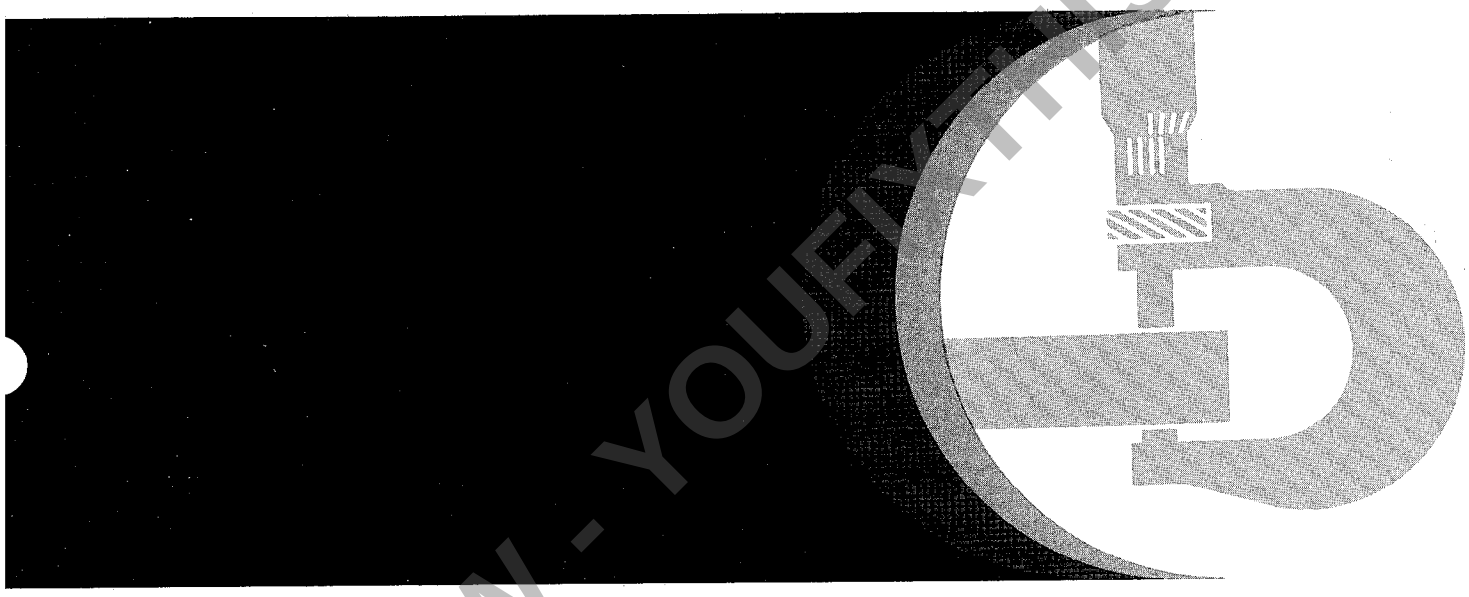
John Deere 210C, 310C, 315C Backhoe Loaders Repair



TECHNICAL MANUAL

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TM-1420 (Jun-88)

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210C, 310C, 315C BACKHOE LOADERS TECHNICAL MANUAL TM-1420 (JUN-88) REPAIR

SECTION AND GROUP CONTENTS

NOTE: This manual covers machine repair. For operation and test information, see TM-1419 Operation and Test.

