

Product: TRACK LOADER

Model: 955K TRACK LOADER 85J

Configuration: 955L TRAXCAVATOR 85J09510-UP (MACHINE) POWERED BY 3304 ENGINE

Disassembly and Assembly 955K TRACK-TYPE LOADER POWER TRAIN

Media Number -REG00861-00

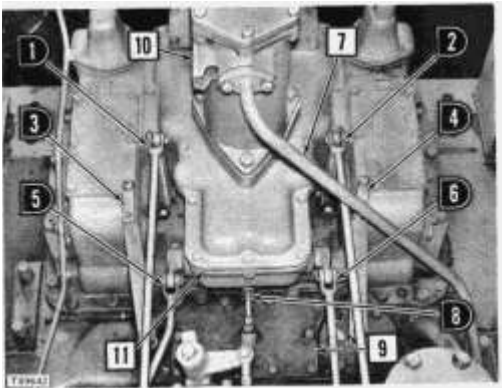
Publication Date -01/11/1993

Date Updated -10/10/2001

Steering Clutches, Bevel Gear And Final Drive

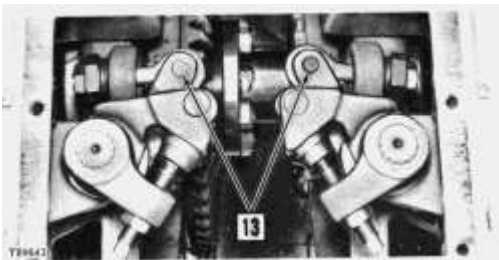
SMCS - 1405-016

Steering Clutch Case Cover Removal

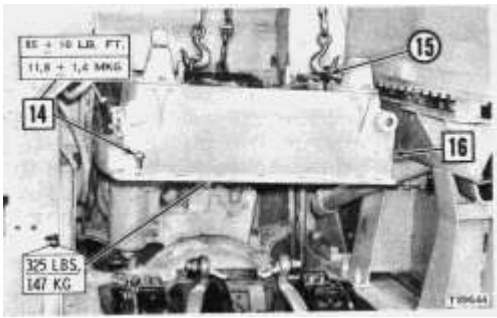


Viewed from front of machine 1-Right brake control rod. 2-Left brake control rod. 3-Right pedal return spring. 4-Left pedal return spring. 5-Right steering clutch control rod. 6-Left steering clutch control rod. 7-Steering clutch case oil supply line. 8-Tube. 9-Cover. 10-Oil filter. 11-Steering booster cover.

12. Remove steering booster.

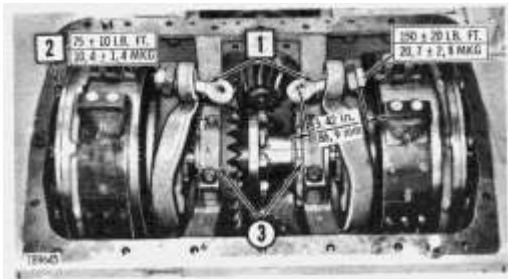


13 Pins.

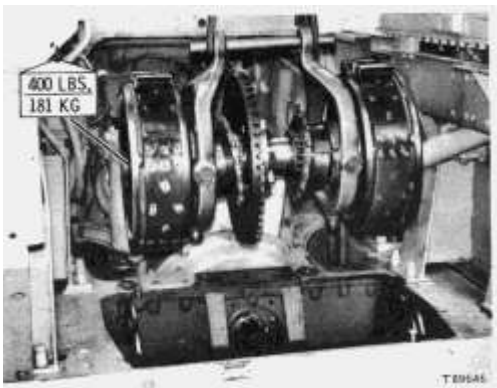


14-Bolts (eighteen). 15-Forged eyebolts (three). Install 3/8"-16 NC forged eyebolts and attach a hoist. 16-Steering clutch case cover.

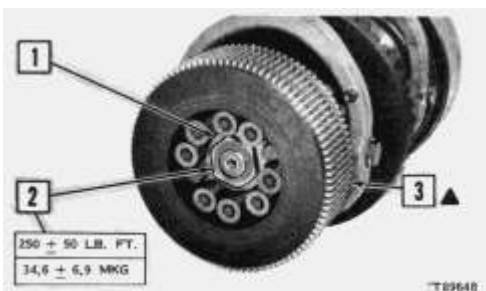
Steering Clutch And Bevel Gear Shaft Removal



1-Rod ends. When installing rod end and adjusting nut, adjust dimension between center of hole in rod end and outer face of adjusting nut to dimension shown. Lock with lock nut. 2-Bolts (twenty). 3-Bearing caps. The caps are marked L and R and should be installed on the correct side of the machine.



Steering Clutch Removal



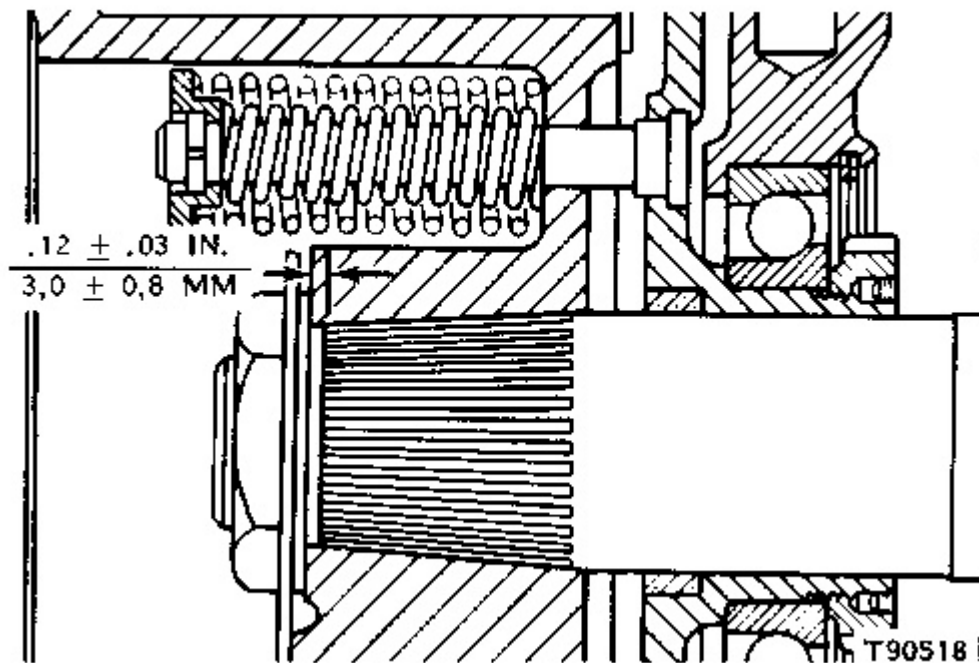
1-Lock. 2-Nut. Loosen until there is .25 in. (6,4 mm) between nut and hub. 3-Steering clutch, bearing and yoke. Pull

the steering clutch from the shaft by using a 7F9540 Hydraulic Puller, 6F25 or 3S6224 Pump Group, 8B7548 Push Puller, two 8B7556 Adapters and an 8B7561 Step Plate.

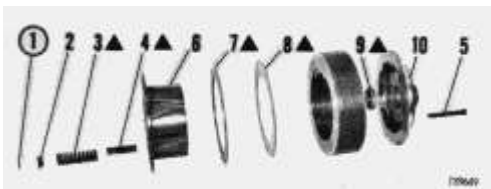
Steering Clutch Installation

Be certain the splines on the bevel gear shaft and in the steering clutch driving drum are clean, dry and free from burrs.

1. With the splines meshing, push the clutch onto the shaft as far as possible by hand.
2. Using a 7M7236 Adapter Group, 7F9540 Hydraulic Puller and 6F25 or 3S6224 Pump Group, press the steering clutch driving drum onto the bevel gear shaft with a pressure of 15-20 tons (13,6 -18,1 M. tons). The distance between the face of the drum and the shoulder of the shaft must then be $.12 \pm .03$ in. ($3,0 \pm 0,8$ mm).
3. Install the steering clutch retaining nut. Tighten to a torque of 250 ± 50 lb. ft. ($34,6 \pm 6,9$ mkg). Install the lock.



