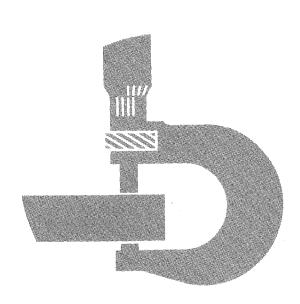
344E and 444E Loaders Repair



TECHNICAL MANUAL

For complete service information also see:

344E and 444E Loader	
Operation and Test TM	1421
Teammate Axles CT	
Teammate II Axies CT	M43
4276 Engine	TM4
4045 Engine	
Alternators and Starting Motors CT	

John Deere Dubuque Works TM1422 (02AUG94)

LITHO IN U.S.A. ENGLISH

Introduction

FOREWORD

This manual is written for an experienced technician. Essential tools required in performing certain service work are identified in this manual and are recommended for use.

Live with safety: Read the safety messages in the introduction of this manual and the cautions presented throughout the text of the manual.



This is the safety-alert symbol. When you see this symbol on the machine or in this manual, be alert to the potential for personal injury.

Technical manuals are divided in two parts: repair and operation and tests. Repair sections tell how to repair the components. Operation and tests sections help you identify the majority of routine failures quickly. Information is organized in groups for the various components requiring service instruction. At the beginning of each group are summary listings of all applicable essential tools, service equipment and tools, other materials needed to do the job, service parts kits, specifications, wear tolerances, and torque values.

Technical Manuals are concise guides for specific machines. They are on-the-job guides containing only the vital information needed for diagnosis, analysis, testing, and repair.

Fundamental service information is available from other sources covering basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes.

DX,TMIFC

-19-22MAY92

JOHN DEERE DEALERS

IMPORTANT: Please remove this page and route through your service department.

This is a complete revision for TM-1422 (Dec-91) 344E and 444E Loader—Repair.

Listed below is a brief explanation of "WHAT" was changed and "WHY" it was changed.

This manual was revised:

- 1. To update Groups 0200 and 0210.
 - 444E axle serial number break was added for TeamMate and TeamMate II axles.
 - 444E axle and differential repair procedures have been deleted from this manual. (CTM18 and CTM43 contain all the necessary information for complete repair of 444E TeamMate and TeamMate II differential and axle assemblies.)
 - Front and rear oscillating axle support procedures have been revised and moved to Group 0200.
- 2. To update Groups 0300 and 0360.
 - New procedure added for flushing the hydrostatic motor hoses and the hydrostatic oil cooler.
 - New art added, existing art revised, and text corrected in the HST Motor and HST Pump disassemble and assemble procedures.
 - The Starting Point Valve and Control Pressure Regulating Valve repair procedures have been revised to include an "initial setting" adjustment. New art and minor text changes has been added for later version.

- 3. To add new procedure for removing and installing the DB4 (retained shaft) injection pump in Group 0400.
- 4. To add new procedure for disassembling and assembling steering cylinder (Group 0960) for machines (S.N. 001192—).
- 5. To update Group 1060.
 - New art added and text revised to include repairing and charging brake accumulator for 444E machines (S.N. 001337—).
 - Brake bleed procedure for 344E has been revised.
- 6. To delete the alternator disassemble and assemble procedures on Group 1672. (CTM77 contains all necessary information for complete alternator repair.)
- 7. To revise and update the air conditioning procedures to include proper handling of R12 refrigerant and use of the R12 refrigerant recovery system.
- 8. To add new art for bucket and boom hydraulic cylinder repair procedure (Group 3160) for machines (S.N. 001192—).
- 9. To correct and update miscellaneous art and text throughout manual.