SECTION I—GENERAL INFORMATION
Group I—Introduction and Safety Information
Group II—General Specifications
Group III—Torque Values
Group IV—Fuels and Lubricants
Group V—Inspection Procedure

SECTION 01—WHEELS
Group 0110—Powered Wheels and Fastenings
Group 0120—Non-Powered Wheels and Fastenings

SECTION 02—AXLES AND SUSPENSION SYSTEMS
Group 0230—Non-Powered Wheel Axles
Group 0240—Powered Wheel Axles
Group 0250—Axle Shafts, Bearings and Reduction Gears
Group 0260—Hydraulic System

SECTION 03—TRANSMISSION
Group 0300—Removal and Installation
Group 0315—Controls
Group 0325—Input Drive Shafts and U-Joints
Group 0350—Gears, Shafts, Housings, Bearings Differential Lock, Brake, and Park Brake
Group 0360—Hydraulic System Suction Screen, Oil Pump, and Control Valve

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 06—TORQUE CONVERTER
Group 0651—Turbine, Gears, and Shafts

SECTION 09—STEERING SYSTEM
Group 0960—Hydraulic System Steering Valve and Cylinder and Inlet Check Valve

SECTION 10—SERVICE BRAKES
Group 1011—Active Elements Brake Disks and Control Linkage
Group 1060—Hydraulic System Brake Valve

SECTION 11—PARK BRAKE
Group 1111—Active Elements
Group 1115—Controls (Linkage)

Continued on next page

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T64;1420 K1 160688

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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.



AB6;TS227 053;FLAME 050188

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).



ABT;TS204 053;SPARKS 050188

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.

