

Product: WHEEL LOADER

Model: 980C WHEEL LOADER 2XD

Configuration: 980C WHEEL LOADER 2XD00001-UP (MACHINE) POWERED BY 3406 ENGINE

Disassembly and Assembly 980C WHEEL LOADER POWER TRAIN

Media Number -SEN7757-02

Publication Date -01/04/1984

Date Updated -02/10/2009

SEN77570012

Front Support

SMCS - 3268-11; 3268-12

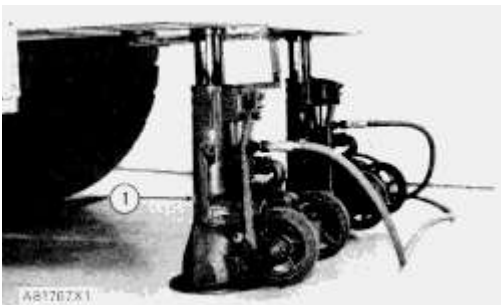
Remove Front Support

Tools Needed	A
OTC Model 1790 Transmission Jack	1

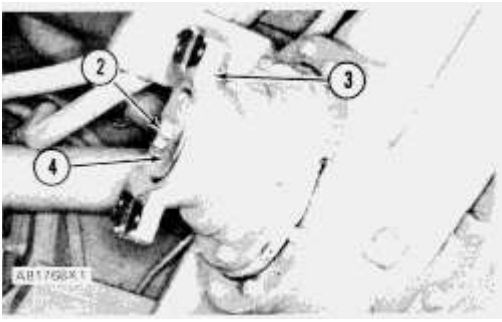
START BY:

- a. remove rear drive shaft
- b. remove crankcase guards (front section only)*
- c. connection of anti-pivot link

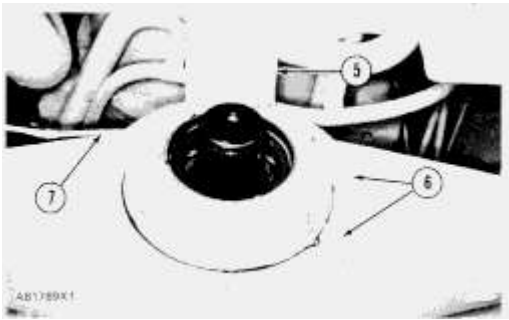
*This operation is in the 3406 Vehicular Engine For 980C Wheel Loader, Disassembly And Assembly section.



1. Put two 50 ton screw jacks (1) under the rear of the machine as shown.

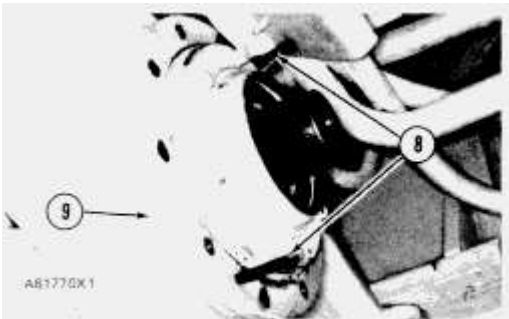


2. Remove bolt (2) and retainer (4). Remove yoke (3) and O-ring seals from the rear differential.

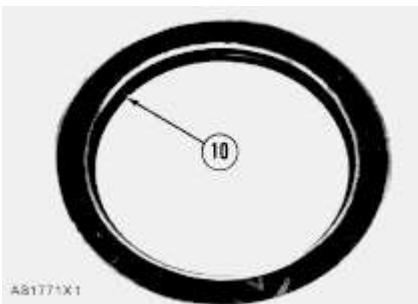


3. Disconnect grease line (7) from the top of the support.

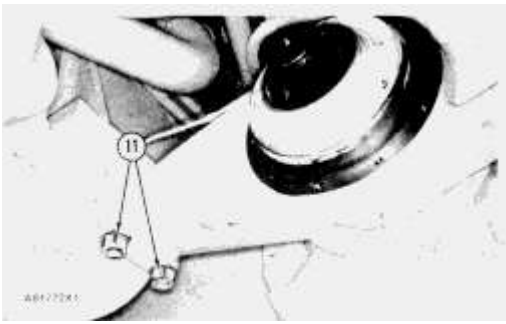
4. Remove bolts (6) from the retainer. Push bracket (5) clear of the support.



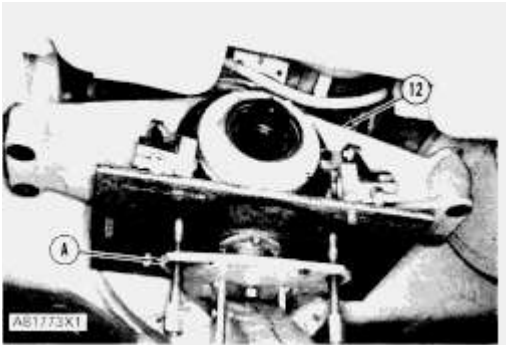
5. Install two 3/8"-16 NC forcing screws (8) in the retainer as shown. Remove retainer (9) from the support.



6. Remove seal (10) and the gasket from the retainer.



7. Remove two bolts, nuts and washers (11) from each side of the front support.
8. Loosen the nuts that hold the rear support to the frame approximately 12.7 mm (.50 in.).