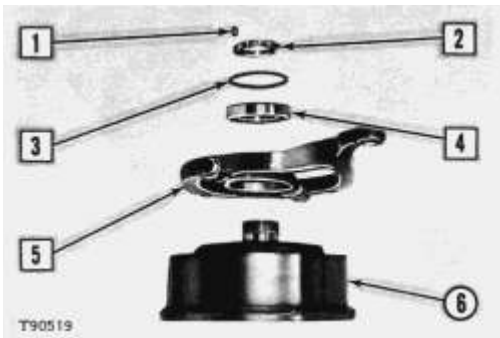
Steering Clutch Disassembly



To remove or install locks (1) use a 7F9540 Hydraulic Puller, 6F25 or 3S6224 Pump Group, 8B7548 Push Puller, two 8B7556 Adapters, 8B7561 Step Plate and 7S8431 Spring Compressor Plate.

NOTE: If new discs (8) are installed, no precaution is necessary as to which face is up. If the same discs are installed, they must be replaced with the same face up. Place the top discs on the bottom of the stack.

Steering Clutch Release Bearing Removal And Installation

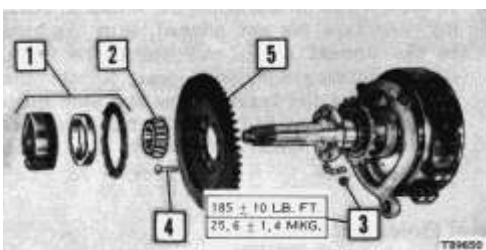


1-Setscrews (two). 2-Nut. 3-Retaining ring. 4-Thrust bearing. 5-Bearing cage and yoke. 6-Steering clutch (shown with drum installed to protect and align teeth of discs).

NOTE: The bearing (4) is a thrust bearing and must be installed with the widest side of the inner race next to the nut.

1. Assemble the parts in the reverse order of disassembly.
2. After the nut has been secured, drill two diametrically opposed $13/64$ in. holes, .38 in. (9,6 mm) deep on the parting line of the plate assembly and the nut.
3. Using a $1/4$ "-20 NC tap, tap each hole .25 in. (6,3 mm) deep.
4. Install the two hollow head setscrews.
5. Peen over the nut and plate assembly around the setscrews to retain them.

Bevel Gear Shaft Bearings And Bevel Gear Removal



1-Cage, nut and cup. 2-Bearing. The bevel gear shaft bearings can be removed by using an 8B7548 Push Puller, 8B7549 Legs, 8B7551 Bearing Puller Attachment, 7F9540 Hydraulic Puller and a 6F25 or 3S6224 Pump Group. 3-Nuts (eight). 4-Bolts (eight). 5-Bevel gear.

NOTE: Heat the bearings in oil before installing on shaft. The inner race must be seated against the shoulder of the shaft.

Bevel Gear And Pinion Setting

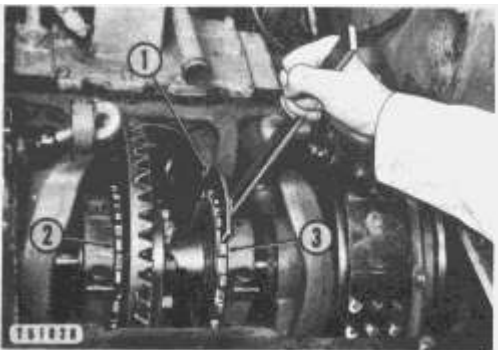
The bevel gear and pinion must be located to obtain the correct tooth contact. The pinion can be moved toward or away from the centerline of the bevel gear and bevel gear shaft with shims located between the pinion shaft bearing cage and the bevel gear case. Adjusting nuts, on each bevel gear shaft bearing cage, permit moving the bevel gear toward or away from the centerline of the bevel pinion shaft. Moving either the bevel gear or the pinion affects both backlash and tooth contact so the two must be adjusted at the same time.

The relative positions of the bevel gear and the pinion gear will vary with different sets. The correct amount of backlash is $.008 \pm .003$ in. ($0,2 \pm 0,07$ mm). When replacing an individual gear or pinion, see the topic, BACKLASH ADJUSTMENT, for correct setting.

The pinion location can be obtained as described in the topic, BEVEL PINION LOCATION.

Preload the bevel gear shaft bearings as outlined in the covering topic before adjusting the backlash or locating the bevel pinion.

Bevel Gear Shaft Bearing Preload



Typical example of bevel gear shaft bearing preload. Illustrated are : 1-7M7239 Wrench. 2-Nut. 3-Nut.

Use a 7M7239 Wrench to tighten the nuts.

Make certain the bevel gear and bevel pinion gear do not bind.

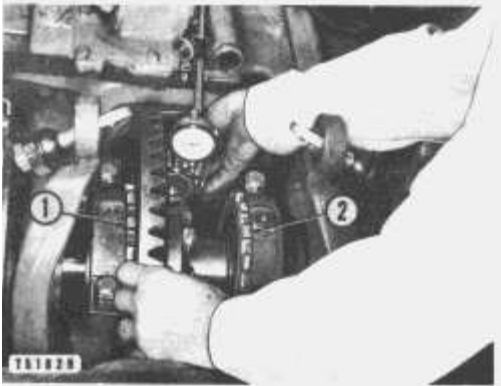
Use a pry bar to make certain there is no bevel gear shaft bearing end clearance.

Backlash Adjustment

The amount of backlash between each bevel gear and pinion set on original installation, is determined at the factory and marked on the outside diameter of the bevel gear. On a replacement gear or pinion, adjust the backlash to $.008 \pm .003$ in. ($0,2 \pm 0,07$ mm).

1. Secure a dial indicator to the bevel gear case as shown.
2. Lock the bevel gear so it cannot rotate.
3. Place the finger of the dial indicator on the pinion gear tooth.
4. Rock the pinion gear back and forth.

5. The amount of backlash is the difference in readings on the dial indicator.
6. Check the backlash at four different locations on the bevel gear, taking the lowest reading as the position to check the backlash.
7. If the reading is too great, decrease the backlash by loosening the right adjusting nut and tightening the left adjusting nut an equal amount.



Typical example of checking bevel gear backlash. Illustrated are: 1-Left adjusting nut. 2-Right adjusting nut.

8. To increase backlash, loosen the left adjusting nut and tighten the right adjusting nut an equal amount.

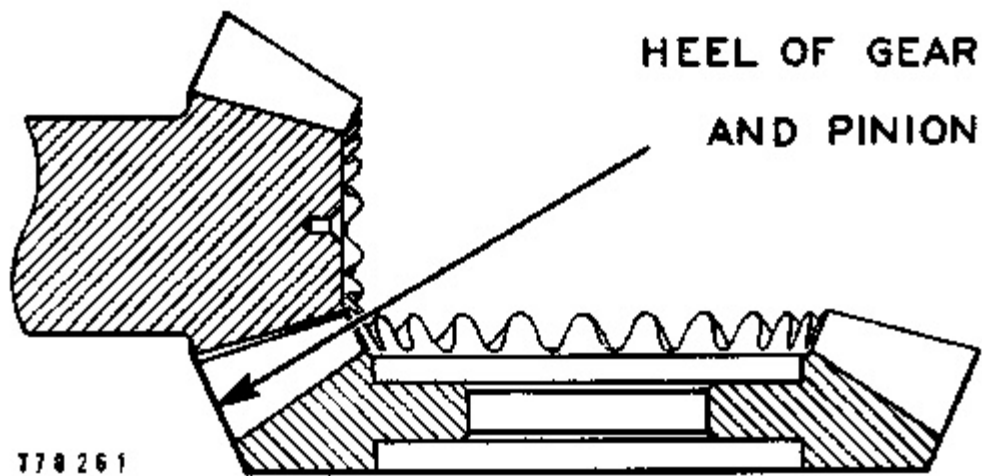
NOTE: Bevel gear shaft bearing preload will be maintained only if the bearing slack caused by loosening one adjusting nut is compensated for by tightening the other adjusting nut an equal amount. See the topic, BEVEL GEAR SHAFT BEARING PRELOAD.

9. If the notches on the adjusting nuts and bearing cage caps are not aligned, turn the nuts to the nearest notch and install the locks. After adjusting the bevel gear, tighten the bolts holding the bearing caps and lock them in place. Tighten and lock the bolts that secure the bevel pinion gear bearing cage to the bevel gear case.

Bevel Pinion Location

If the same pinion shaft is reinstalled in the same bevel gear case, use the same shims between the pinion shaft bearing cage and the bevel gear case that were removed. The pinion can be located by observing the tooth contact pattern made by the pinion gear teeth on the bevel gear teeth. This can be done in the following manner.

Use sufficient shims between the pinion shaft bearing cage and the bevel gear case to align the heel ends of the bevel gear and pinion gear teeth. This will place the pinion in nearly the correct relationship with the bevel gear.



