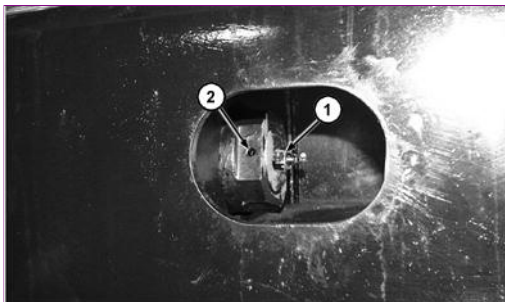
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**CAUTION:**

*High pressure grease in track adjuster cylinder. Do not remove grease fitting or nut and valve assembly to release grease.*

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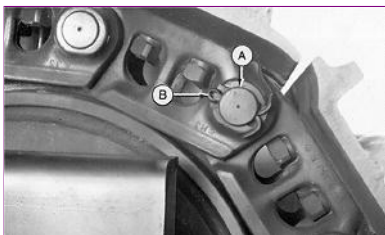
T138569B-UN: Nut and Valve Assembly

#### LEGEND:

- 1 - Nut and Valve Assembly
- 2 - Bleed Hole

Loosen nut and valve assembly (1) one turn to release grease from track adjuster cylinder through bleed hole (2).

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2.

T7029AN-UN: Cap Screw and Roller

#### LEGEND:

- A - Master Pin
- B - Cotter Pin

Move track chain so master pin (A) is over front idler.

3. Remove cotter pin (B).
  4. Remove nuts and cap screws to remove shoe on each side of master pin.
  5. Put a wooden block in front of idler and under chain so chain does not fall when master pin is removed.
  6. Raise excavator just enough so bottom of sprocket clears track chain.
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7. T7029AP-UN: Master Pin Removal Using Track Press

**LEGEND:**

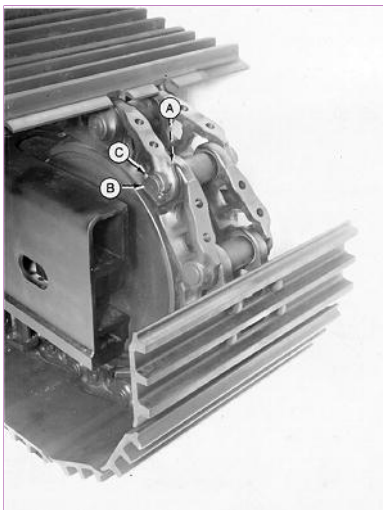
A - Master Pin

Remove master pin (A) using 100 ton track press.

8. Pry apart chain and lower end of track.
9. Slowly turn sprocket in reverse direction to remove track chain from excavator.
10. Remove collars from master link counterbores.
11. Inspect parts and repair as necessary.

**Install Track Chain**

1. Install track chain so section on ground has pin boss on links towards rear of unit.
2. Install end of chain on sprocket and slowly turn sprocket in forward direction to pull chain across top of frame to front idler.



3. T7029AQ-UN: Master Pin Installed

**LEGEND:**

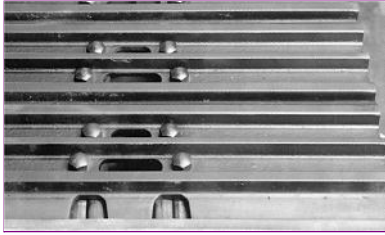
A - Collars

B - Master Pin

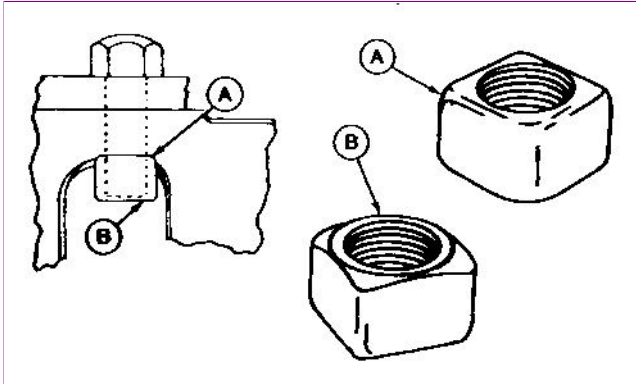
C - Cotter Pin

Install collars (A) in counterbores.