Contents

SECTION I—GENERAL INFORMATION

Group I-Safety Information

Group II-General Specifications

Group III-Torque Values

Group IV-Fuels and Lubricants

Group V—Inspection Procedures

SECTION 01—Wheels

Group 0110—Powered Wheels and Fastenings

SECTION 02—Axles and Suspension Systems

Group 0200—Removal and Installation

Group 0210—Differential or Bevel Drive

Group 0225-Axle Shafts, Bearings and U-Joints

Group 0250—Axle Shaft, Bearings and Reduction

SECTION 03—Transmission

Group 0300—Removal and Installation

Group 0350—Gears, Shafts, Bearings, and Power Shift Clutch

Group 0360—Hydraulic System

SECTION 04—Engine

Group 0400—Removal and Installation

SECTION 05—Engine Auxiliary Systems

Group 0505—Cold Weather Starting Aids

Group 0510—Cooling Systems

Group 0515—Speed Controls

Group 0520-Intake System

Group 0560—External Fuel Supply Systems

SECTION 07—Dampener Drive (Flex Coupling)

Group 0752-Elements

SECTION 09—Steering System

Group 0930—Secondary Steering

Group 0960—Hydraulic System

SECTION 10—Service Brakes

Group 1011—Active Elements

Group 1015—Controls Linkage

Group 1060—Hydraulic System

SECTION 11—Park Brake

Group 1111—Active Elements

Group 1115—Controls Linkage

SECTION 16—Electrical System

Group 1671—Batteries, Support, and Cables

Group 1672—Alternator, Regulator and Charging system Wiring

Group 1673—Lighting System

Group 1674—Wiring Harness and Switches

Group 1675—System Controls

Group 1677—Motors and Actuators

SECTION 17—Frame, Chassis or Supporting Structure

Group 1740—Frame Installation

Group 1746—Frame Bottom Guards

Group 1749—Chassis Weights

SECTION 18—Operator's Station

Group 1800—Removal and Installation

Group 1810—Operator Enclosure

Group 1821—Seat and Seat Belt

Group 1830—Heating and Air Conditioning

SECTION 21—Main Hydraulic System (Hydraulic Reservoir)

Group 2100—Removal and Installation

SECTION 31—Loader

Group 3102—Bucket

Group 3115—Controls Linkage

Group 3140—Frames

Group 3160—Hydraulic System

SECTION 99—Dealer Fabricated Tools

Group 9900—Dealer Fabricated Tools

Index

All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

TM1422-19-02AUG94

COPYRIGHT® 1994

DEERE & COMPANY

Moline, Illinois

All rights reserved

A John Deere ILLUSTRUCTION™ Manual

Previous Editions

Copyright® 1991, 1988, 1987 Deere & Company

Section I GENERAL INFORMATION

Contents

Pag
Group I—Safety Information - -
Group II—General Specifications
344E
444E I-II-
Group III—Torque Values I-III-
Group IV—Fuels and Lubricants I-IV-
Group V—Inspection Procedures
PIP I
PIP II

HANDLE FLUIDS SAFELY—AVOID FIRES

When you work around fuel, do not smoke or work near heaters or other fire hazards.

Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; they can ignite and burn spontaneously.



3227

DX.FLAME

-19-04JUN90

PREVENT BATTERY EXPLOSIONS

Keep sparks, lighted matches, and open flame away from the top of battery. Battery gas can explode.

Never check battery charge by placing a metal object across the posts. Use a volt-meter or hydrometer.

Do not charge a frozen battery; it may explode. Warm battery to 16°C (60°F).



DX,SPARKS

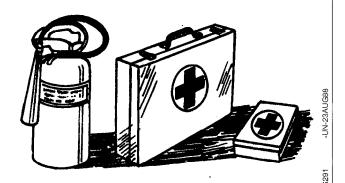
-19-03MAR93

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



DX,FIRE2

-19-03MAR93

PREVENT ACID BURNS

Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid the hazard by:

- 1. Filling batteries in a well-ventilated area.
- 2. Wearing eye protection and rubber gloves.
- 3. Avoiding breathing fumes when electrolyte is added.
- 4. Avoiding spilling or dripping electrolyte.
- 5. Use proper jump start procedure.