This illustrates aligning the bevel gear and pinion.

Adding shims will move the pinion gear away from the centerline of the bevel gear shaft. Removing shims will move the pinion toward the centerline of the bevel gear shaft.

Adjust the bevel gear backlash as described in the topic, BACKLASH ADJUSTMENT. This should give a very close adjustment.

To further check the adjustment, brush Prussian blue or red lead sparingly on the bevel gear teeth. When the pinion is rotated, the red lead is squeezed away by the contact of the teeth, leaving bare areas of the contacts. Sharper impressions can be obtained by applying a small amount of resistance to the bevel gear while rotating the pinion. When making adjustments, check the convex side of the bevel gear teeth. The reverse or concave side contact should automatically be correct when the convex side is correct.

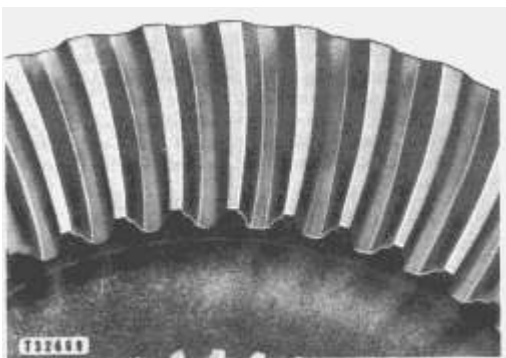


FIG. A - This illustrates proper tooth contact pattern.

With adjustments properly made, the correct tooth contact in Fig. A will be obtained. The area of contact starts near the toe of the gear and extends about 30 per cent of the tooth length. This contact pattern is obtained with no load applied to the gears. This adjustment results in a quiet running bevel gear and pinion set which, because when the load is applied it is distributed over the teeth within the proper area, will give maximum service life. It is permissible for the tooth contact area to be slightly greater on the concave face.

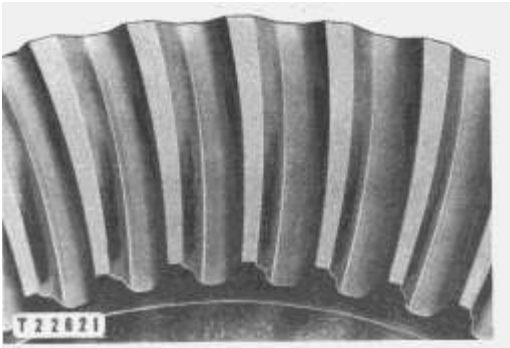


FIG. B - This illustrates short toe contact.

In Fig. B, the pinion is too far away from the centerline of the bevel gear shaft. This causes the teeth to bear on the toe ends of the convex faces and toward the heel end of the concave faces. To correct this, move the pinion toward the gear by removing shims from the bevel pinion bearing cage. Recheck the backlash, changing it if necessary, and again check the tooth contact pattern. To correct the backlash, move the bevel gear away from the pinion.

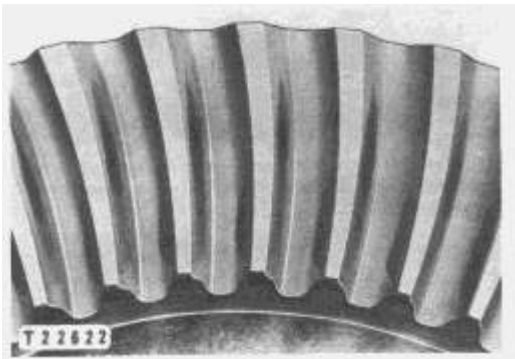


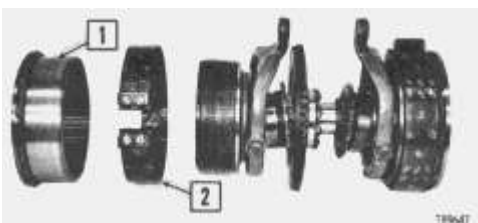
FIG. C - This illustrates short heel contact.

In Fig. C, the pinion is too close to the centerline of the bevel gear shaft. This causes the teeth to bear on the toe ends of the concave faces and the heel ends of the convex faces. To correct, add shims to the bevel pinion bearing cage. Then, recheck the backlash and tooth contact patterns. To correct the backlash, move the bevel gear toward the pinion.

Several adjustments of both the pinion and bevel gear may be necessary before correct tooth contact and backlash are obtained.

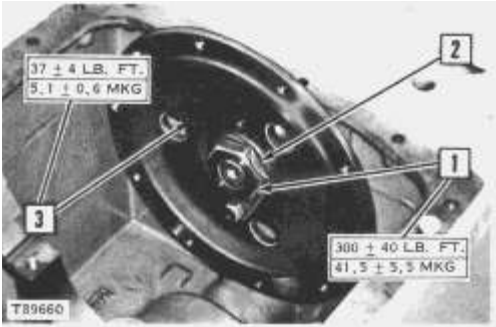
Always remember that the backlash will also affect the tooth contact pattern. Therefore, be sure the backlash is properly adjusted before checking the adjustment of the pinion.

Brake Band And Drum Removal And Installation

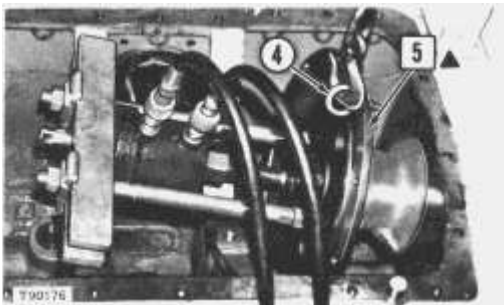


1-Brake drum. 2-Brake band.

Final Drive Pinion Removal

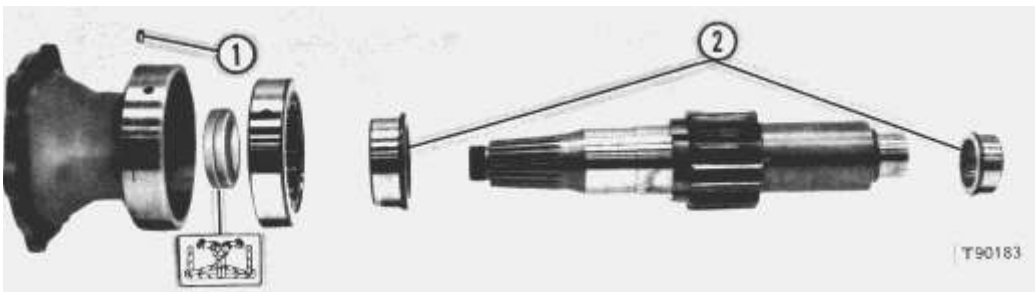


1-Nut. 2-Lock. After removing lock, reinstall nut leaving about .25 in. (6,3 mm) between flange and nut. 3-Bolts (six).



4-3/8"-16 NC forged eyebolt and nut. Attach a hoist. Move the flange and pinion toward the centerline of the machine until the cage clears the inside wall of the clutch case and the flange and pinion can be supported as shown. 5-Brake drum flange. Remove from pinion by using an 8B7548 Push Puller, two 8B7556 Adapters, an 8B7560 Step Plate, a 7F9546 Hydraulic Puller and a 6F25 or 3S6224 Pump Group.

Final Drive Pinion Disassembly



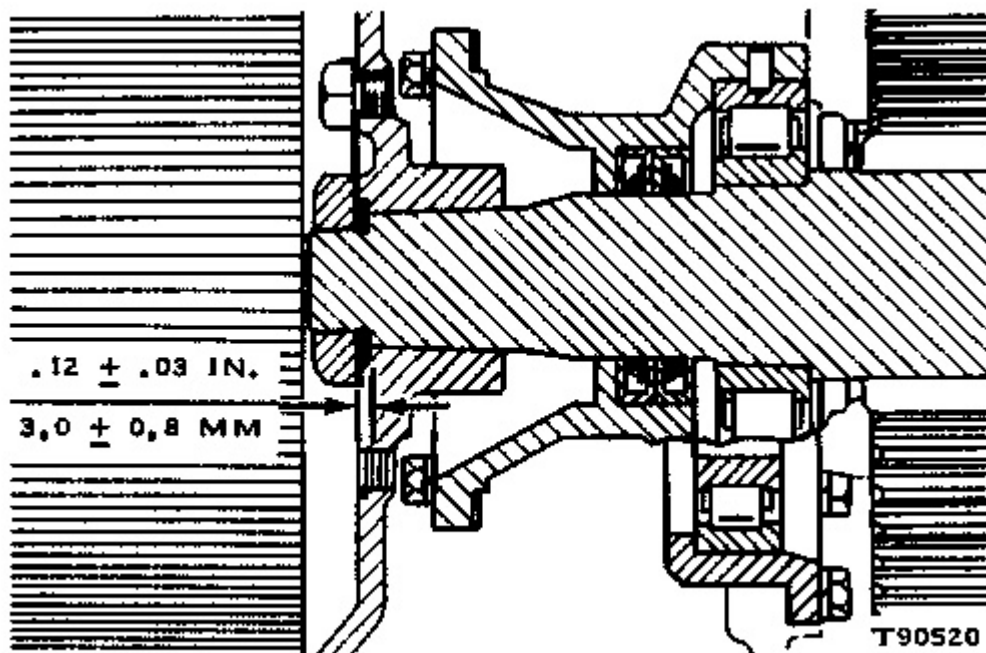
1 Remove dowel by inserting a 1/4"-20 NC bolt into the dowel and pulling the dowel out of the cage.