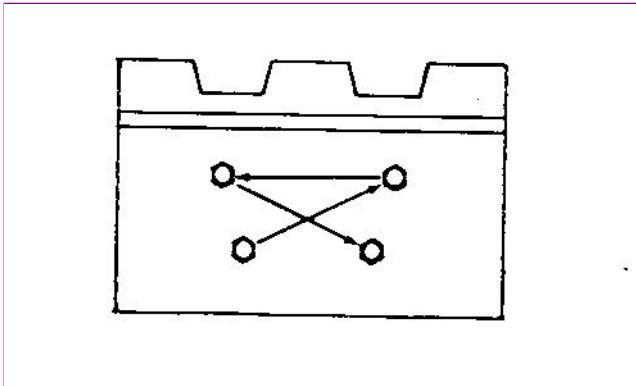
4. Pull ends of chain together.
5. Install master pin (B) using 100 ton track press.
6. Install cotter pin (C).
7. Lower excavator.
8. Apply a light coat of oil to threads of cap screws.
9. Install shoe on each side of master pin.



10. T6557DO-UN: Track Shoe Cap Screws



T6794AM-UN: Track Shoe Nuts



T6352AH-UN: Tightening Sequence

**LEGEND:**

- A - Rounded Edge
- B - Chamfered Edge

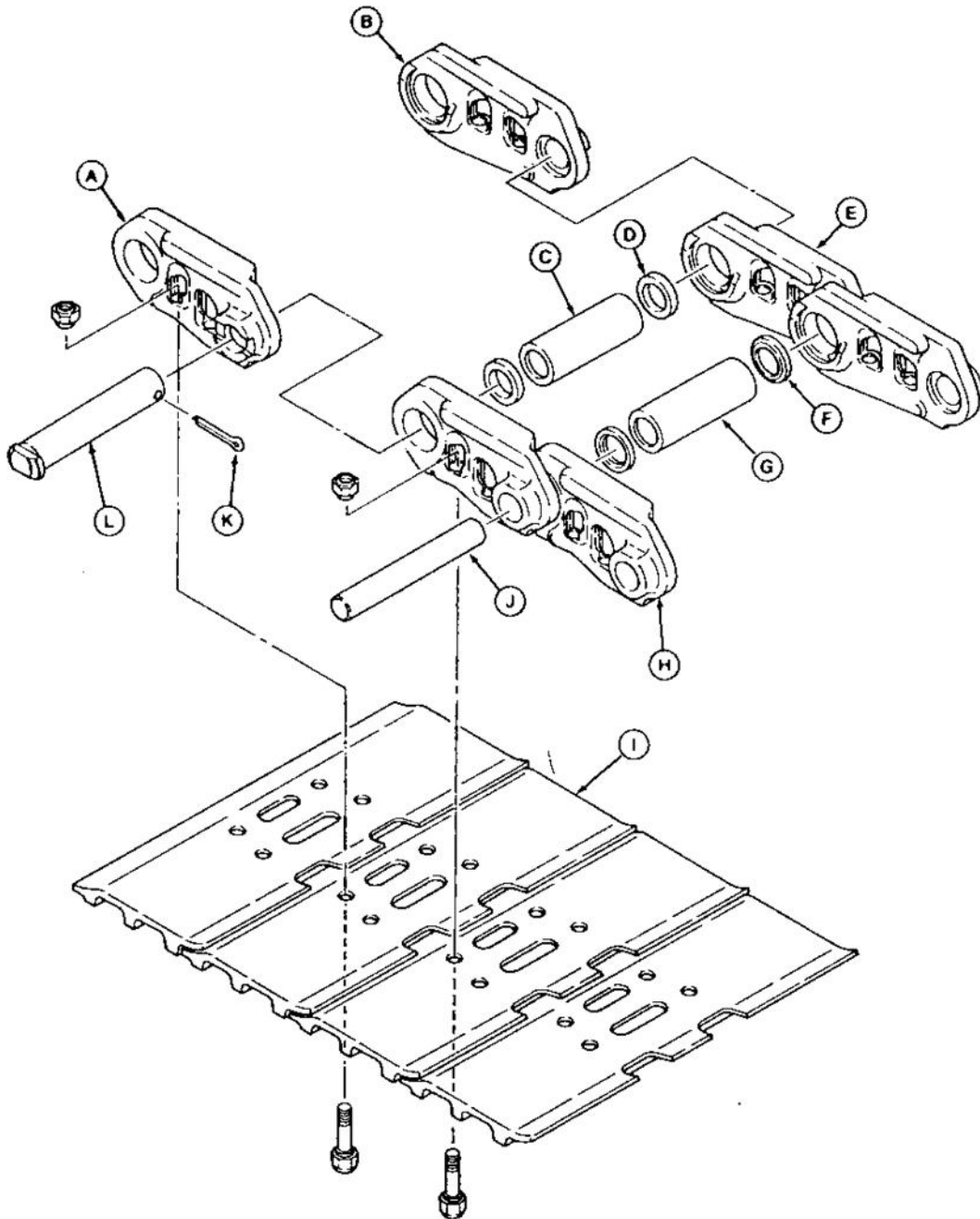
Install all track shoe nuts with rounded edges (A) against the link and chamfered edges (B) away from the link. Be sure nut is properly positioned in the link so there is full contact between the nut and the link.