If you spill acid on yourself:

- 1. Flush your skin with water.
- 2. Apply baking soda or lime to help neutralize the acid.
- 3. Flush your eyes with water for 15—30 minutes. Get medical attention immediately.

If acid is swallowed:

- 1. Do not induce vomiting.
- 2. Drink large amounts of water or milk, but do not exceed 2 L (2 quarts).
- 3. Get medical attention immediately.



DX,POISON -

-19-21APR9

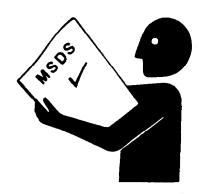
HANDLE CHEMICAL PRODUCTS SAFELY

Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with John Deere equipment include such items as lubricants, coolants, paints, and adhesives.

A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.

Check the MSDS before you start any job using a hazardous chemical. That way you will know exactly what the risks are and how to do the job safely. Then follow procedures and recommended equipment.

(See your John Deere dealer for MSDS's on chemical products used with John Deere equipment.)



-UN-26N

7

DX,MSDS,NA -19-03MAR93

AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.



. .

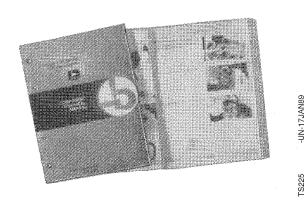
DX,FLUID

-19-03MAR93

JOHN DEERE 1200 TEAMMATE SERIES AXLES, 444E (AXLE SERIAL NO. —001151)—USE CTM18

For complete repair information the Component Technical Manual (CTM) is also required.

Use the component technical manual in conjunction with this machine manual.

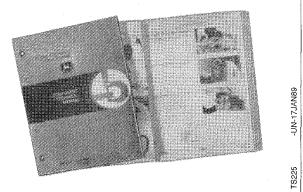


TX,0200,HH653 ~19-02AUG94

JOHN DEERE 1200 TEAMMATE II SERIES AXLES, 444E (AXLE SERIAL NO. 001152—)—USE CTM43

For complete repair information the Component Technical Manual (CTM) is also required.

Use the component technical manual in conjunction with this machine manual.



TX,0200,MM977 -19-02AUG94

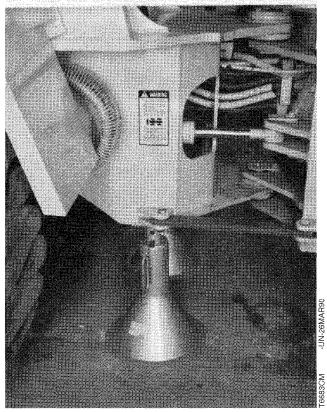
REMOVE AND INSTALL FRONT AXLE

- 1. Install frame locking bar.
- 2. Raise front of machine.



CAUTION: Prevent bodily injury caused by accidental dropping of the front frame. Use floor stands with a minimum capacity of 4540 kg (10,000 lb)

- 3. Install floor stands under both sides of loader frame.
- 4. Stop engine.
- 5. Drain differential. Oil capacity is 16 L (17 qts).
- 6. Remove front wheels. (See Group 110.)



TX,0200,UU1139 -19-21NOV91



CAUTION: The approximate weight of the bottom guard is 52 kg (115 lb). Weight may increase significantly due to buildup of mud or debris.

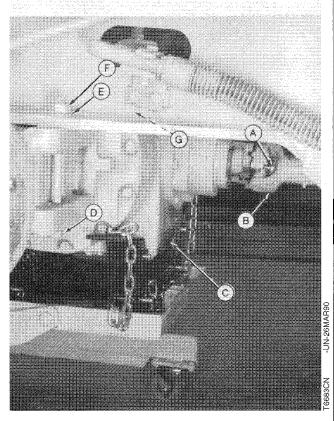
- 7. Remove bottom guard.
- 8. Remove cap screws (A) to disconnect drive shaft (B).
- 9. Disconnect brake line (G).