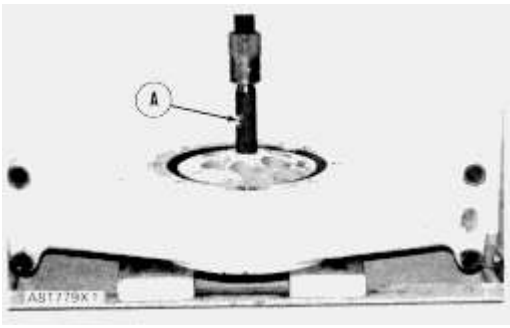
9. Fasten tool (A) to the front support as shown. Lift the rear of the machine with the 50 ton screw jacks to a height of approximately 939.8 mm (37 in.). Remove front support (12) from the machine. The weight of the front support is 53 kg (118 lb.).



10. Remove bearing (14) and seal (13) from the support.

Install Front Support

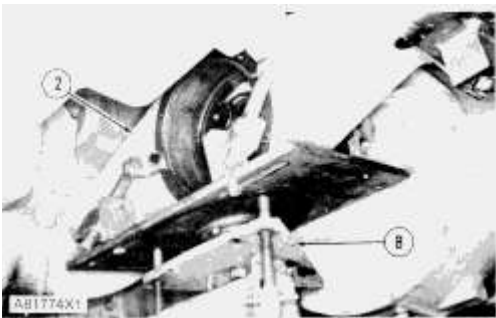
Tools Needed		A	B
FT885	Driver Body	1	
	OTC Model 1790 Transmission Jack		1



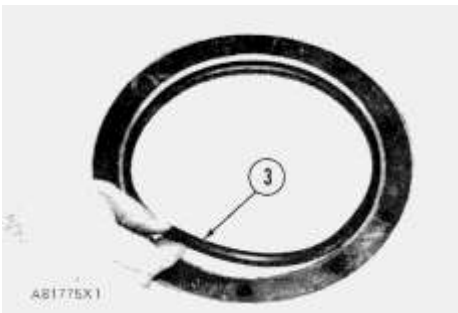
1. Use tool (A) and a press to install the bearing in the front support.



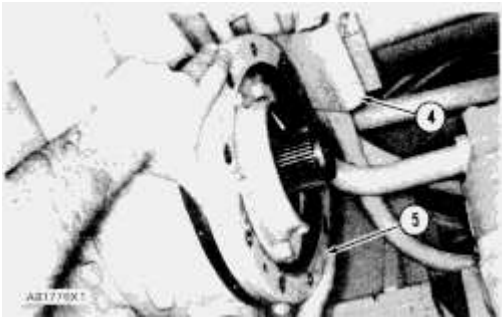
2. Install seal (1). Put a small amount of 5P960 Multipurpose Type Grease on the seal.



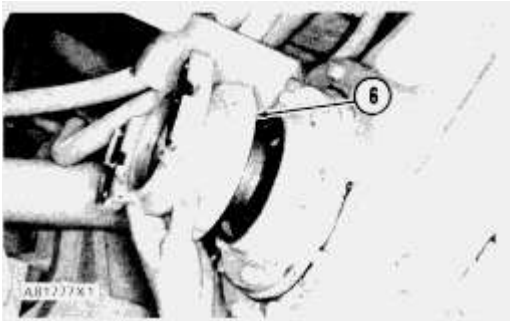
3. Fasten tooling (B) to the front support as shown. Put 5P960 Multipurpose Type Grease on the trunnion. Put front support (2) in position on the trunnion. Lower the machine with the 50 ton screw jacks until the front support makes contact with the frame. Install the bolts and nuts that hold the front support to the frame. Tighten the bolts to a torque of $1140 \pm 100 \text{ N}\cdot\text{m}$ ($840 \pm 74 \text{ lb}\cdot\text{ft}$). Tighten the bolts that hold the rear support to a torque of $1140 \pm 100 \text{ N}\cdot\text{m}$ ($840 \pm 74 \text{ lb}\cdot\text{ft}$). Remove the 50 ton screw jacks from under the machine.



4. Install a new gasket and seal (3) on the retainer. Put a small amount of 5P960 Multipurpose Type Grease on the seal.



5. Install retainer (5) on the front support. Put bracket (4) in position on the retainer. Install the bolts that hold the retainer.



6. Install yoke (6) on the pinion shaft. Install the retainer and bolt that hold it. Tighten the bolt to a torque of $360 \pm 45 \text{ N}\cdot\text{m}$ ($265 \pm 33 \text{ lb}\cdot\text{ft.}$).

END BY:

- a.** install crankcase guards (front section only)*
- b.** install rear drive shaft
- c.** separation of anti-pivot link

*This operation is in the 3406 Vehicular Engine For 980C Wheel Loader, Disassembly And Assembly section.