2 Remove the races with an 8B7548 Push Puller, 8B7551 Bearing Pulling Attachment and an 8B7560 Step Plate.

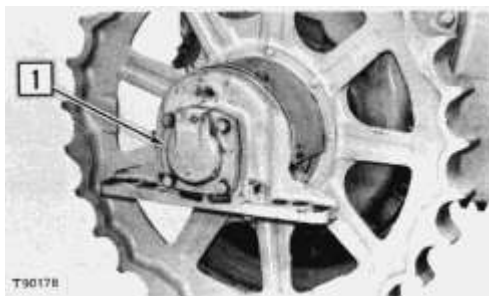
Final Drive Pinion Installation

Reassemble the final drive pinion and install it in the machine. Press the brake drum flange into place with a force of 15-20 tons (13,6-18,1 M. tons) using a 7M7236 Adapter Group, 7F9540 Hydraulic Puller and a 6F25 or 3S6224 Pump Group.

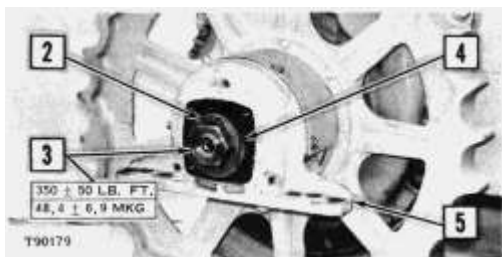
The distance between the face of the flange and the shoulder of the pinion should be $.12 \pm .03$ in. ($3,0 \pm 0,7$ mm).



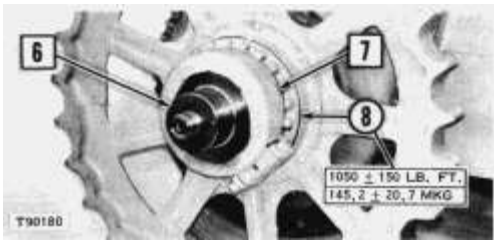
Final Drive Removal And Installation (As A Unit)



1-Cap.

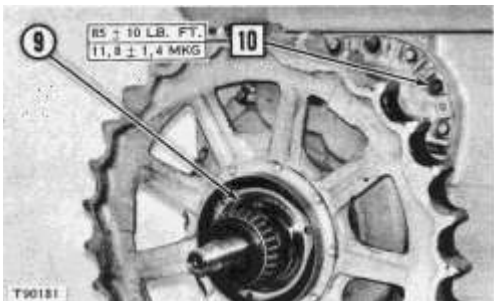


2-Lock. 3-Nut. 4-Washer. 5-Bearing.



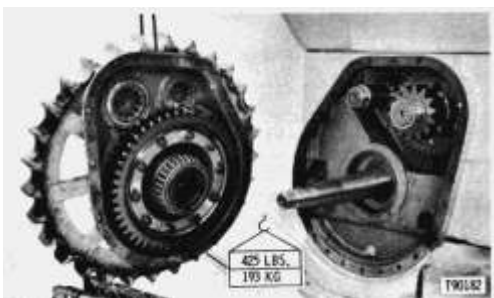
6-Shims. For alignment of track roller frame and sprocket. See ALIGNMENT OF TRACK ROLLER FRAMES. 7-Holder, and bearing cage. 8-Adjusting nut.

NOTE: Replace the nut (3) on the end of the sprocket shaft leaving some space between it and the end of the bearing cage holder. The holder assembly (7) can be removed by turning the nut (8) in a clockwise direction with a 7F9306 Spanner Wrench.

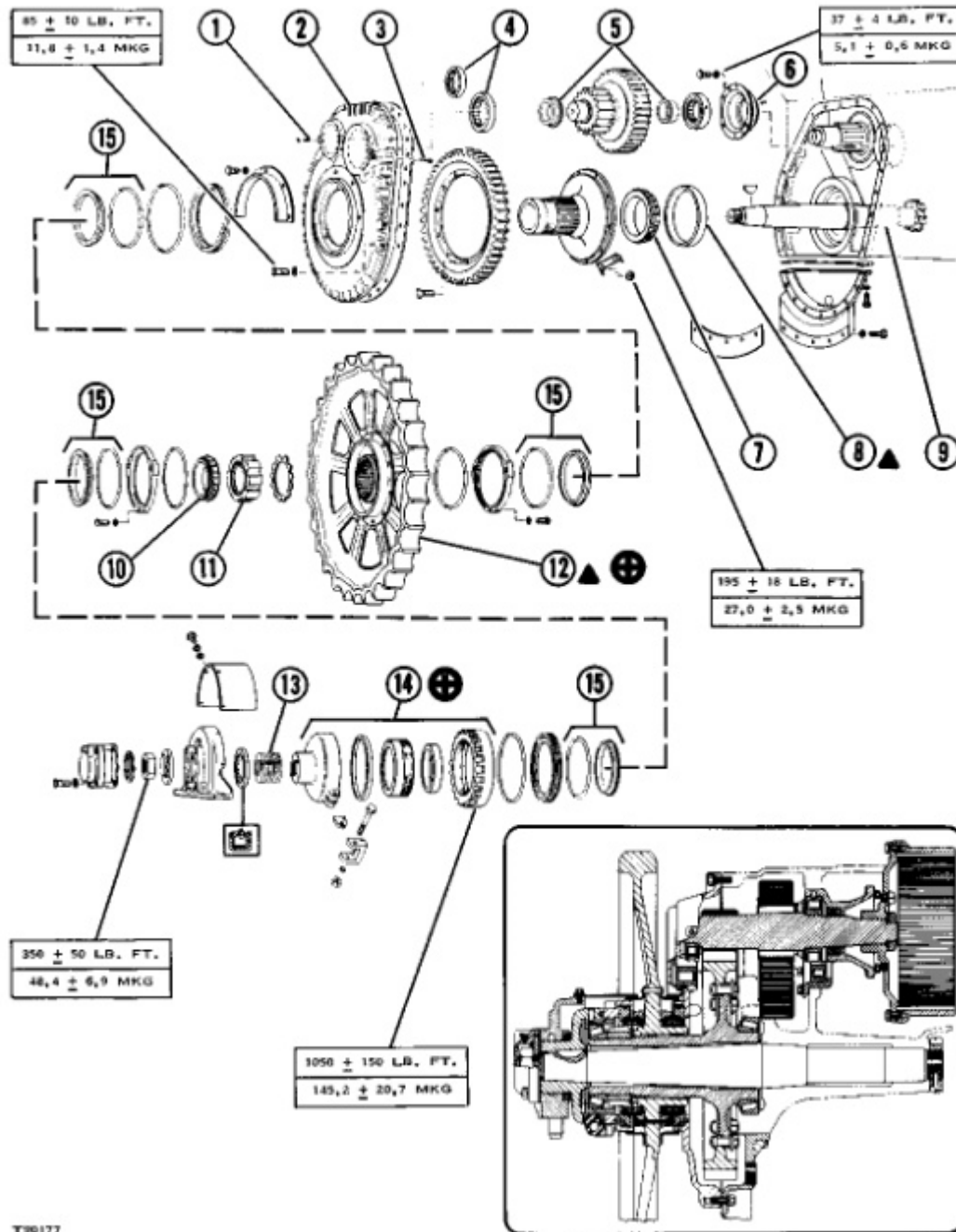


9-Duo-Cone floating seals (two). Remove the Duo-Cone floating seals for their protection. Use 9M5143 Seal Installer to remove or install Duo-Cone seals. One is in the retainer on the sprocket. The other is in a retainer in the adjusting nut. See the GENERAL INSTRUCTIONS for seal removal and installation. 10-Bolts (twenty-four).