A

CAUTION: The approximate weight of final drive is:

344E 430 kg (950 lb) 444E 645 kg (1420 lb)

- 10. Place a hydraulic floor jack under the differential.
- 11. Remove bolts (D), washers (E) and nuts (F).
- 12. Slowly lower front axle.
- 13. Repair axle or differential. (See Group 210 or Group 250.)
- 14. Slowly raise front axle into position.
- 15. Install bolts, washers and nuts. Tighten to 735 N·m (542 lb-ft).
- 16. Connect brake line.
- 18. Remove hydraulic floor jack.
- 19. Install wheels. (See in Group 110.)



- A-Cap Screw (4 used)
- **B**—Drive Shaft
- C—Final Drive
- D-Bolt (8 used)
- E-Washer (16 used)
- F-Nut (16 used)
- G-Brake Line

TX,0200,UU1140 -19-21NOV91

REMOVE AND INSTALL REAR AXLE AND DIFFERENTIAL

1. Install frame locking bar.



CAUTION: Prevent bodily injury caused by accidental dropping of the rear frame. Use floor stands with a minimum capacity of 4540 kg (10,000 lbs).

2. Install floor stands under both sides of loader frame.

CAPACITY SPECIFICATION

- 3. Disconnect lube lines (A and B).
- 4. Disconnect brake line (C).
- 5. Remove cap screws (D) to remove universal joint.



CAUTION: The approximate weight of rear axle and oscillating support is:

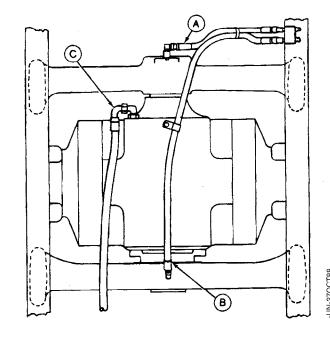
344E 525 kg (1160 lb) 444E 750 kg (1650 lb)

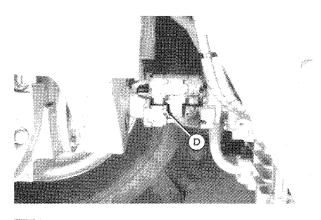
- 6. Place transmission jack under differential.
- 7. Remove bolts (E).
- 8. Remove and disassemble. (See Group 0210).

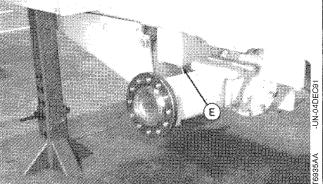
TORQUE SPECIFICATION

9. Fill differential with oil. (See Section I, Group IV.)

- A-Lube Line
- B-Lube Line
- C-Brake Line
- D-Universal Joint Cap Screw (8 used)
- E-Final Drive-to-Frame Mounting Bolts







TX,0200,UU1138 -19-13JUL94

REPLACE REAR AXLE OSCILLATING **SUPPORT BUSHINGS—344E**



CAUTION: The approximate weight of the rear oscillating support is 59 kg (130 lbs).

- 1. Remove rear axle assembly to remove front and rear supports. (See Remove and Install Rear Axle and Differential in this group).
- 2. Remove cover (E) and retaining plate (A).
- 3. Remove rear oscillating support.

A—Retaining Plate

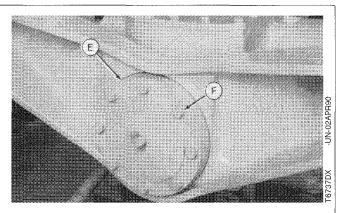
B-Wear Ring

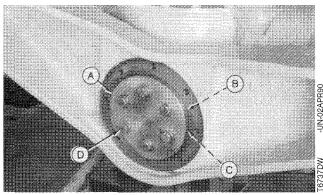
C—Seal

D-Cap Screw (6 used)

E-Cover

F-Cap Screw (8 used)