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Disassembly and Assembly 980C WHEEL LOADER POWER TRAIN

Media Number -SEN7757-02

Publication Date -01/04/1984

Date Updated -02/10/2009

SEN77570013

Rear Support

SMCS - 3268-11; 3268-12

Remove Rear Support

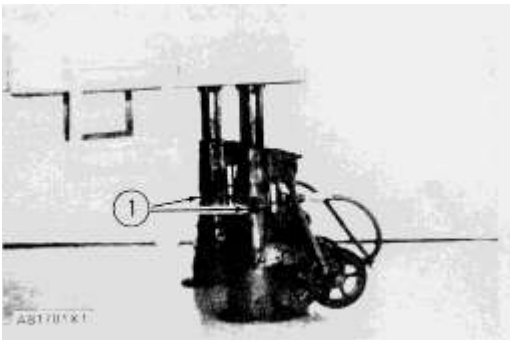
Tools Needed	A
OTC Model 1790 Transmission Jack	1

START BY:

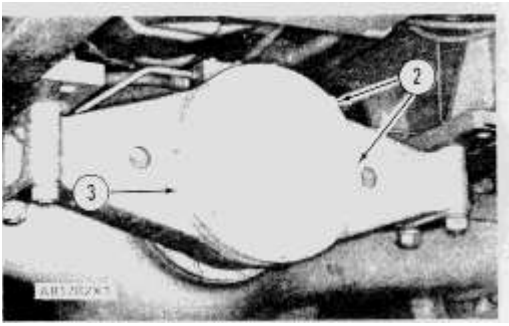
- a. remove crankcase guards (front section only)*
- b. connection of anti-pivot link

*This operation is in the 3406 Vehicular Engine For 980C Wheel Loader, Disassembly And Assembly section.

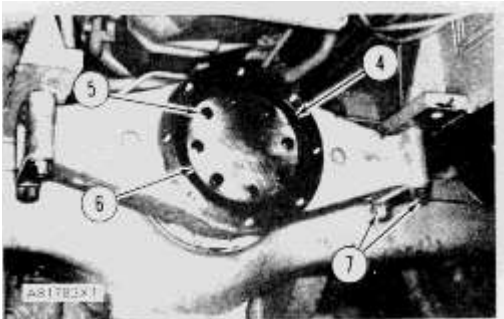
1. Drain the oil from the rear differential.



2. Put two 50 ton screw jacks (1) in position under the rear of the machine as shown.

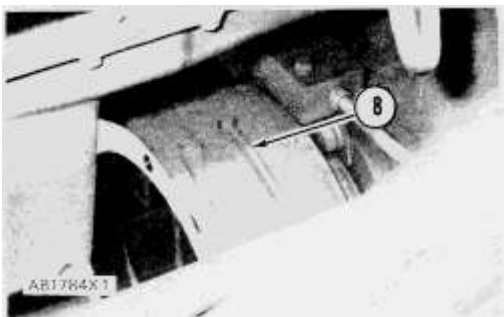


3. Remove bolts (2). Remove cover (3) from the support. Remove the gasket from the back of the cover.

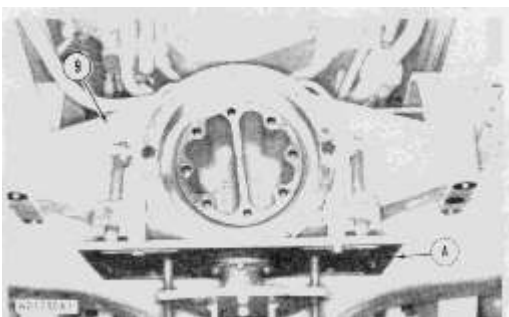


4. Remove washer (4). Remove bolts (5), and remove plate (6). Remove the washer from behind the plate.

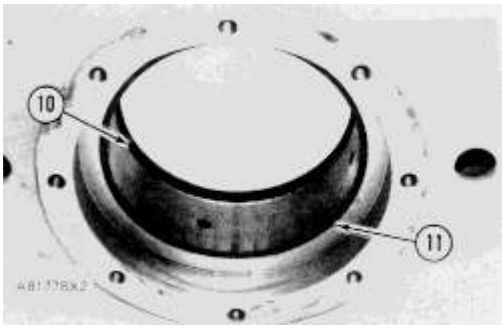
5. Remove bolts and nuts (7) from each side of the rear support. Loosen the bolts and nuts that hold the front support to the frame approximately 12.7 mm (.50 in.).



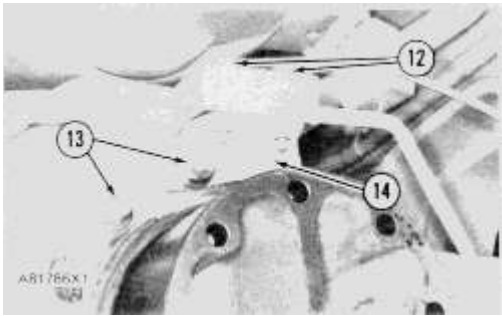
6. Disconnect grease line (8) from the top of the rear support.



7. Fasten tool (A) to the rear support as shown. Lift the rear of the machine with the two 50 ton screw jacks to a height of approximately 939.8 mm (37 in.). Remove rear support (9) with tool (A).