11. Starting at any cap screw, tighten cap screws in sequence shown.

Item	Measurement	Specification
Track Chain		
Shoe-to-Chain Cap Screw	Torque	1375 N·m (1015 lb-ft)

**Disassemble and Assemble Track Chain**





T7029AG-UN: Track Chain Assembly

**LEGEND:**

- A - Left Master Track Link
- B - Right Master Track Link
- C - Master Bushing
- D - Collar (2 used)
- E - Right Track Link (52 used)
- F - Seal (104 used)
- G - Bushing (52 used)
- H - Left Track Link (52 used)
- I - Shoe (53 used)
- J - Pin (52 used)
- K - Cotter Pin
- L - Master Pin

1. Remove parts (A—L). Inspect and replace parts as necessary.
2. Install parts.

Item	Measurement	Specification
<b>Track Chain</b>		
Master Pin	OD	47.30 mm (1.86 in.) new 44.30 mm (1.74 in.) minimum used
Master Bushing	ID	47.90 mm (1.89 in.) new 50.90 mm (2.00 in.) minimum used
Track Pin	OD	47.57 mm (1.87 in.) new 44.57 mm (1.75 in.) minimum used

Bushing

ID

48.40 mm (1.91 in.) new  
49.43 mm (1.95 in.) minimum used

Minimum used is the maximum allowable wear for turning pins and bushings.

Measure bushing outer diameter at the two worn places using a caliper such as the D17524C1 100 mm Caliper from JT05518A or JT05523 Undercarriage Inspection Service Tool Kit.

**NOTE:**

*See Undercarriage Appraisal Manual SP326 for additional information.*

# TM1925 - 450CLC Excavator

## Remove and Install Sprocket

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### Remove and Install Sprocket

**IMPORTANT:**

Sprocket must be replaced when the tooth tips become excessively rounded, worn, or chipped to prevent excessive wear to chain. If machine is driven in one direction a majority of the time, wear will be on one side of teeth. To extend service life, change sprockets from one side of machine to the other.

1. Disconnect [Track Chain](#) from sprocket. (See procedure in this group.)
2. Lift side of machine so sprocket teeth clear chain.
3. 

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**CAUTION:**

*The approximate weight of sprocket is 85 kg (187 lb).*

Item	Measurement	Specification
<b>Sprocket</b>		
Sprocket	Weight	85 kg (187 lb) approximate

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Remove sprocket cap screws.

4. Attach sprocket to hoist, remove and move to other side of machine or replace.
5. Install sprocket. Apply thread lock and sealer (high strength) to threads of cap screws and tighten.

Item	Measurement	Specification
<b>Sprocket</b>		
Sprocket-to-Gearbox Cap Screw	Torque	740 N·m (545 lb-ft)

6. [Check and Adjust Track Sag](#) . (See Operator's Manual.)

## TM1925 - 450CLC Excavator Front Idler

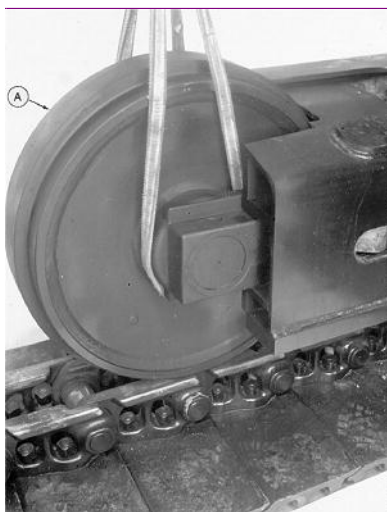
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### Front Idler

#### Remove and Install Front Idler

**NOTE:**

See *Undercarriage Appraisal Manual* for component wear measurements.