11. Attach a hoist to the sprocket. Use two 3/8" -16 NC forcing screws to separate the final drive case from the steering clutch case.

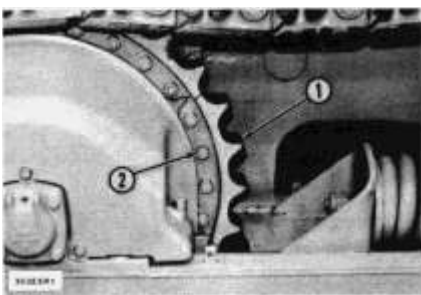


Final Drive Removal And Disassembly



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Sprocket Segment Removal And Installation



1. Remove sprocket guards.
2. Remove bolts and nuts (2) and remove sprocket segment (1).

3. At installation place machined side of segment (1) towards hub and head of retaining bolt against inside of hub.

4. Lubricate threads of bolts with high pressure lubricant or 9M3710 Anti-Seize Compound and tighten all nuts to 130 ± 30 lb. ft. ($19,0 \pm 4,1$ mkg), then tighten each nut an additional 1/3 turn.

See Tool Selection Chart for tools to remove solid sprocket hubs on later machines.

1, 3, 6 Remove dowels by inserting 1/4"-20 NC bolt into the dowels and pulling them out of the housing.

2 Use two 3/8"-16 NC forcing screws to separate final drive case from steering clutch case.

4 Remove bearings with an 8B7554 Puller and an 8B7552 Forcing Bolt.

5 Remove inner races by heating evenly with a torch so they will expand.

7 Remove cone using an 8H705 Puller.

8 Remove cup by arc welding a bead around its inside diameter causing it to shrink. Install new cup by chilling and driving into bore.

NOTICE

Make certain the ground lead is connected to the bevel gear case to prevent arcing through bearings.

9 Remove the sprocket shaft by removing the retainer nut under the steering clutch case and by using a 6F25 or 3S6224 Pump Group, 7F9831 Cylinder Group, 5F9888 Coupling Adapter, 5F9879 Adapter, 5F9892 Pin and a 5F9890 Sprocket Shaft Puller Group.

10 Remove cone by forcing it off the hub with the sprocket retaining nut. Use a 5F9693 Wrench, to turn the nut. Heat the cone to install on hub.

11 Use nut to force off cone then reinstall nut so there is about .25 in. (6,3 mm) between it and the sprocket.



WARNING

Be sure that the nut is installed as stated in item 11 to prevent the sprocket from jumping off the hub after it has broken loose from the press fit.

12 Remove sprocket using a 6F25 or 3S6224 Pump Group, 7F9831 Cylinder Group, 5F7694 Plug, three 5F9040 Arm Groups and two 7S9484 Spacer assemblies.

13 Shims used to align track roller frame with sprocket. See TRACK ROLLER FRAME ADJUSTMENT.

14



Replace sprocket shaft nut on the sprocket shaft with some space between it and the holder assembly (14). This prevents the holder assembly from jumping off the shaft after it has broken loose from the taper fit.

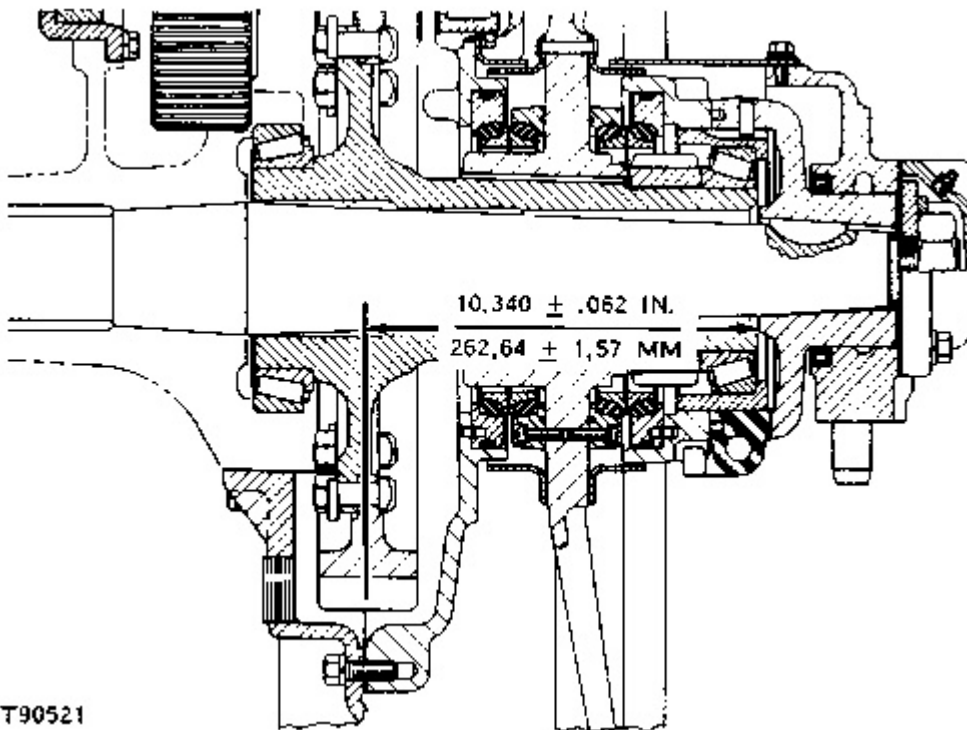
Turn the final drive adjusting nut clockwise with a 7F9306 Spanner Wrench to remove the bearing cage holder assembly.

15 Use a 9M5143 Seal Installer to remove or install Duo-Cone seals.

Final Drive Assembly

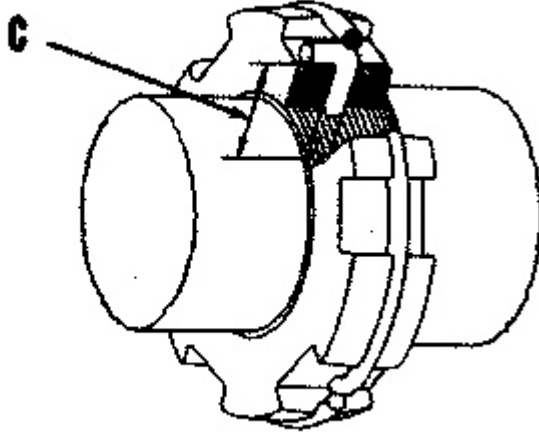
Sprocket Shaft Installation

Using a 5F9889 Plug, 5F9885 Adapter (threaded against the shoulder on the sprocket shaft), and a 5F9892 Pin, drive the sprocket shaft into the bevel gear case (with the key slot facing upward) until the distance between the face of the outer bearing cage holder (hand held in place on the taper of the sprocket shaft) and the parting line between the final drive case and the bevel gear case is $10.34 \pm .062$ in. (262.64 ± 1.57 mm).



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Install the sprocket shaft retainer nut and tighten securely. To lock in place, drill a 5/16" hole through one of the notches in the nut through the nut and into the shaft to a total depth of 1.14 in. (30,2 mm).



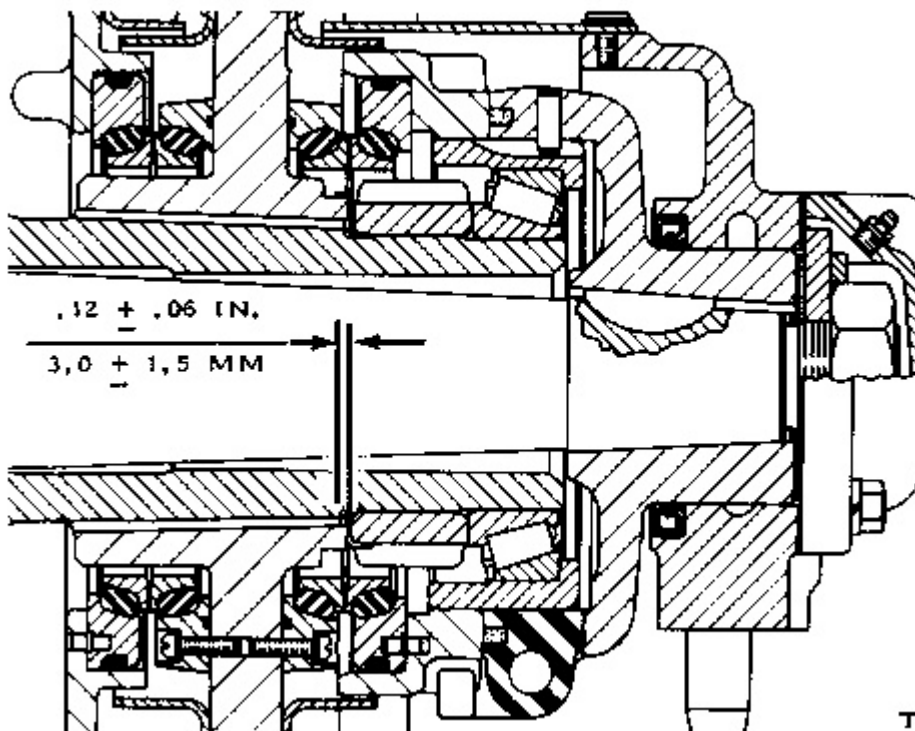
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This drawing shows locking of the sprocket shaft retaining nut. C-5/16" drill, 1.14 in. (30,2 mm) deep.