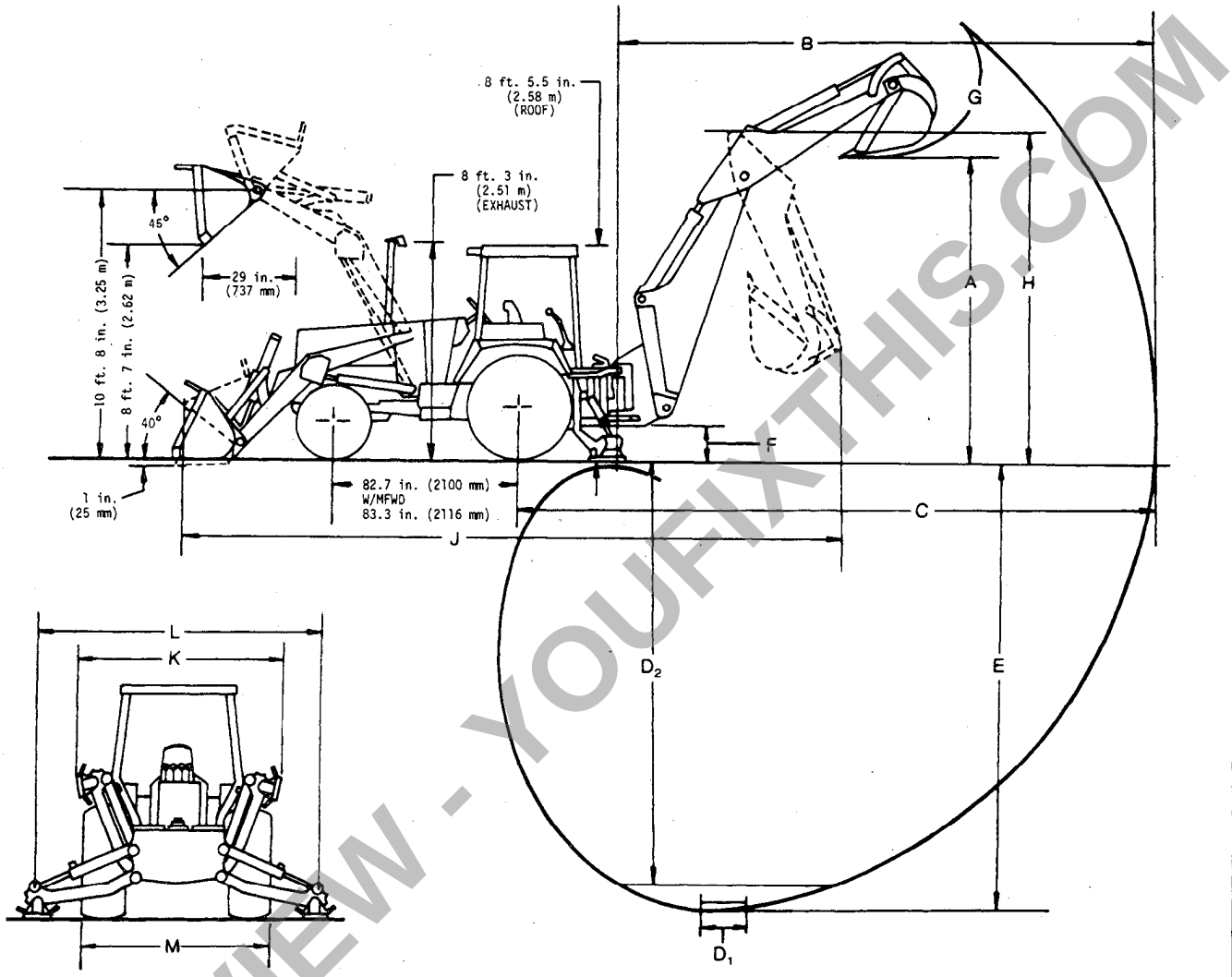


AB6;TS186 053;FIRE2 080785

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210C BACKHOE LOADER



Key:	Backhoe*	Extendible Dipperstick Retracted	Extendible Dipperstick Extended
A. Loading height, truck loading position	10 ft. 5 in. (3.18 m)	10 ft. 8 in. (3.25 m)	12 ft. 4 in. (3.75 m)
B. Reach from center of swing mast	17 ft. 3 in. (5.25 m)	17 ft. 3 in. (5.26 m)	20 ft. 11 in. (6.37 m)
C. Reach from center rear axle	20 ft. 6 in. (6.24 m)	20 ft. 6 in. (6.26 m)	24 ft. 2 in. (7.37 m)
D. Digging depth (SAE):			
(1) 2 ft. (610 mm) flat bottom	13 ft. 9 in. (4.19 m)	13 ft. 9 in. (4.20 m)	17 ft. 8 in. (5.38 m)
(2) 8 ft. (2440 mm) flat bottom	12 ft. 7 in. (3.83 m)	12 ft. 7 in. (3.84 m)	16 ft. 9 in. (5.12 m)
E. Maximum digging depth	14 ft. (4.27 m)	14 ft. (4.27 m)	17 ft. 9 in. (5.42 m)
F. Ground clearance, minimum	12 in. (305 mm)	12 in. (305 mm)	12 in. (305 mm)
G. Bucket rotation	160° and 180°	160° and 180°	160° and 180°
H. Transport height	11 ft. 5 in. (3.49 m)	11 ft. 5 in. (3.48 m)	11 ft. 5 in. (3.48 m)

002;T6267AW 05T;115 K10 280286

94T;00101I 01 130688

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INCH SERIES TORQUE CHART

Check tightness of cap screws periodically.

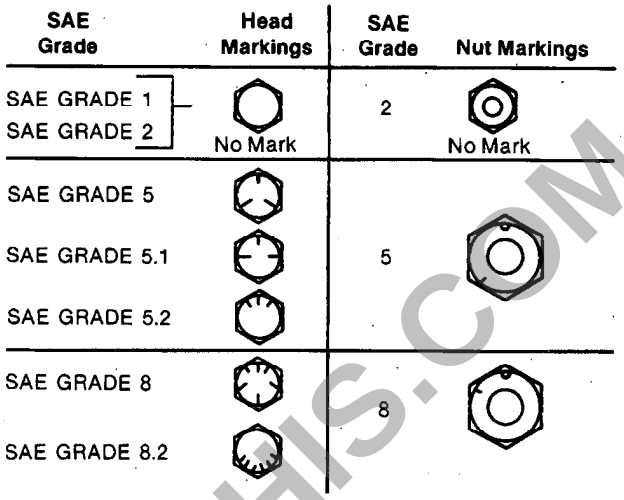
Torque values listed are for general use only. Do not use these values if a different torque value or tightening procedure is listed for a specific application.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

Fasteners should be replaced with the same or higher grade. If higher grade fasteners are used, these should only be tightened to the strength of the original.

