REPLACE REAR AXLE OSCILLATING SUPPORT BUSHINGS—444E (AXLE SERIAL NO. —001151)

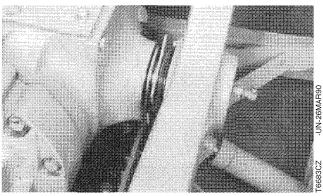
NOTE: If only the rear oscillating support is to be removed, the rear axle assembly does not have to be removed, but must be supported.

1. Remove rear axle assembly. (See Remove and Install Rear Axle and Differential in this group.)

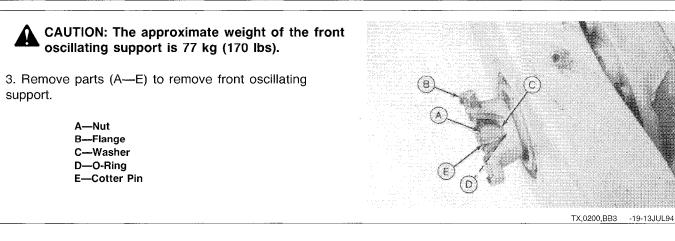


CAUTION: The approximate weight of the rear oscillating support is 68 kg (150 lbs).

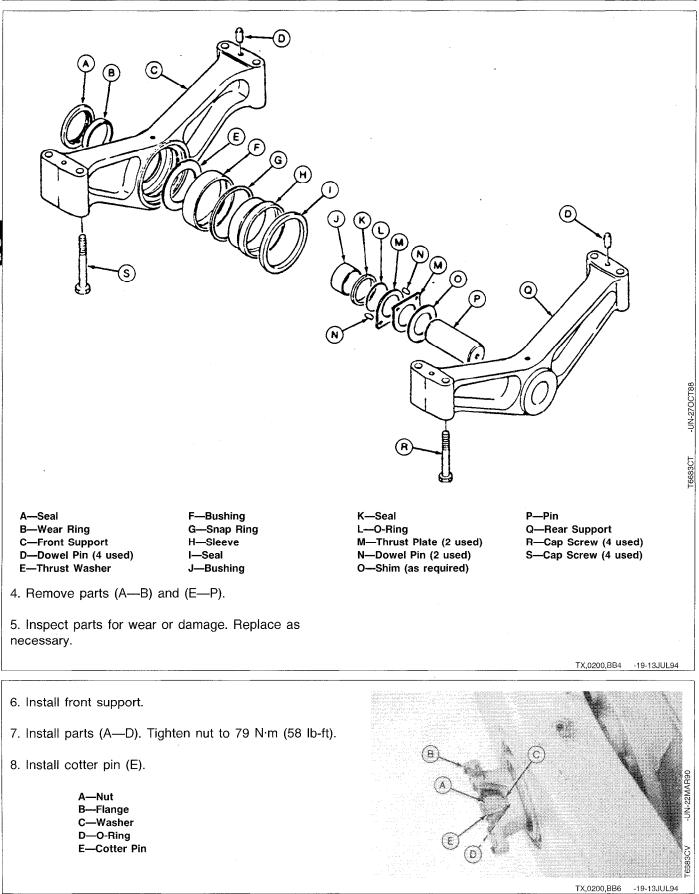
2. Remove rear oscillating support.



TX,0200,BB2 -19-13JUL94







TM1422 (02AUG94)

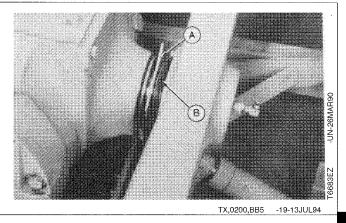
0200-8

344E and 444E Loaders Repair

9. Install rear support.

10. Install rear axle assembly. (See Remove and Install Rear Axle and Differential in this group.)

11. Measure clearance between differential case and thrust plate (A). Clearance should be within 0.025—0.046 mm (0.001—0.0018 in.). Remove or install shims (B) until clearance is within specifications.



REPLACE REAR AXLE OSCILLATING SUPPORT BUSHINGS—444E (AXLE SERIAL NO.001152—)

NOTE: If only the rear oscillating support is to be removed, the rear axle assembly does not have to be removed, but must be supported.

1. Remove rear axle assembly. (See Remove and Install Rear Axle and Differential in this group.)

CAUTION: The approximate weight of the rear oscillating support is 68 kg (150 lbs).

The approximate weight of the front oscillating support is 77 kg (170 lbs).