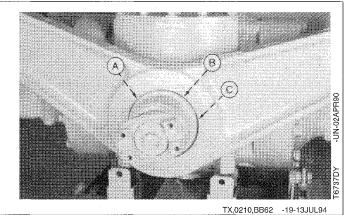
TX,0210,BB64 -19-13JUL94

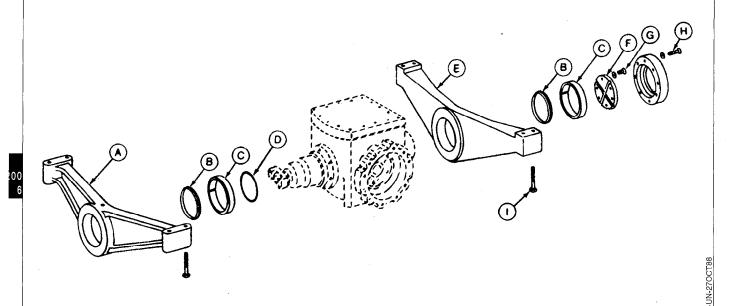
CAUTION: The approximate weight of the front oscillating support is 41 kg (90 lb).

4. Remove front oscillating support.

A—Seal

B-Wear Ring C-O-Ring





A—Front Support

B-Seal (2 used)

C—Wear Ring (2 used)

D-O-Ring

E—Rear Support

F—Retaining Plate G-Cap Screw (6 used) H-Cap Screw (8 used) I—Cap Screw (8 used)

- 5. Remove parts (A-I).
- 6. Inspect parts for wear or damage and replace if necessary.

7. Lubricate seal (B) using multi-purpose grease.

TX,0210,BB63 -19-22APR88

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

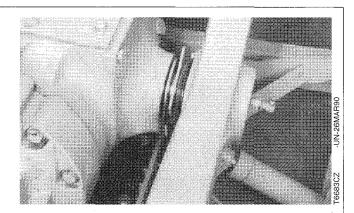
NOTE: If only the rear oscillating support is to be removed, the rear axle assembly does not have to be removed, but must be supported.

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

A

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

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

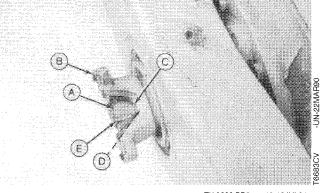
A—Nut

B-Flange

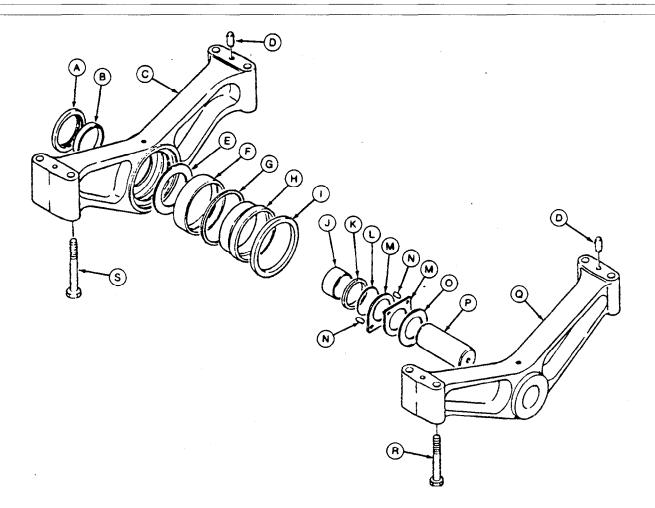
C-Washer

D-O-Ring

E-Cotter Pin



TX,0200,BB3 -19-13JUL94



A-Seal

B-Wear Ring

C—Front Support

E-Thrust Washer

D-Dowel Pin (4 used)

F—Bushing

G—Snap Ring

H-Sleeve

I-Seal

J-Bushing

K—Seal

L-O-Ring

M—Thrust Plate (2 used)

N—Dowel Pin (2 used)

O-Shim (as required)

P—Pin

Q—Rear Support

R—Cap Screw (4 used)

S-Cap Screw (4 used)

- 4. Remove parts (A-B) and (E-P).
- 5. Inspect parts for wear or damage. Replace as necessary.