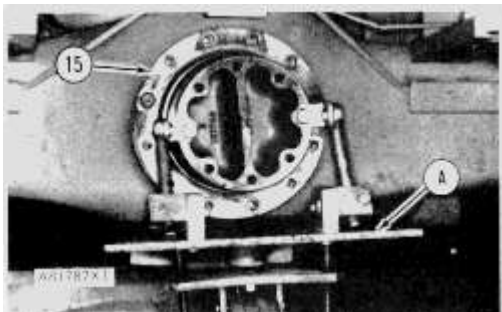
8. Remove seal (10) and bearing (11) from the rear support.



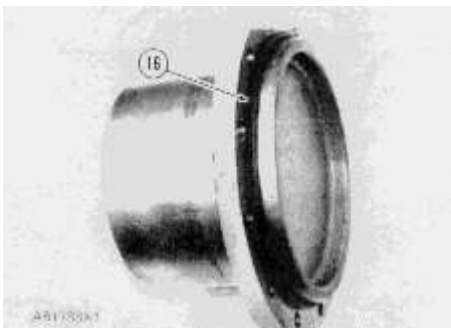
9. Remove bolts (12) that hold the block to the bracket.

10. Remove all bolts (13) that hold the trunnion to the axle housing except for two that are 180° apart.

11. Remove bracket (14).



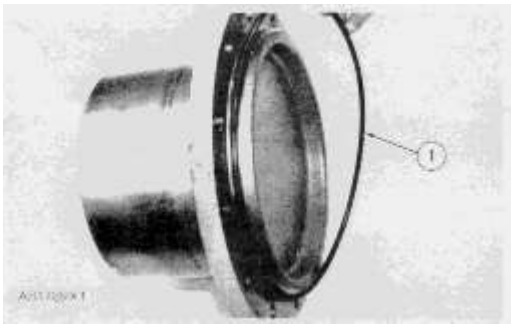
12. Fasten tool (A) to the trunnion as shown. Remove the remainder of the bolts that hold the trunnion. Remove trunnion (15) with tool (A). The weight of the trunnion is 34 kg (75 lb.).



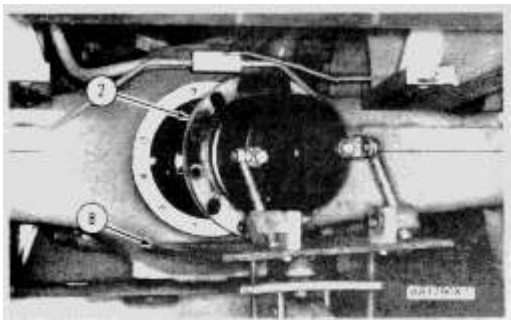
13. Remove seal (16) from the trunnion.

Install Rear Support

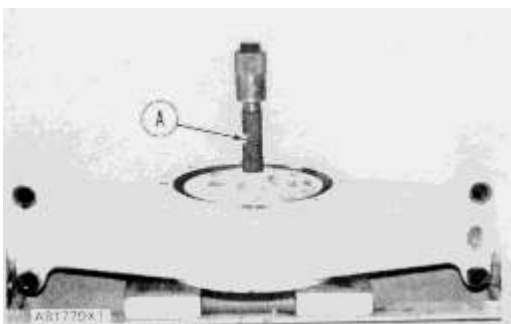
Tools Needed		A	B
FT885	Driver Body	1	
	OTC Model 1790 Transmission Jack		1



1. Install seal (1) on the trunnion. Put a small amount of clean SAE 90 oil on the seal.



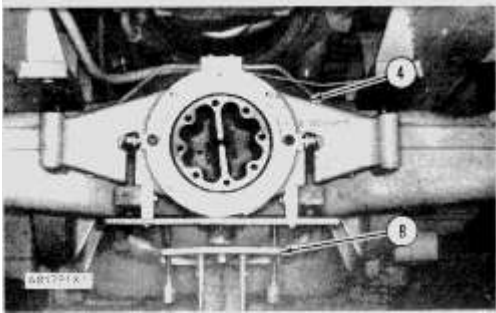
2. Fasten tool (B) to the trunnion. Install trunnion (2) in the axle housing with tool (B).



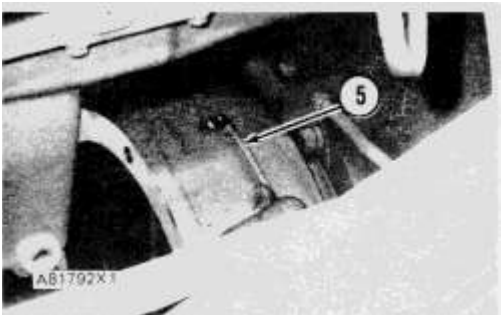
3. Use tool (A) and a press to install the bearing in the rear support.



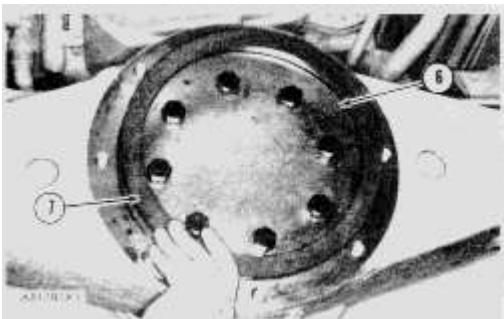
4. Install seal (3) in the rear support. Put a small amount of 5P960 Multipurpose Type Grease on the seal.