Make sure fastener threads are clean and you properly start thread engagement. This will prevent them from failing when tightening.

Tighten cap screws having lock nuts to approximately 50 percent of amount shown in chart.



DIA.	WRENCH SIZE	SAE GRADE 1 OIL	SAE GRADE 1 DRY	SAE GRADE 2 OIL	SAE GRADE 2 DRY	SAE GRADE 5 OIL	SAE GRADE 5 DRY	SAE GRADE 8 OIL	SAE GRADE 8 DRY
		N·m(lb-in)	N·m(lb-in)	N·m(lb-in)	N·m(lb-in)	N·m(lb-in)	N·m(lb-in)	N·m(lb-in)	N·m(lb-in)
#6		0.5 (4.5)	0.7(6)	0.8(7)	1(10)	1.4(12)	1.7(15)		
#8		0.9(8)	1.2(11)	1.5(13)	2(18)	2.4(21)	3.2(28)		
#10		1.4(12)	1.8(16)	2(19)	2.8(25)	3.4(30)	4.6(41)		
#12		2(19)	2.8(25)	3.4(30)	4.5(40)	5.4(48)	7.3(65)		
		N·m(lb-ft)	N·m(lb-ft)	N·m(lb-ft)	N·m(lb-ft)	N·m(lb-ft)	N·m(lb-ft)	N·m(lb-ft)	N·m(lb-ft)
1/4	7/16	3.5(2.5)	4(3.0)	5(4.0)	7(5.0)	8(6.0)	11(8.0)	12(8.5)	16(12)
5/16	1/2	7(5.0)	9(6.5)	10(7.5)	14(10.0)	16(12.0)	23(17.0)	24(18.0)	33(24)
3/8	9/16	12(8.5)	16(12.0)	19(14.0)	24(18.0)	30(22.0)	41(30)	41(30)	54(40)
7/16	5/8	19(14.0)	26(19.0)	30(22.0)	41(30)	47(35)	68(50)	68(50)	95(70)
1/2	3/4	24(21.0)	41(30)	47(35)	61(45)	75(55)	102(75)	102(75)	142(105)
9/16	13/16	41(30)	54(40)	68(50)	88(65)	108(80)	142(105)	149(110)	203(150)
5/8	15/16	54(40)	75(55)	88(65)	122(90)	149(110)	197(145)	203(150)	278(205)
3/4	1-1/8	102(75)	136(100)	163(120)	217(160)	258(190)	353(260)	366(270)	495(365)
7/8	1-5/16	163(120)	224(165)	163(120)	224(165)	414(305)	563(415)	590(435)	800(590)
1	1-1/2	244(180)	332(245)	244(180)	332(245)	624(460)	848(625)	881(650)	1193(880)
1-1/8	1-11/16	346(255)	468(345)	346(255)	468(345)	780(575)	1058(780)	1248(920)	1695(1250)
1-1/4	1-7/8	488(360)	664(490)	488(360)	665(490)	1098(810)	1492(1100)	1763(1300)	2393(1765)
1-3/8	2-1/16	637(470)	868(640)	637(470)	868(640)	1438(1061)	1953(1440)	2312(1705)	3140(2315)
1-1/2	2-1/4	848(625)	1153(850)	848(625)	1153(850)	1912(1410)	2590(1910)	3065(2260)	4163(3070)

AB6;TS236, TS237 053;TORQ3. 220188

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FUEL SPECIFICATIONS

Use ONLY clean, high-quality fuel.

Use Grade No. 2-D fuel above 4°C (40°F).

Use Grade No. 1-D fuel below 4°C (40°F).

Use Grade No. 1-D fuel for all air temperatures at altitudes above 1 500 m (5000 ft).

IMPORTANT: If fuel sulfur content exceeds 0.5 per cent, the engine oil drain interval must be reduced by 50 per cent (to 125 hours).