TX,0200,BB4 -19-13JUL94

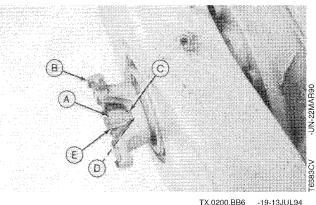
- 6. Install front support.
- 7. Install parts (A—D). Tighten nut to 79 N·m (58 lb-ft).
- 8. Install cotter pin (E).

A—Nut

B---Flange

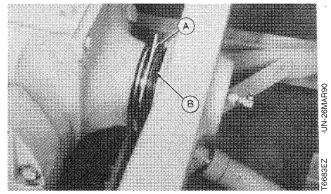
C-Washer

D-O-Ring E-Cotter Pin



TX,0200,BB6 -19-13JUL94

- 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.



TX 0200 BB5 -19-13.IUI 9

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.

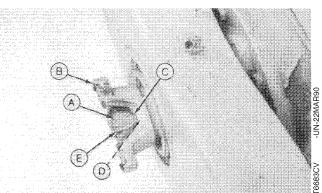
1. Remove rear axle assembly. (See Remove and Install Rear Axle and Differential in this group.)



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.



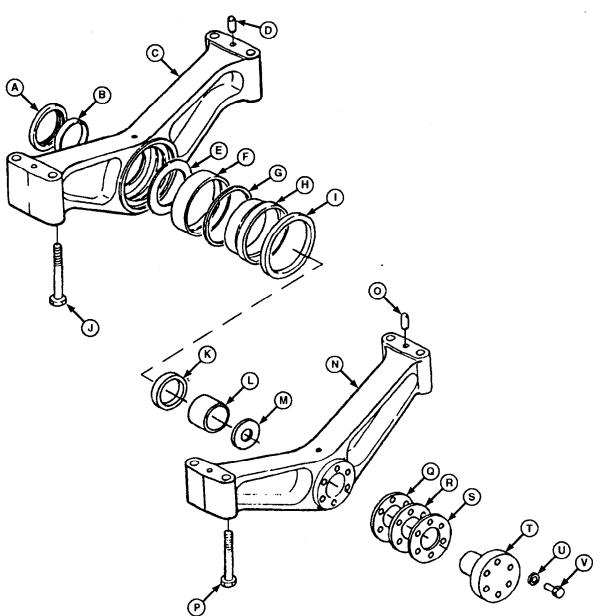
A-Nut

B—Flange

C—Washer D—O-Ring

E-Cotter Pin

TX,0200,BA1141 -19-13JUL94



T8286AK ©

A—Seal

B-Wear Ring

C—Front Support

D-Dowel Pin (2 used)

E—Thrust Washer

F-Bushing

G—Snap Ring

H—Sleeve

I—Seal

J-Cap Screw

K-Seal

L—Bushing

M---Washer

N—Rear Support

O-Dowel Pin (2 used)

P—Cap Screw (4 used)

Q-Shim

R-Shim

S—Shim

T—Cover/Pivot Pin

U-Lock Washer (6 used)

V—Cap Screw (6 used)

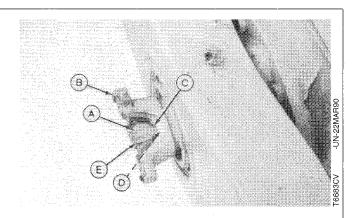
3. Remove parts (A-V).