5. Put 5P960 Multipurpose Type Grease on the trunnion. Fasten tool (B) to the rear support. Install rear support (4) on the trunnion with tool (B). Use the two 50 ton screw jacks to lower the machine until the rear support makes contact with the frame. Install the bolts and nuts that hold the rear support. Tighten the bolts to a torque of $1140 \pm 100 \text{ N}\cdot\text{m}$ ($840 \pm 74 \text{ lb}\cdot\text{ft.}$). Tighten the bolts that hold the front support to a torque of $1140 \pm 100 \text{ N}\cdot\text{m}$ ($840 \pm 74 \text{ lb}\cdot\text{ft.}$). Remove the 50 ton screw jacks.



6. Connect grease line (5) to the top of the rear support.



7. Install washer, plate (6) and washer (7) in the rear support. Tighten the bolts that hold the plate to a torque of $260 \pm 25 \text{ N}\cdot\text{m}$ ($190 \pm 18 \text{ lb}\cdot\text{ft.}$).

8. Install the O-ring seal on the cover for the rear support. Install the cover on the rear support.

9. Fill the rear differential with SAE 90 oil to the correct level. See the Maintenance Guide.

END BY:

a. install crankcase guards (front section only) *

b. separation of anti-pivot link

*This operation is in the 3406 Vehicular Engine For 980C Wheel Loader Engine, Disassembly And Assembly section.

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Model: 980C WHEEL LOADER 2XD