Use fuel with less than 1.0 per cent sulfur. If possible, use fuel with less than 0.5 per cent sulfur.

For maximum filter life, sediment and water should not be more than 0.10 per cent.

The cetane number should be 40 minimum. If you operate your machine where air temperatures are normally low or where altitudes are high, you may need fuel with a higher cetane number.

Cloud Point—For cold weather operation, cloud point should be 6°C (10°F) below lowest normal air temperature.

T82;BHFL F. 310186

FUEL STORAGE

NOTE: Diesel fuels stored for a long time may form gum or bacteria and plug filters.

Keep fuel in a clean container in a protected area. Water and sediment must be removed before fuel gets to the engine. Do not use de-icers to remove water from fuel. Do not depend on fuel filters to remove water.

If possible, install a water separator at the storage tank outlet. (See your John Deere dealer).

IMPORTANT: Keep all dirt, scale, water or other foreign material out of fuel.

Store fuel drums on their sides with plug up.

T82;BHFL G. 310186

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REMOVE REAR WHEEL ASSEMBLY

CAUTION: Rear wheel weighs approximately 141 kg (310 lb) without fluid; with fluid, 420 kg (930 lb).

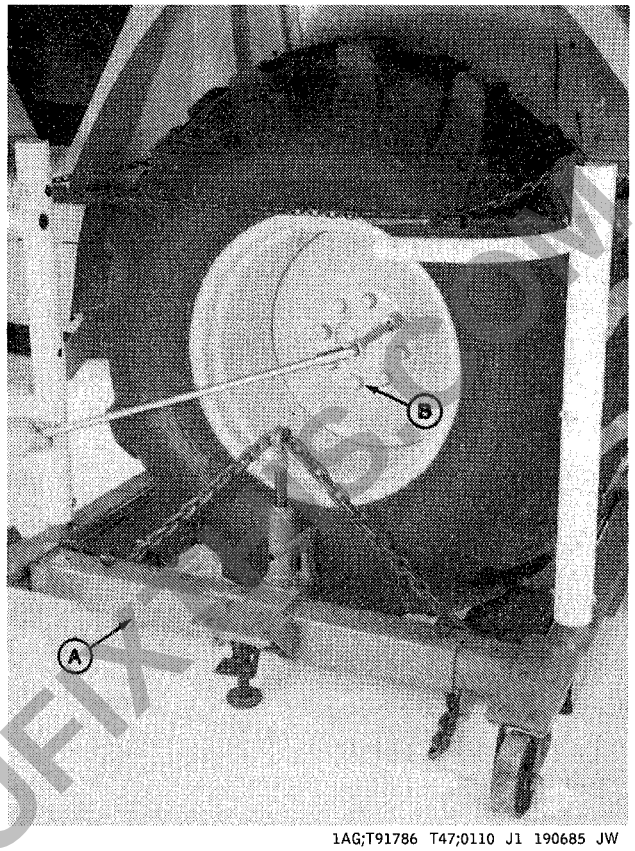
1. Loosen cap screws before lifting the wheel off the ground.

2. Raise unit and put shop stand under main frame.

3. Put the wheel lift (A) under wheel. Fasten safety chain around the upper portion of tire.

4. Remove cap screws (B). Pull wheel assembly away from axle.

5. Inspect all parts for damage; replace parts as necessary.



1AG;T91786 T47;0110 J1 190685 JW

REMOVE FRONT WHEEL ASSEMBLY

CAUTION: Steer axle wheel weights approximately 50 kg (110 lb) without fluid, 186 kg (411 lb) with fluid.