4. Inspect parts for wear or damage. Replace as necessary.

5. Install parts (A-V).

TX,0200,BA1143 -19-02AUG94

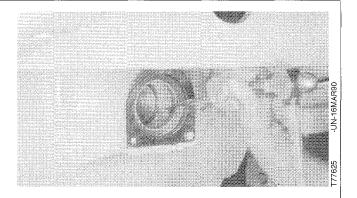
- 6. Slide front support onto axle housing.
- 7. Install parts (A-D). Tighten nut to 79 N·m (58 lb-ft).
- 8. Install cotter pin (E).
- 9. Install rear support onto axle housing.
- 10. Install rear axle assembly. (See Remove and Install Rear Axle and Differential in this group.)
 - A—Nut B—Flange
 - C—Washer D—O-Ring
 - D—O-NIIIG E Cottor Dir
 - E-Cotter Pin



TX,0200,BA1144 -19-13JUL94

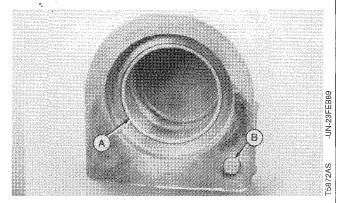
REPLACE REAR PIVOT BUSHING AND DOWEL PIN—444E

- 1. Support rear axle assembly. Remove rear oscillating support.
- 2. Use a chisel to remove bushing.



TX,0210,BB31 -19-13JUL94

- 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.



R50,50300,2098 -19-13JUL94

Group 0210 Differential or Bevel Drive

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

NumberNameUseAT38226 (3M No. 2158)EpoxyOn pinion shaft cap screw—344E.TY6305Clean and Cure PrimerTo prime surfaces for T43512, T43513, and T43514.T43514Plastic GasketTo seal oil seal outside diameters. To seal bearing cup in lock side of differential.TY6304Flexible SealantInstall axle cover and axle housing.T43512 (344E)Thread Lock and Sealer (Medium Strength)Differential cap screws.			
TY6305 Clean and Cure Primer To prime surfaces for T43512, T43513, and T43514 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	Number	Name	Use
T43514	AT38226 (3M No. 2158)	Ероху	On pinion shaft cap screw—344E.
seal bearing cup in lock side of differential. TY6304	TY6305	Clean and Cure Primer	
T43512 (344E) Thread Lock and Sealer	T43514	Plastic Gasket	seal bearing cup in lock side of
	TY6304	Flexible Sealant	Install axle cover and axle housing.
			Differential cap screws.

TX,0210,AA35 -19-13JUL94

SPECIFICATIONS—344E

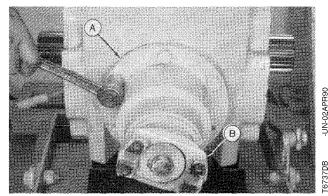
Item	Measurement	Specification
Rear Oscillating Support	. Weight (Approximate)	. 59 kg (130 lb)
Front Oscillating Support	. Weight (Approximate)	. 41 kg (90 lb)
Differential Cone Point	. Dimension	. See Procedure
Yoke-to-Pinion Shaft	. Gap (Endplay)	. 0.00—0.05 mm (0.00—0.002 in.)
Pinion Shaft Cap Screw	. Torque	. 390 N·m (290 lb-ft)
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)

TX,0210,HH572 -19-13JUL94

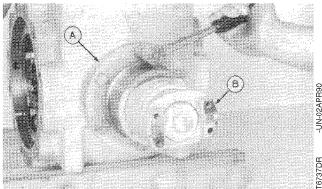
REMOVE INPUT QUILL AND DRIVE SHAFT—344E

Remove yoke (B).

Remove input quill (A).