2. Remove parts (A—E) to remove front oscillating support.

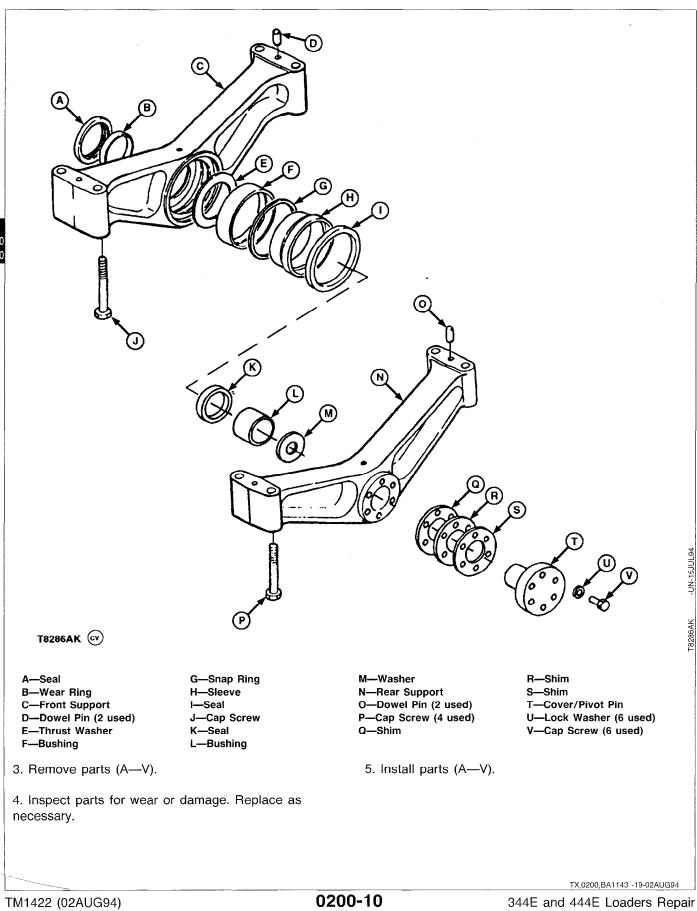


TX,0200,BA1141 -19-13JUL94

TM1422 (02AUG94)

0200-9

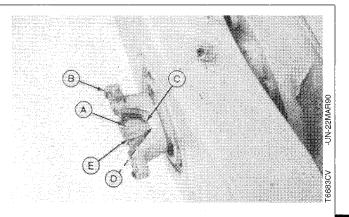
Removal and Installation/Rear Axle



- 6. Slide front support onto axle housing.
- 7. Install parts (A-D). Tighten nut to 79 N·m (58 lb-ft).
- 8. Install cotter pin (E).
- 9. Install rear support onto axle housing.

10. Install rear axle assembly. (See Remove and Install Rear Axle and Differential in this group.)

A—Nut B—Flange C—Washer D—O-Ring E—Cotter Pin

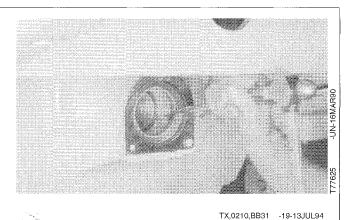


TX,0200,BA1144 -19-13JUL94

REPLACE REAR PIVOT BUSHING AND DOWEL PIN—444E

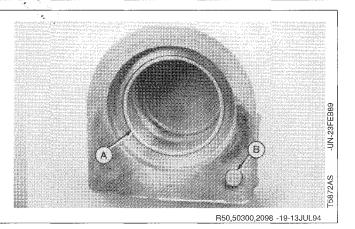
1. Support rear axle assembly. Remove rear oscillating support.

2. Use a chisel to remove bushing.



3. Install new pin (B), if removed or if case is being replaced. Install pin until 6.1 mm (0.24 in.) of pin protrudes from mounting surface.

4. Install new bushing (A) flush with outside edge of inner bore, with the seam toward the case cover.



SERVICE EQUIPMENT AND TOOLS

NOTE: Order tools from the U.S. SERVICE-GARD[™] Catalog or from the European Microfiche Tool Catalog (MTC). Some tools may be available from a local supplier.

Name	Use
JDG-22 Seal Remover	To remove oil seals.
JDG-93 Disk (444E)	To remove oscillating pivot wear sleeve.
JDE-96 Ring Compressor	To remove oscillating pivot wear sleeve.
JDG-127 O-Ring Seal Tool Set (444E)	To remove O-rings.
JDG-185 Air Test Plug (444E)	To test lock passage for leaks.
JDG-92 Disk	To install differential drive shaft bearing cup.
17-1/2 and 30 Ton Puller Set	To remove bearings.