T7029BB-UN: Front Idler

**LEGEND:**

A - Front Idler

1. Disconnect [Track Chain](#) . (See procedure in this group.)
2. Slide front idler (A) forward using a pry bar.
3. 

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**CAUTION:**

*The approximate weight of front idler is 275 kg (606 lb).*

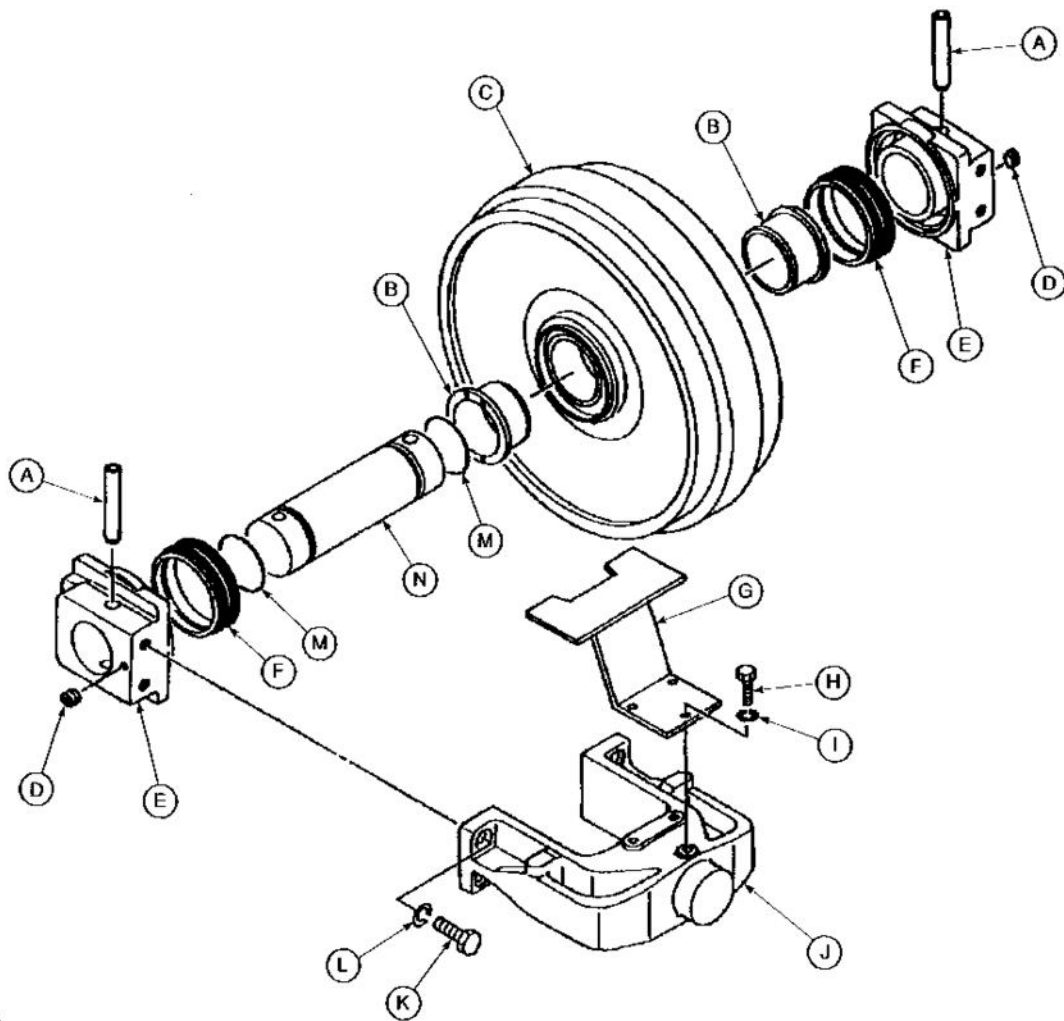
Item	Measurement	Specification
<b>Front Idler</b>		
Front Idler	Weight	275 kg (606 lb) approximate

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Attach front idler to hoist and remove from frame.

4. Replace parts as necessary.
5. Install front idler and slide rearward into frame as far as possible.
6. Connect [Track Chain](#) . (See procedure in this group.)

#### Disassemble Front Idler



T8267AD (CV)

T8267AD-UN: Front Idler Assembly

**LEGEND:**

- A - Pin (2 used)
- B - Bushing (2 used)
- C - Idler
- D - Plug (2 used)
- E - Bracket (2 used)
- F - Metal Face Seal (2 used)
- G - Guard
- H - Cap Screw (3 used)
- I - Lock Washer (3 used)
- J - Yoke
- K - Cap Screw (4 used)
- L - Lock Washer (4 used)
- M - O-Ring (2 used)
- N - Axle

1. Remove cap screws (H). Remove guard (G).
2. Remove cap screws (K). Remove yoke (J).
3. Remove plug (D) to drain oil. Approximate capacity is 450 mL (15 fl oz).

4. **IMPORTANT:**

**Metal face seals can be reused if they are not worn or damaged. A used seal must be kept together as a set because of wear patterns on seal ring face.**



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