Front Axle



Rear Axle

TX,0210,BB61 -19-22APR88

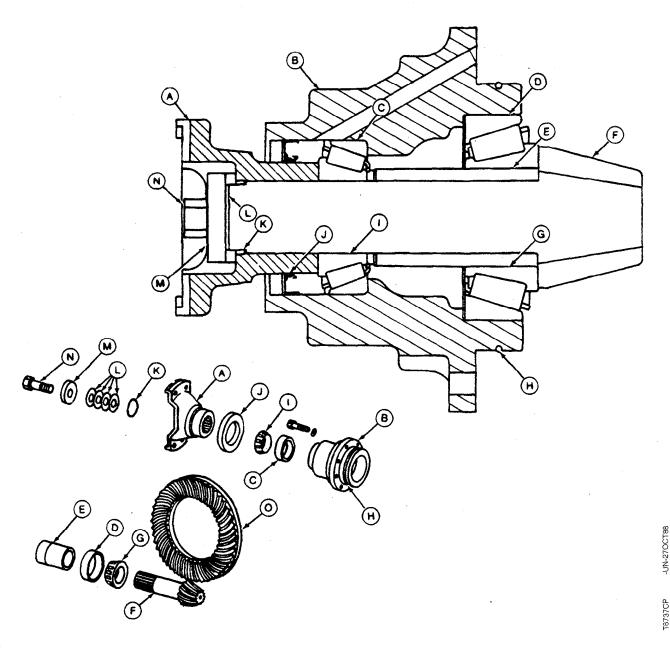
Thank you very much for your reading. Please Click Here. Then Get COMPLETE MANUAL. NO WAITING



NOTE:

If there is no response to click on the link above, please download the PDF document first and then click on it.

DISASSEMBLE AND ASSEMBLE INPUT QUILL AND SHAFT—344E



A-Yoke

B—Quill

C-Bearing Cup

D—Bearing Cup

E-Shims (as required)

F-Spiral Bevel Shaft

G—Bearing Cone

H-O-Ring

I-Bearing Cone

J--Seal

K-O-Ring

L-Shims (as required)

M-Special Washer

N—Cap Screw

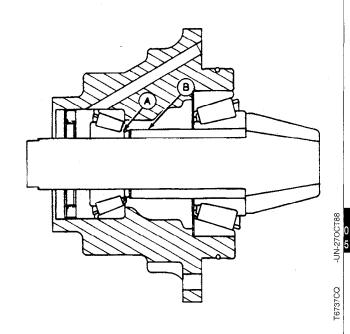
O-Spiral Bevel Gear

IMPORTANT: The spiral bevel shaft (F) and gear (O) must be replaced as a matched set.

TX,0210,HH573 -19-21NOV91

- 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

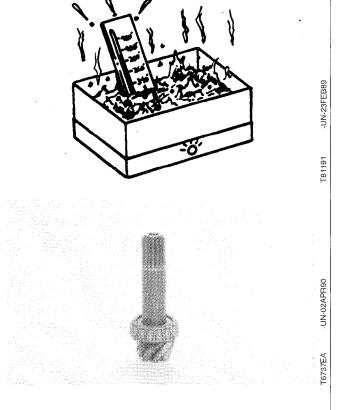


TX,0210,BB58 -19-22APR88

A

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

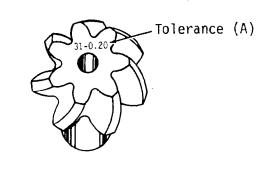
(MD \pm A + C - D = Shim Thickness).

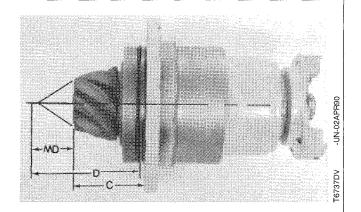
MD = 123 mm (5.0 in.)

A = dimension etched on end of pinion shaft

C = distance between housing and end of input shaft

D = 203 mm (8 in.)





TX,0210,BB56 -19-04MAY88

19-22NOV91

ADJUST DRIVE SHAFT—344E

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

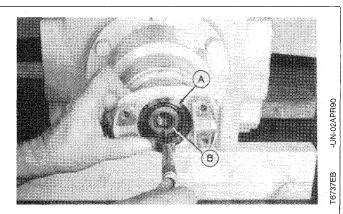
Remove cap screw, yoke and pinion shaft.

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

SPECIFICATION

Yoke-to-Pinion Gap (Endplay). 0.00—0.05 mm (0.00—0.002 in.)

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



TX,0210,BB57 -19-04JUN90