Configuration: 980C WHEEL LOADER 2XD00001-UP (MACHINE) POWERED BY 3406 ENGINE

Disassembly and Assembly 980C WHEEL LOADER POWER TRAIN

Media Number -SEN7757-02

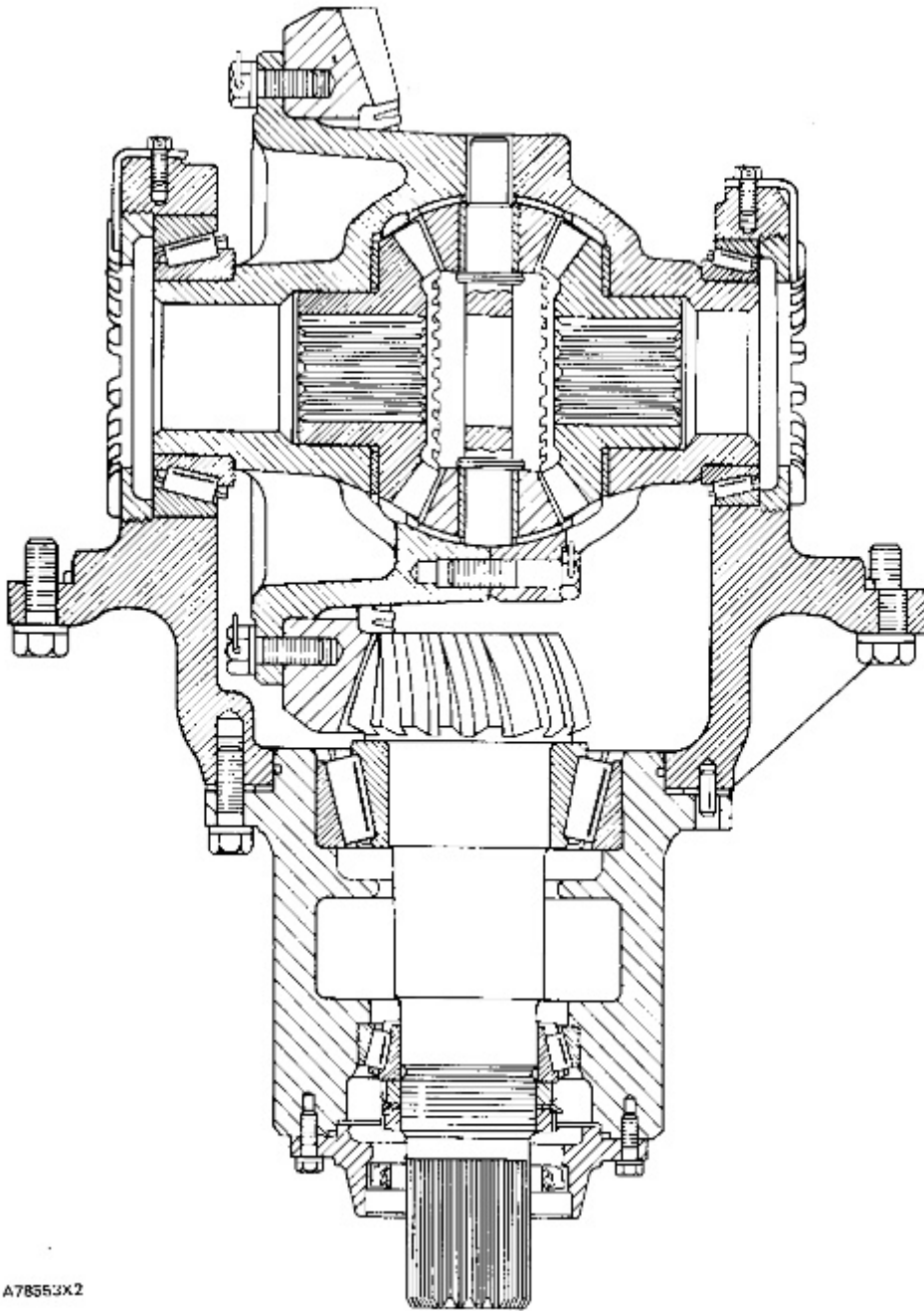
Publication Date -01/04/1984

Date Updated -02/10/2009

SEN77570014

Front Differential And Bevel Gear

SMCS - 3256-11; 3256-12; 3258



A78553X2

Remove Front Differential And Bevel Gear

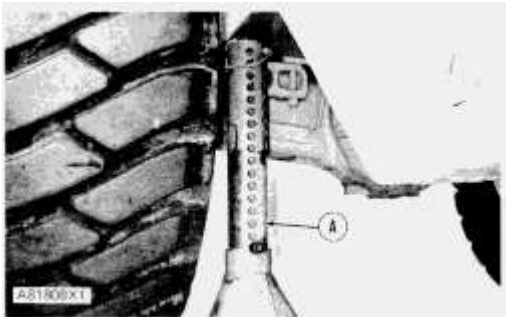
Tools Needed		A	B
8S7621	Tube	2	
8S7615	Pin	2	
8S7640	Stand	2	
OTC Model 1790 Transmission Jack			1

START BY:

- a. remove drive axles (front only)
 - b. remove front drive shaft
1. Drain the oil from the front axle housing.

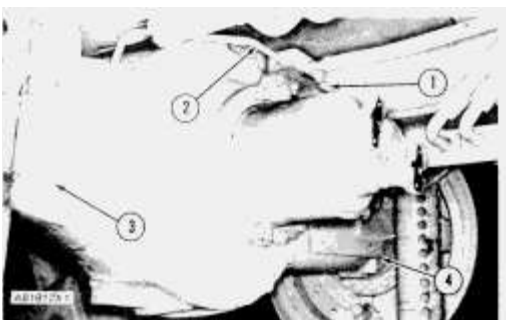


Connect the anti-pivot link to the main frames of the machine before the machine is lifted.

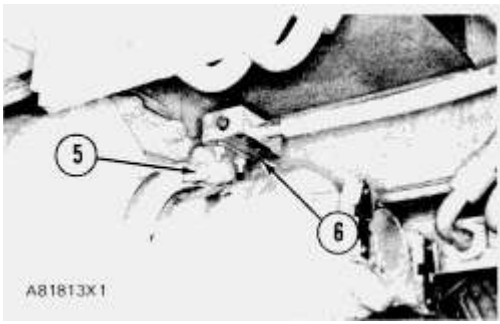


Keep clear of the machine when tooling (A) is installed under the machine, and when the machine is lowered on to tooling (A).

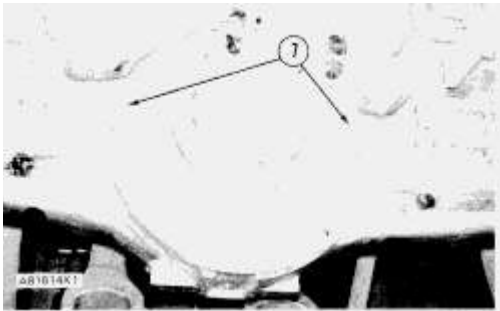
2. Put wood blocks behind the rear wheels. Use the bucket of the machine to lift the front to a height of approximately 1143 mm (45 in.). Install tooling (A) under the front of the machine as shown.



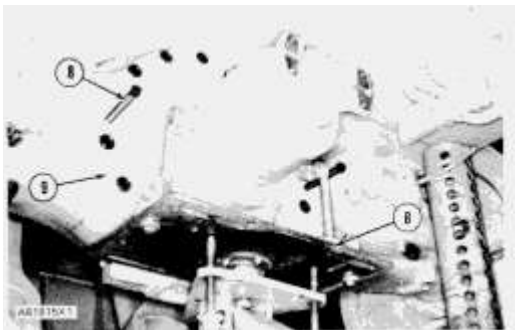
3. Remove brackets (3) and (4) from the axle housing.
4. Remove tube assemblies (1) and (2).



5. Remove two bolts (5) that hold the bracket to the differential. Put bracket, block (6) and hose clear of the differential.



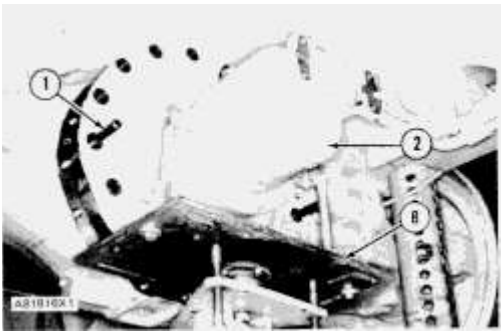
6. Remove the bolts that hold the differential and bevel gear to the axle housing, except for bolts (7).