TX,0210,AA34 -19-04MAY88

OTHER MATERIALS				
Number	Name	Use		
AT38226 (3M No. 2158)	Ероху	On pinion shaft cap screw—344E.		
TY6305	Clean and Cure Primer	To prime surfaces for T43512, T43513, and T43514.		
T43514	Plastic Gasket	To seal oil seal outside diameters. To seal bearing cup in lock side of differential.		
TY6304	Flexible Sealant	Install axle cover and axle housing.		
T43512 (344E)	Thread Lock and Sealer (Medium Strength)	Differential cap screws.		
		TX,0210,AA35 -19-13JUL94		

SPECIFICATIONS—344E

	Item	Measurement	Specification
	Rear Oscillating Support	Weight (Approximate)	59 kg (130 lb)
	Front Oscillating Support	Weight (Approximate)	41 kg (90 lb)
	Differential Cone Point	Dimension	See Procedure
	Yoke-to-Pinion Shaft	Gap (Endplay)	0.00—0.05 mm (0.00—0.002 in.)
	Pinion Shaft Cap Screw	Torque	390 N·m (290 lb-ft)
0 2	Differential (Standard)	Weight (Approximate)	55 kg (120 lb)
	Differential (No-SPIN)	Weight (Approximate)	60 kg (132 lb)
	Spiral Bevel Gear Cap Screw	Torque	49 N·m (36 lb-ft)
	Differential Housing Cap Screw	Torque	88 N·m (65 lb-ft)
	Differential Quill Cap Screw	Torque	88 N·m (65 lb-ft)
	Differential Carrier	Rolling Drag Torque	8.9-10.2 N (2.0-2.4 lb force)
	Differential Ring Gear	Backlash	0.19—0.39 mm (0.007—0.015 in.)
	Input Shaft Pinion-to-Spiral Bevel Gear	Tooth Bearing Pattern Length	30 mm (1.2 in.) Minimum
	Differential Cap Screws (Standard)	Torque	115 N·m (85 lb-ft)
	Ring Gear Cap Screws	Torque	150 N·m (110 lb-ft)
	Differential Case Cover Cap Screw	Torque	75 N·m (55 lb-ft)
	Differential	Capacity	16 L (17 qt)

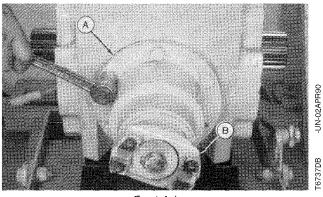
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TX,0210,HH572 -19-13JUL94

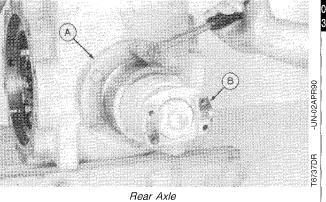
REMOVE INPUT QUILL AND DRIVE SHAFT-344E

Remove yoke (B).

Remove input quill (A).