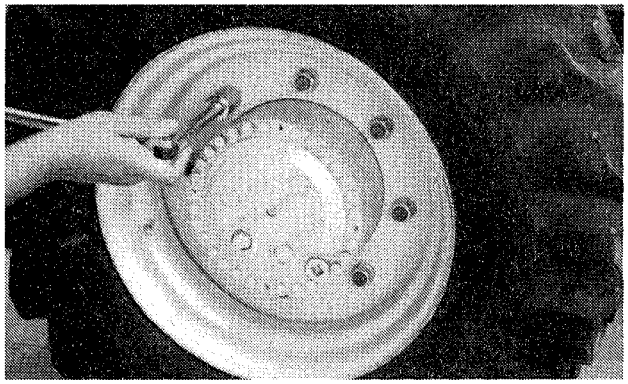
1. Loosen lug nuts.

2. Lift wheel off the ground and put floor stand under axle housing.

3. Put wheel lift under wheel. Fasten safety chain around the upper portion of tire.

4. Remove the cap screws. Pull wheel assmbly away from axle.

5. Inspect all parts for damage; replace parts as necessary.

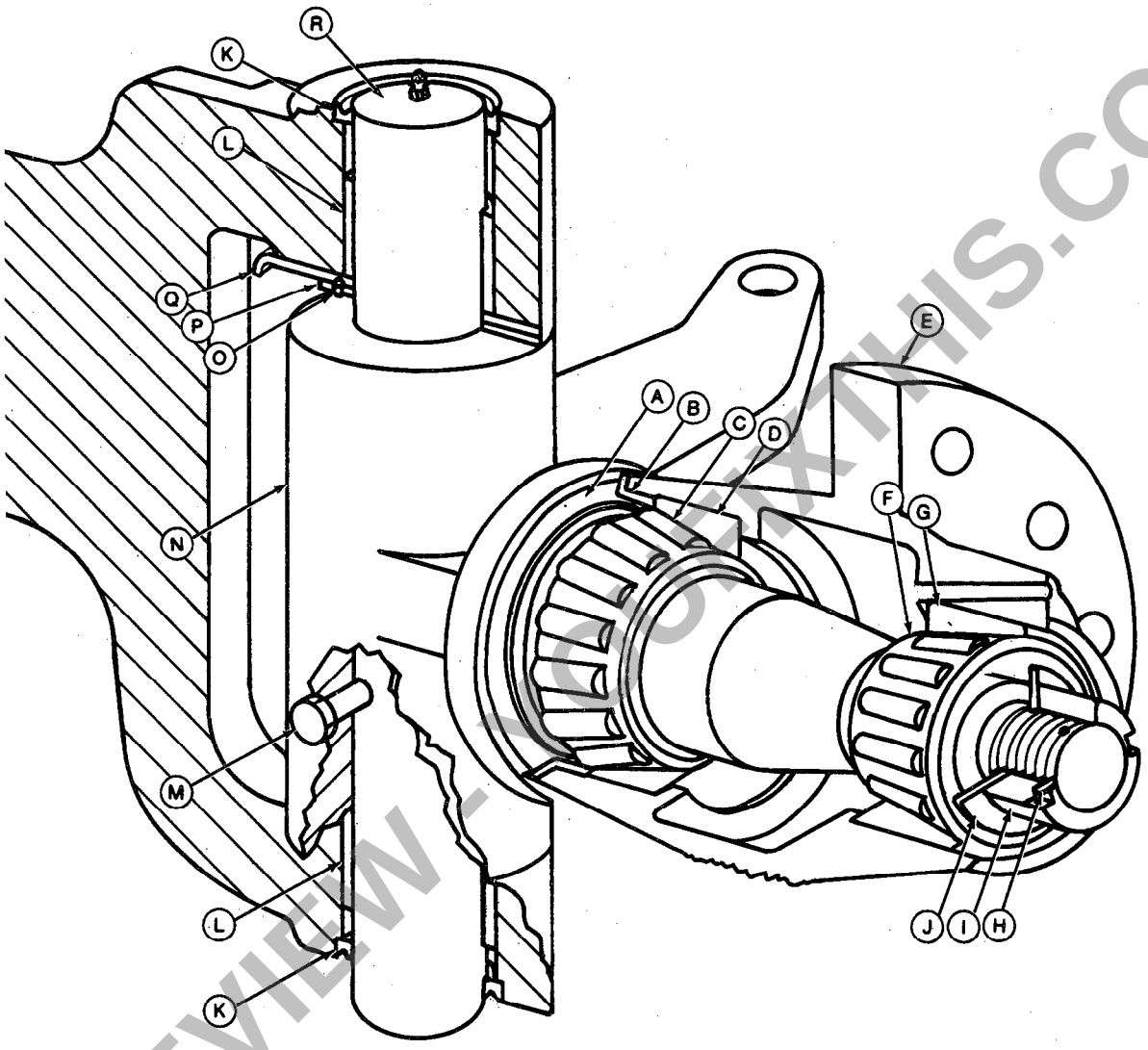


1AG;T6382BI T47;0110 J9 140987

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CROSS SECTION OF AXLE, HUB, AND KNUCKLE ASSEMBLY

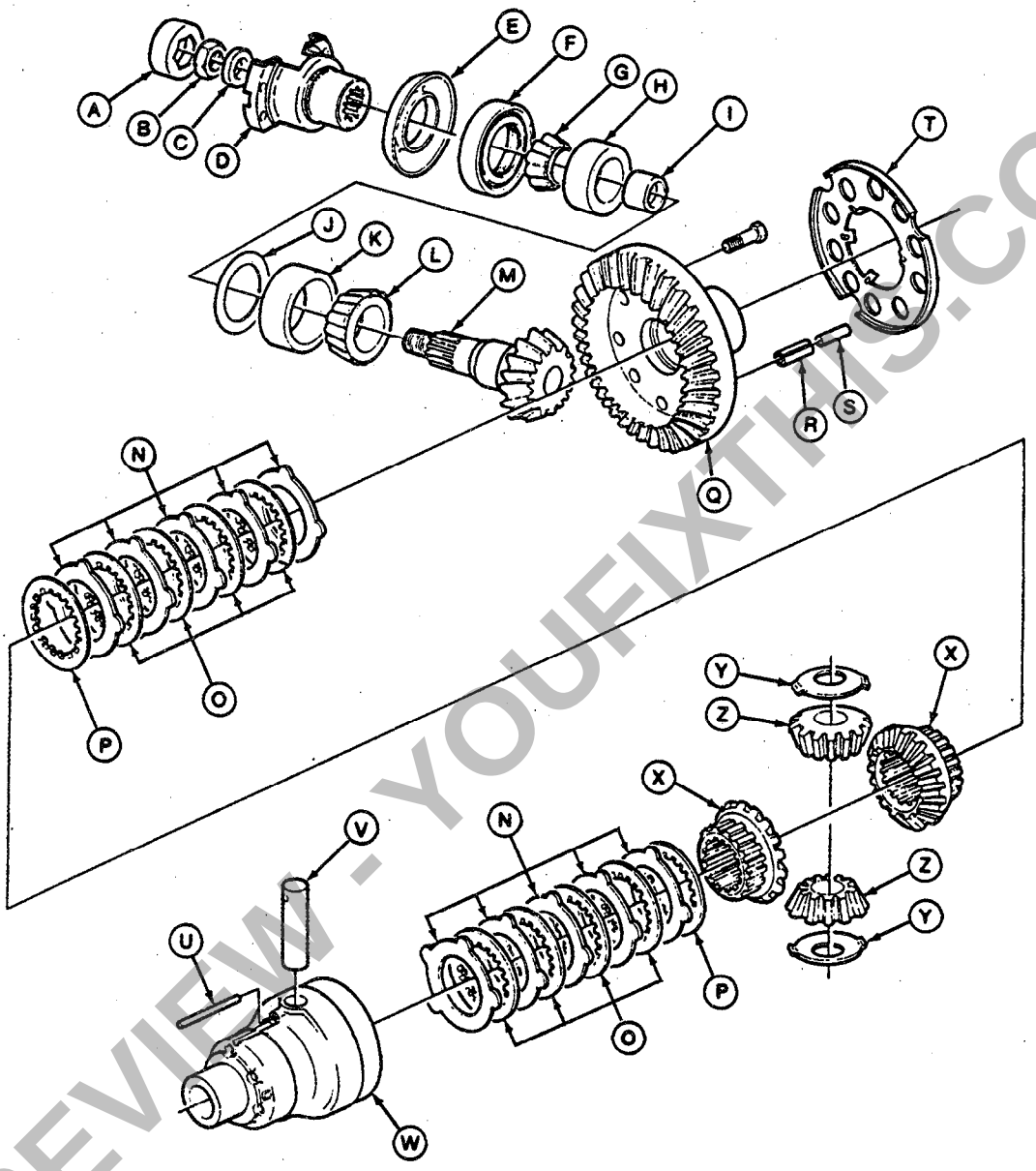


A—Seal
B—Seal Cup
C—Bearing Cone
D—Bearing Cup
E—Hub
F—Bearing Cone
G—Bearing Cup
H—Cotter Pin
I—Nut
J—Washer
K—Seal (2 used)
L—Bushing (2 used)
M—Cap Screw
N—Knuckle
O—Spring Pin
P—Thrust Washer
Q—Stop Thrust Washer
R—Kingpin

8AG;T6142AK T47;0230 J15 020785 JW

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DIFFERENTIAL EXPLODED VIEW (APL 735 AXLE)



A—Lock Plate
B—Hex Nut
C—Washer
D—Yoke
E—Dust Cap
F—Oil Seal
G—Bearing Cone
H—Bearing Cup