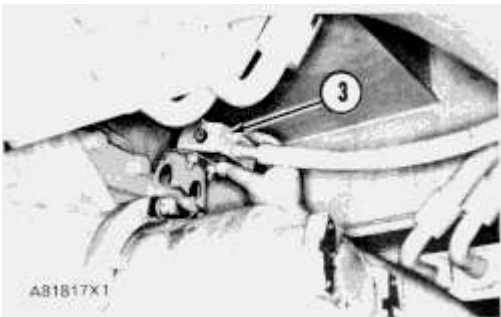
7. Fasten tool (B) to the differential and bevel gear as shown. Remove the remainder of the bolts from the differential. Install two 3/4"-10 NC forcing screws (8), and loosen the differential and bevel gear from the axle housing. Use tool (B) to remove front differential and bevel gear (9). The weight of the differential and bevel gear is 279 kg (615 lb.).

Install Front Differential And Bevel Gear

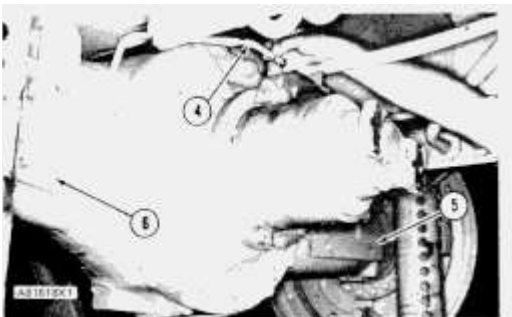
Tools Needed		A	B
8S7621	Tube	2	
8S7615	Pin	2	
8S7640	Stand	2	
	OTC Model 1790 Transmission Jack		1



1. Fasten tool (B) to the differential and bevel gear. Install two 3/4"-10 NC guide pins (1) in the axle housing as shown. Use tool (B) to install front differential and bevel gear (2) in the axle housing.



2. Install the bracket, block (3) and the hose on the top of the differential.



3. Install tube assemblies (4). Install brackets (6) and (5) on the axle housing.



Keep clear of the machine when tooling (A) is removed.

4. Use the bucket to lift the front of the machine. Remove tooling (A). Lower the machine to the floor.

5. Fill the front axle housing with SAE 90 oil to the correct level. See the Maintenance Guide.

6. Remove (bleed) the air from the brake system. See 980C Wheel Loader Air System And Brakes, Testing And Adjusting, Form No. SENR7762.

END BY:

a. install front drive shaft

b. install drive axles (front only)