Place the pin in the hole and install the snap ring to hold the pin in place.

Sprocket Installation

To install the sprocket use a 5F9879 Adapter, 5F9888 Coupling Adapter, 7F5288 Pusher Group, 7F9831 Cylinder Group, 5F9892 Coupling Pin and a 6F25 or 3S6224 Pump Group. Press the sprocket onto the hub with a pressure of 35-40 tons (31,7-36,3 M. tons). The distance between the face of the sprocket hub and the shoulder of spline should be $.12 \pm .06$ in. ($3,0 \pm 1,5$ mm).



T90522

Final Drive Bearing Preload Adjustment

Preload the final drive bearings by turning the adjusting nut counterclockwise with a 7F9306 Spanner Wrench. Apply a torque of 1050 ± 150 lb. ft. ($145,2 \pm 20,7$ mkg).

For an illustrated step-by-step procedure, see the MAINTENANCE GUIDE.

Product: TRACK LOADER

Model: 955K TRACK LOADER 85J

Configuration: 955L TRAXCAVATOR 85J09510-UP (MACHINE) POWERED BY 3304 ENGINE

Disassembly and Assembly 955K TRACK-TYPE LOADER POWER TRAIN

Media Number -REG00861-00

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Undercarriage

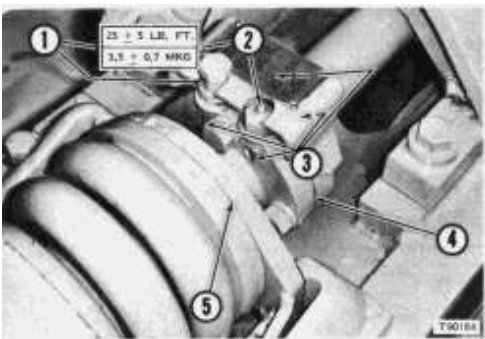
SMCS - 1405-016

Relieving Track Tension



Be certain the hydraulic pressure in the track adjusting mechanism is completely relieved and the cylinder can be moved to the rear into the recoil spring front pilot before attempting to separate the track or remove the track adjusting mechanism.

Release the pressure in the hydraulic track adjuster cylinder, WITH CAUTION as given in the following steps:



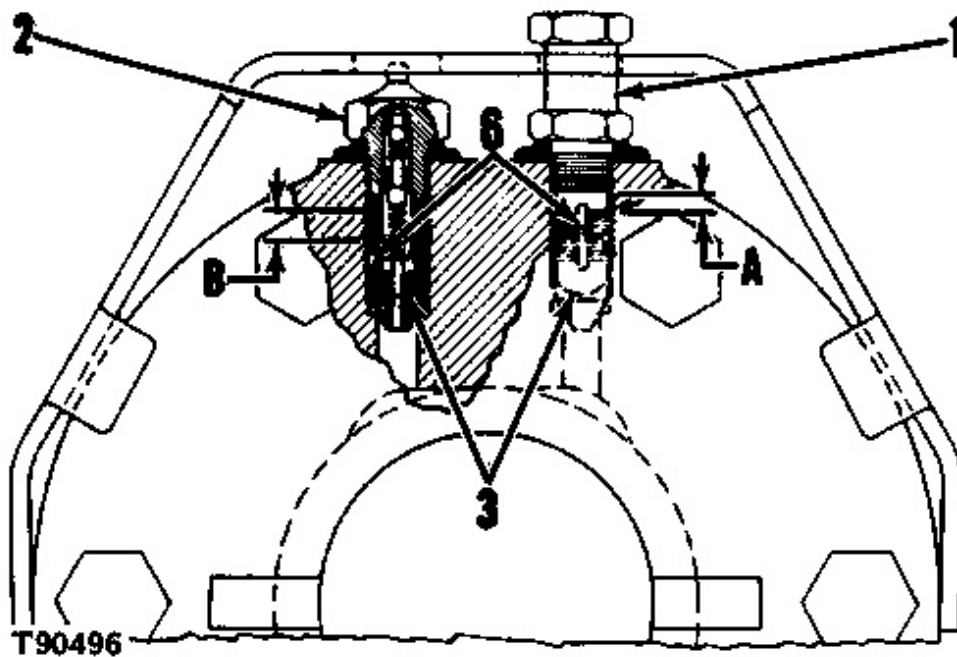
This is a view of the hydraulic track adjuster. Items indicated are: 1-Relief valve. 2-Fill valve. 3-Vent holes. 4-Cylinder. 5-Recoil spring front pilot.



Because of the hydraulic pressure in the track adjuster cylinder, never visually inspect the vent holes and valves to see if lubricant is escaping.

Always observe the cylinder to see that it moves to the rear into the recoil spring front pilot.

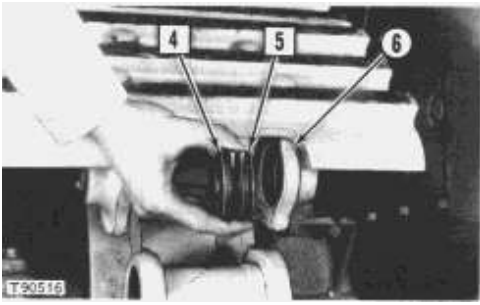
1. Turn relief valve counterclockwise one turn to allow lubricant to escape from vent hole just below RELIEF valve. Wait momentarily. If the cylinder does not retract turn FILL valve counterclockwise one turn.
2. If the cylinder does not retract into the front pilot, loosen the RELIEF valve until it contacts the underside of the guard. Lubricant should escape through slot in the lower section of threads.
3. If the cylinder does not retract loosen FILL valve until it contacts the underside of the guard. Lubricant should then escape through slot in the lower section of threads.
4. If the cylinder does not retract into the front pilot, the machine should be started and moved forward and backward.
5. If moving the machine does not cause the cylinder to retract, insert a draw bar pin between the track and sprocket. Move the machine backward so the track will be forced upward by the pin. This will apply additional tension to the track.



This is a drawing of the track adjuster mechanism. The items indicated are: 1-Relief valve. 2-Fill valve. 3-Vent holes. 6-Slots. A-Unthreaded section, relief valve. B-Unthreaded section, fill valve.