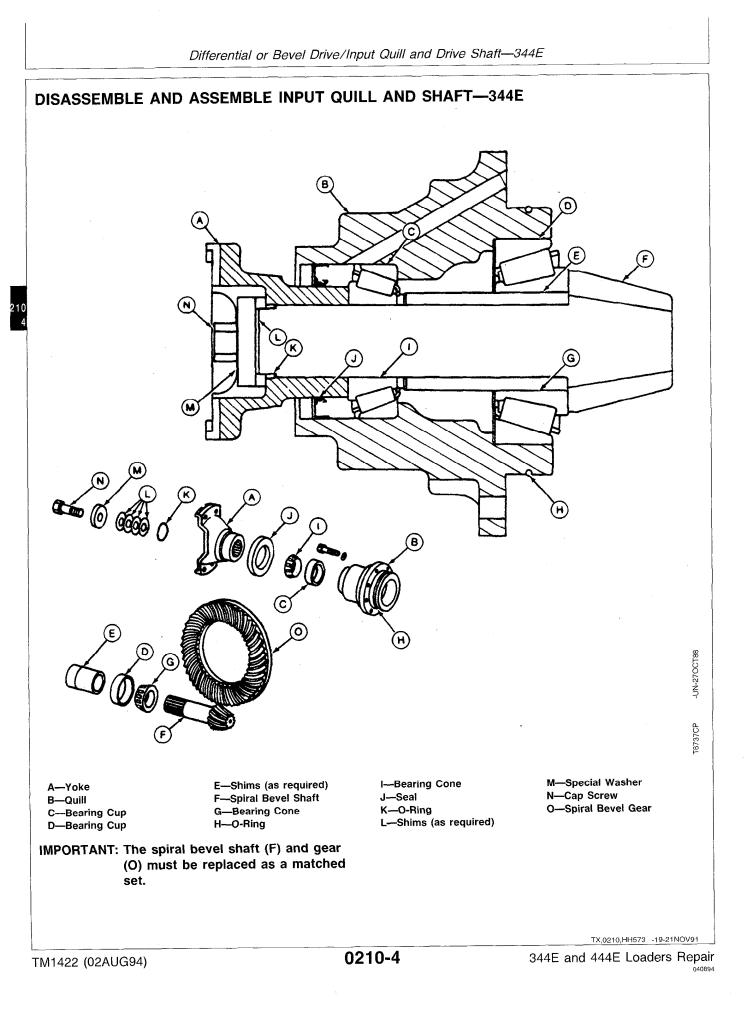


Front Axle



TX,0210,BB61 -19-22APR88

TM1422 (02AUG94)

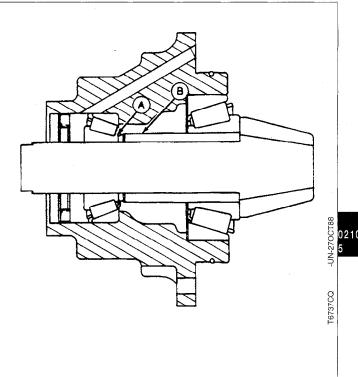


Bearing cones and cups are a press fit.

1. Install spacer (B) with the small end toward bearing cone (A).

2. Make the following adjustments when replacing any of the bearing cups, bearing cones, ring gear, spiral bevel shaft, quill or differential case:

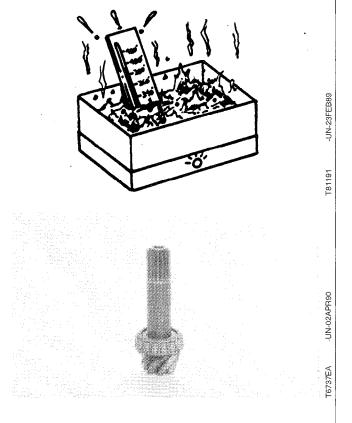
Differential Preload Differential Backlash Pinion Shaft Tooth Bearing Pattern Cone Point



TX,0210,BB58 -19-22APR88

CAUTION: DO NOT heat oil over 182°C (360°F). Oil fumes or oil can ignite above 193°C (380°F). Use a thermometer. Do not allow a flame or heating element to come in direct contact with the oil. Heat the oil in a well ventilated area.

3. Heat bearing cone to 150°C (300°F) and install on shaft.



TX,0210,BB59 -19-22APR88

ADJUST CONE POINT-344E

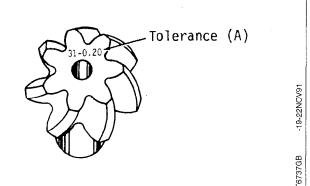
IMPORTANT: Check cone point adjustment if bearing cup, cones, differential, drive shaft or bearing quill were installed new.

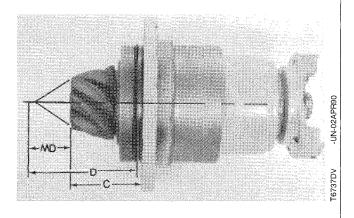
SHIM THICKNESS SPECIFICATION

(MD \pm A + C - D = Shim Thickness).

$\mathsf{MD}=\mathsf{123}\ \mathsf{mm}$ (5.0 in.)

- A $\,=$ dimension etched on end of pinion shaft
- $C \;\; = \mbox{distance between housing and end of input shaft}$
- $\mathsf{D}~=203$ mm (8 in.)





TX,0210,BB56 -19-04MAY88

ADJUST DRIVE SHAFT-344E

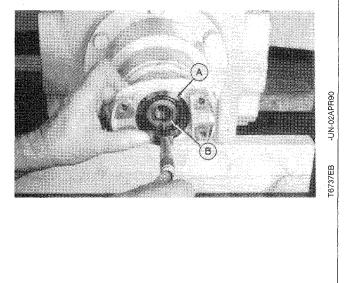
Tighten cap screw yoke to pinion shaft to 390 N·m (290 lb-ft)

Remove cap screw, yoke and pinion shaft.

Measure distance between yoke (A) and pinion shaft (B) to determine shim needed.

SPECIFICATION

Apply epoxy or equivalent to cap screw threads and tighten to 390 N·m (290 lb-ft).



TX,0210,BB57 -19-04JUN90

MORE MANUALS: https://www.ebooklibonline.com/



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