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Media Number -SEN7757-02

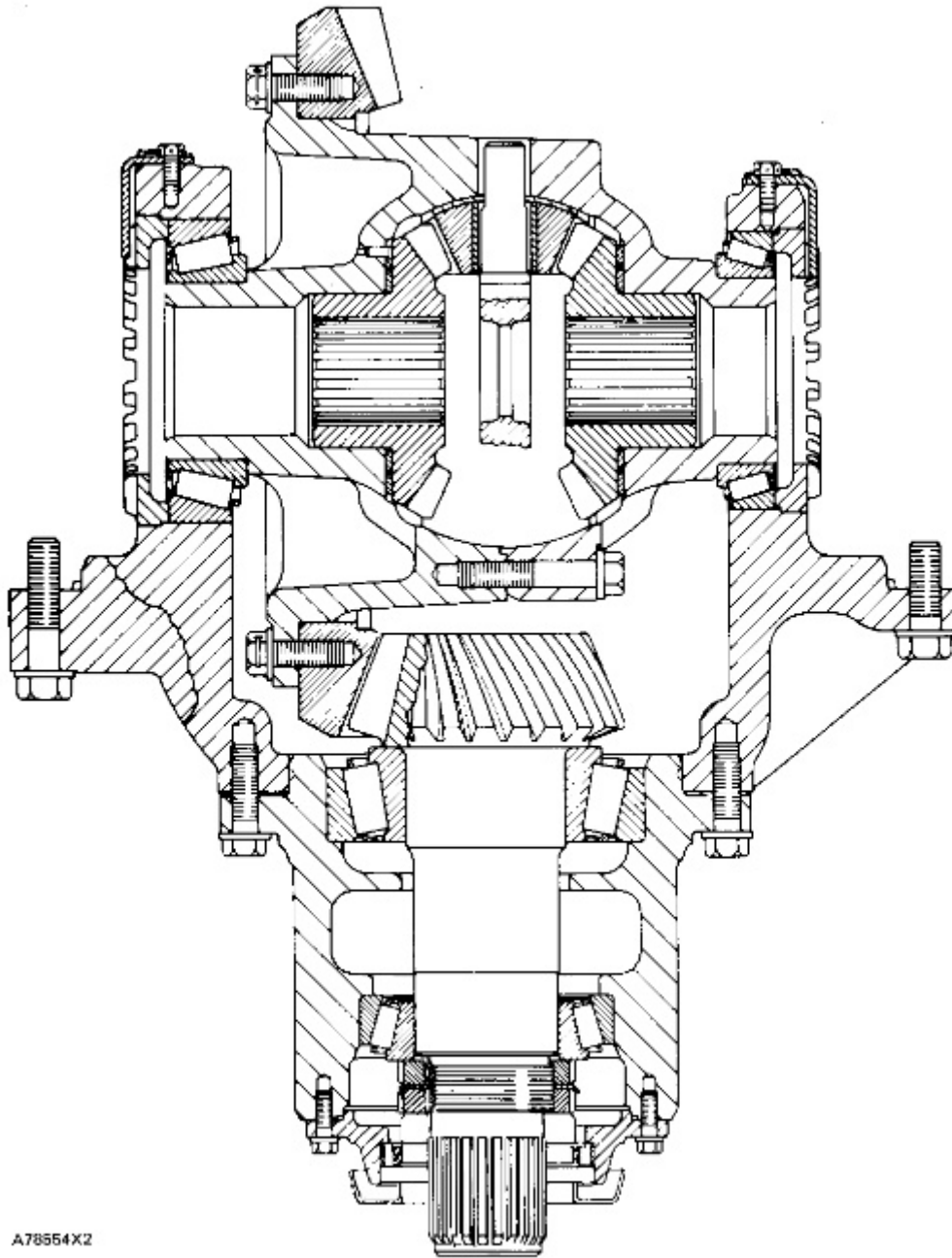
Publication Date -01/04/1984

Date Updated -02/10/2009

SEN77570015

Rear Differential And Bevel Gear

SMCS - 3256-11; 3256-12; 3258



A78854X2

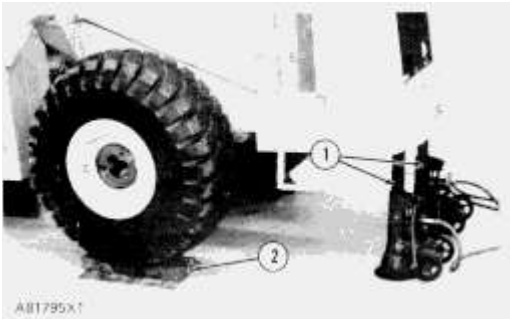
Remove Rear Differential And Bevel Gear

Tools Needed	A
OTC Model 1790 Transmission	1

START BY:

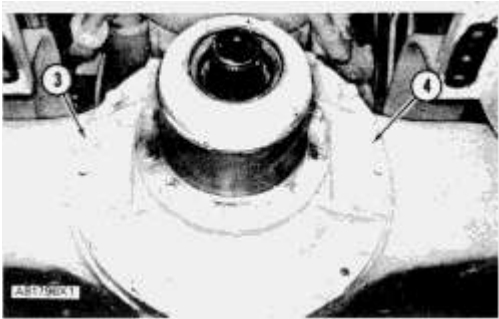
- a. remove rear drive shaft
- b. remove drive axles
- c. remove front support*

*Do Step 1 before this operation is done.

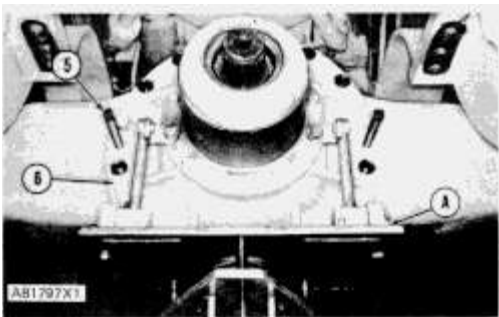


1. Use two 50 ton screw jacks (1) to lift the rear of the machine to a height of approximately 1092 mm (43 in.). Put 6 in. thick wood blocks (2) under the rear wheels as shown. This will give the clearance needed to remove the differential from under the machine. Lower the machine on to the blocks.

2. Drain the oil from the rear axle housing.



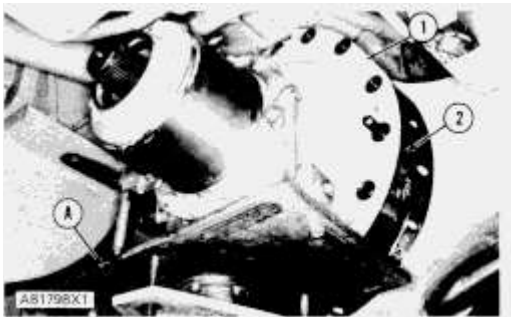
3. Remove all the bolts that hold the rear differential to the axle housing except for bolts (3) and (4).



4. Fasten tool (A) to the rear differential as shown. Remove the remainder of the bolts (3) and (4) that hold the differential to the axle housing. Install two 3/4"-10 NC forcing screws (5) in the carrier assembly. Loosen the carrier assembly from the axle housing. Use tool (A) to remove rear differential (6) from the axle housing. The weight of the rear differential is 261 kg (575 lb.).

Install Rear Differential And Bevel Gear

Tools Needed	A
OTC Model 1790 Transmission	1



1. Install two 3/4"-10 NC guide pins (2) in the axle housing as shown.
2. Fasten tool (A) to the rear differential. Check the O-ring seal on the carrier assembly for wear or damage. If necessary, make a replacement. Put rear differential (1) in position in the axle housing with tool (A). Install two bolts that hold the differential. Remove tool (A) and guide pins. Install the remainder of the bolts that hold the differential.
3. Fill the rear axle housing with oil to the correct level. See Lubrication And Maintenance Guide.
4. Raise the machine with the 50 ton screw jacks, and remove the wood blocks from under the rear wheels. Lower the machine to the floor.

END BY:

- a. install front support
 - b. install drive axles
 - c. install rear drive shaft
-

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