Separating Track

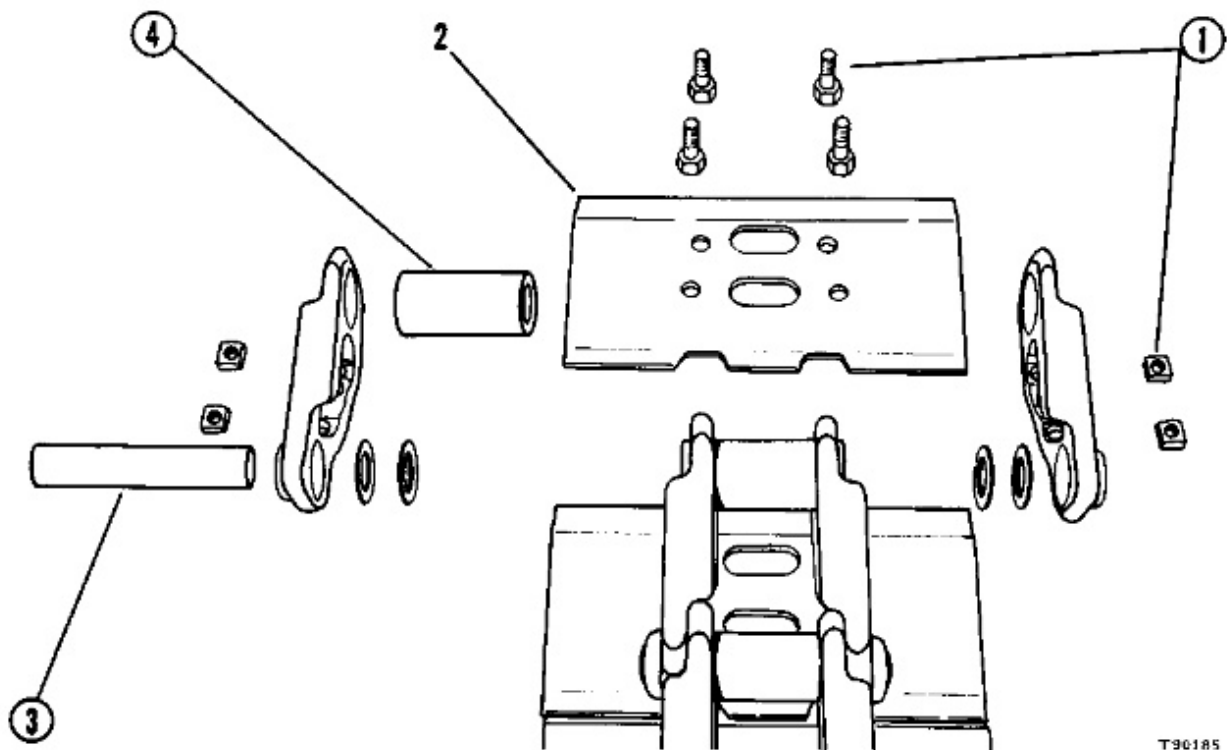
1. Relief track tension.
2. Remove the master pin using the 2S8210 Track Tool Group.
3. Separate the track.



4-Spacers (two). 5-Coned disc seal washers (four). 6-Master links (two).

7. Back the machine slowly, allowing the track to ride over the carrier roller and off the sprocket.

Track Disassembly



T90185

1 At assembly tighten track shoe bolts to a torque of 130 ± 30 lb. ft. ($18 \pm 4,1$ mkg) plus an additional $1/3$ turn. Install nuts with rounded corners next to the track link.

3 Remove and install pins with 2S8210 Track Tool Group.

4 Remove and install bushings with 2S8210 Track Tool Group. When installing the master bushing the ends should be flush with the outside faces of the links. Other bushings should protrude past the outside face of the links $.321 \pm .005$ in. ($8,15 \pm 0,13$ mm).

Installing Track

1. Back the machine until the sprocket is just ahead of the master links of the track.

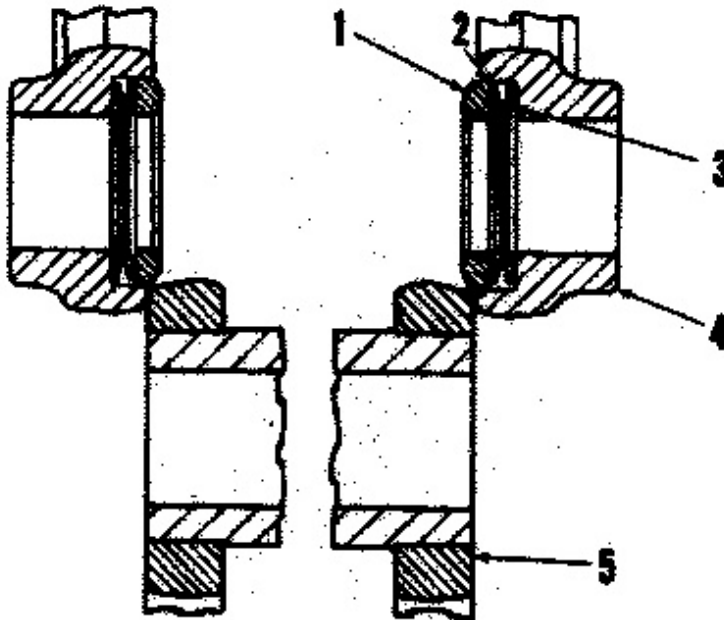
2. Insert a bar into the links and help the track climb over the sprocket. Drive the machine forward slowly.



WARNING

Always hold the bar as illustrated.

3. Continue to carry the track over the rollers and front idler. Carry track high enough to clear carrier rollers.
4. Place a block under the first shoe, drive forward until master links and track links are about 1 in. (25,4 mm) apart. Install the coned disc seal washers and spacer in each master link.

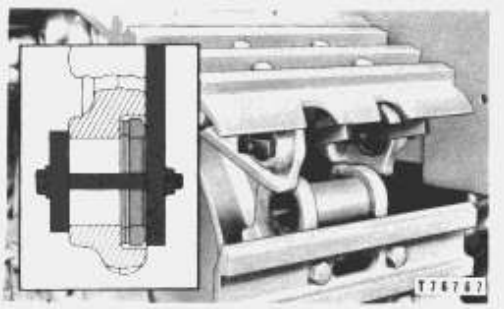


T 7 5 9 1 4

This drawing shows the installation of coned disc seal washers and spacers. The parts pointed out are: 1-Spacers (two). 2 and 3-Coned disc seal washers (four). 4-Master links (two). 5-Track links (two).

5. Install each set of coned disc seal washers (as shown) with the inside diameters in contact. Install spacers (as shown) with beveled edges toward one another.

6. Assemble FT573 Holding Tool (Fabricated Tool) onto master links and tighten each bolt to compress seal washers. The spacers will be flush with inner face of links when seal washers are properly compressed.

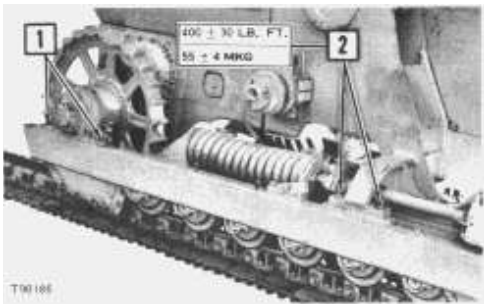


7. Move the machine forward and drive the track together until the spacers are held in place by track links.

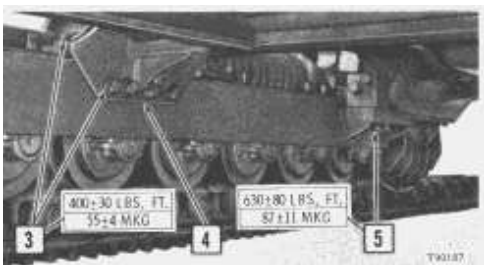
8. Remove the holding tool. Align the holes and install the master pin.

9. Adjust the track tension. See MAINTENANCE GUIDE.

Track Roller Frame Removal And Installation

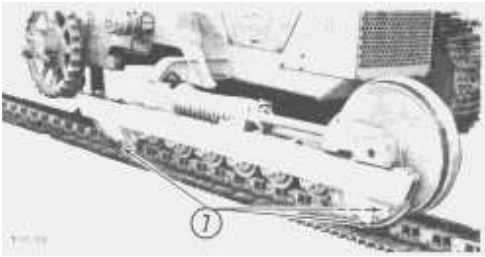


1-Bolts (four). 2-Bolts. At installation lubricate threads with a thick mixture of oil and flowers of sulphur or an equivalent lubricant.



3-Bolts (nine). At installation lubricate threads with a thick mixture of oil and flowers of sulphur or an equivalent lubricant. 4-Shims. For parallel alignment of track roller frames. 5-Bolts (six). At installation lubricate threads with a thick mixture of oil and flowers of sulphur or equivalent lubricant.

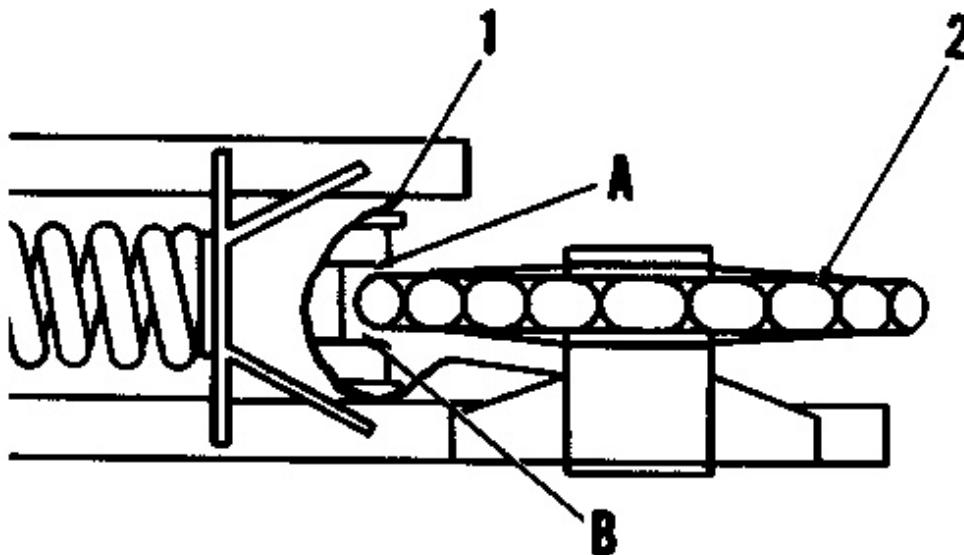
6. Raise the side of the machine about 6 in. (152,4 mm); block securely. Remove the track roller frame by rolling it forward along the track.



7-Track roller frame replaceable wear strips.

Alignment Of Track Roller Frames

Aligning Track Roller Frame with Sprocket



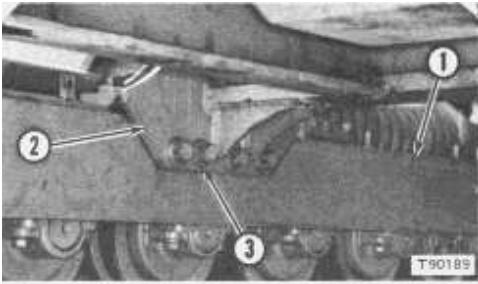
T 4 5 8 0 6

The items involved in aligning the sprocket and track roller frame are: 1-Rear track roller. 2-Drive sprocket. A-Clearance. B-Clearance.

1. Center the recess of the rear track roller so the clearances between the sprocket and either edge of the track roller rim are equal.
2. Add shims (see FINAL DRIVE DISASSEMBLY) between the washer assembly and the holder assembly to move the roller frame out, decreasing the clearance (A). Remove shims between the washer assembly and the holder assembly to allow the roller frame to move in, decreasing clearance (B).

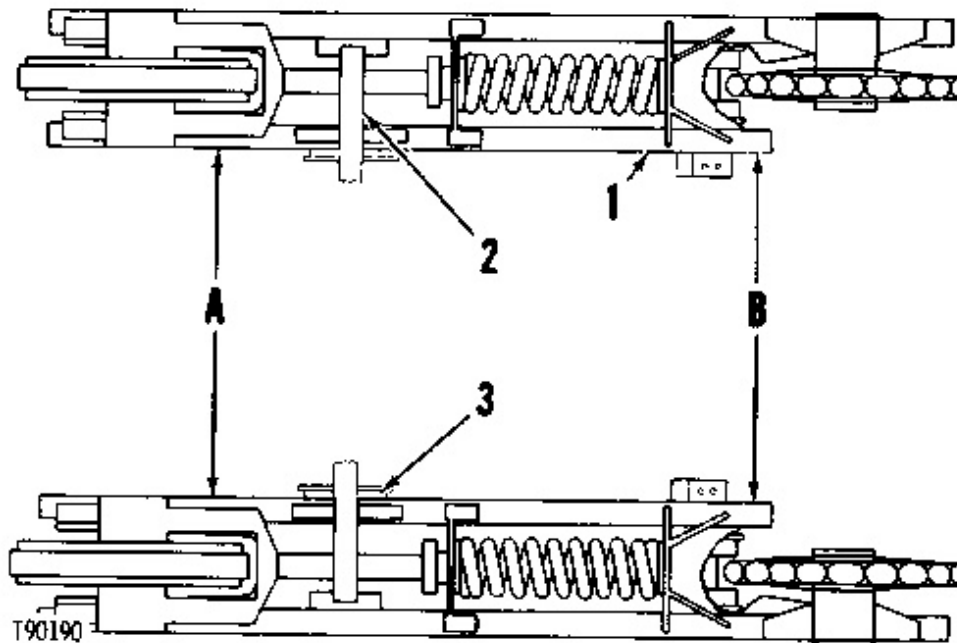
Parallel Alignment of Track Roller Frames

1. Align the track roller frames with the sprockets.
2. Measure the distance between the insides of the track roller frame channels at the rear.



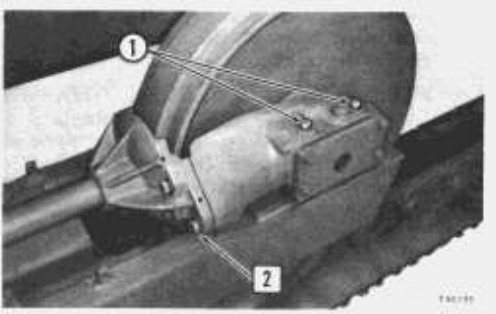
The parts involved in parallel adjustment are: 1-Track roller frame. 2-Loader frame support. 3-Shims.

3. Measure the distance between the insides of the track roller frame channels just in front of the loader frame support.
4. Install shims between each end of the loader frame support and the roller frames so the distance in front is within .12 in. (3,05 mm) of the distance measured at the rear.
5. Install and tighten the bolts securing the loader frame support to the track roller frames and again check the distances.

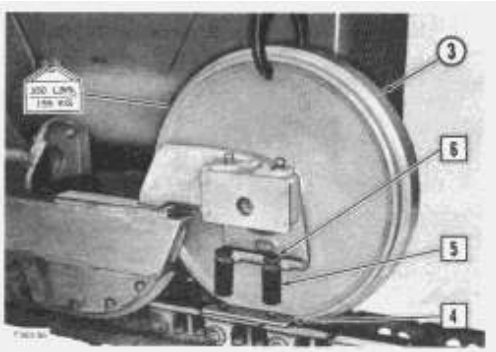


The items involved in parallel adjustment of the track roller frames are: 1-Track roller frame. 2-Loader frame support. 3-Shims. A-Distance between roller frames at front. B-Distance between roller frames at rear.

Front Idler Removal And Installation

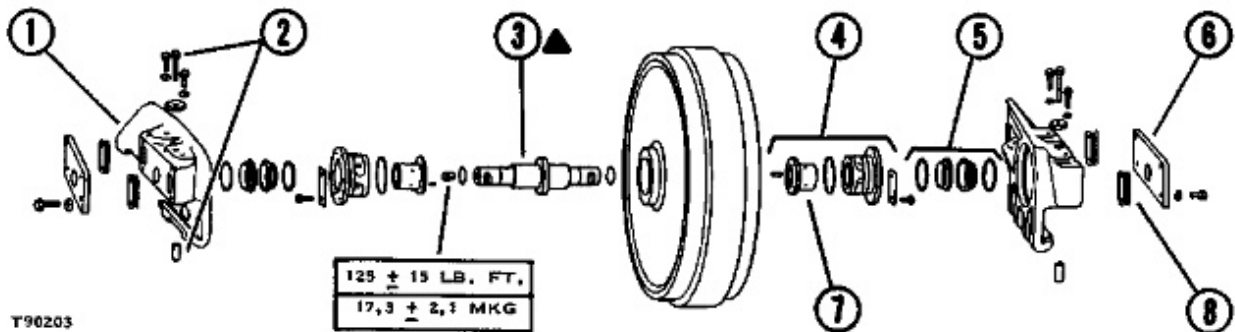


1-Bolts (four). Loosen until spring pressure is relieved.



3-Front idler. Attach hoist and remove by moving forward. 4-Plates (two). 5-Spring assemblies (four). 6-Plates (four).

Front Idler Disassembly



- 1 Apply 9M3710 Anti-Seize Compound in bearing bores and on bearing contact surfaces of shaft.
- 2 Tighten bolts to a torque of 40 lb. ft. (5,5 mkg). Seat tapered lockpins with a punch and hammer, then retighten bolts to a torque of 50 ± 10 lb. ft. (6,9 ± 1,3 mkg).
- 3 Oil hole on plug end of shaft to be assembled up.
- 4 Coat the outside diameter of the bushing assemblies with white lead. Use FT578 Alignment Tool Group (Fabricated Tool) to insure alignment of bolt holes.
- 5 Use 5M2196 Seal Installer to remove and install Duo-Cone seals.
- 6, 8 Use shims to align the front idler with the track. If the idler is too far toward the outside, move shims from the bearing at the inner end of the idler hub to the outer bearing. If the idler is too far toward the inside, reverse the process. After alignment, .06 in. (1,52 mm) should be maintained between each plate and track roller frame by using shims.

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