I—Measuring Ring / Spacer
J—Spacer
K—Bearing Cup
L—Bearing Cone
M—Pinion Shaft
N—External Splined Disk
O—Internal Splined Disk
P—Thrust Washer
Q—Ring Gear
R—Clamping Sleeve
S—Spring Pin
T—Lock Plate
U—Roll Pin
V—Bevel Pinion Shaft
W—Differential Housing
X—Bevel Gear
Y—Thrust Washer
Z—Bevel Pinion

6NA;T6382I N T47;;0240 -A40 020687

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DIAGNOSE NO-LOAD TEST

Symptom	Problem	Solution
Low Free Speed And High Current Draw	Too much friction	Check for bad bearings, bent armature shaft or loose pole shoes.
	Shorted armature	Do short circuit test.
	Grounded armature or fields	Do grounded circuit test.
Fails To Operate And High Current Draw	Direct ground in the terminal or fields	Do grounded circuit test.
	Seized bearings	Replace bearings.
Fails To Operate And No Current Draw	Open field circuit	Do open circuit test.
	Open armature coils	Check for badly burned commutator bars.
	Poor contact between brushes and commutator	Check for broken brush springs, worn brushes and high insulation between the commutator bars.
Low No-Load Speed And Low Current Draw	High internal resistance	Check for poor connections, defective leads, dirty commutator, broken brush springs, worn brushes and high insulation between the commutator bars.
High No-Load Speed And High Current Draw	Shorted fields	Do short circuit test.

T52;1677 K11 260985

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Item	OK	Comments
3. Test priority valve relief pressure	☐	
4. Test steering pump relief pressure	☐	
Gauge pressure		
5. Test relief valves		
Backhoe valve		
Crowd out	☐	
Crowd in	☐	
Bucket curl	☐	
Bucket dump	☐	
Boom lower	☐	
Boom raise	☐	
Swing left	☐	
Swing right	☐	
Loader valve		
Bucket head end	☐	
Bucket rod end	☐	
6. Test main pump flow	☐	
7. Test steering pump flow	☐	
8. Test backhoe and loader cylinder drift	☐	
Drift rate (backhoe)		
Drift rate (loader)		
9. Test reverser element for leakage—four page method	☐	
Gauge pressure		
10. Test torque converter stall speed	☐	
RPM		

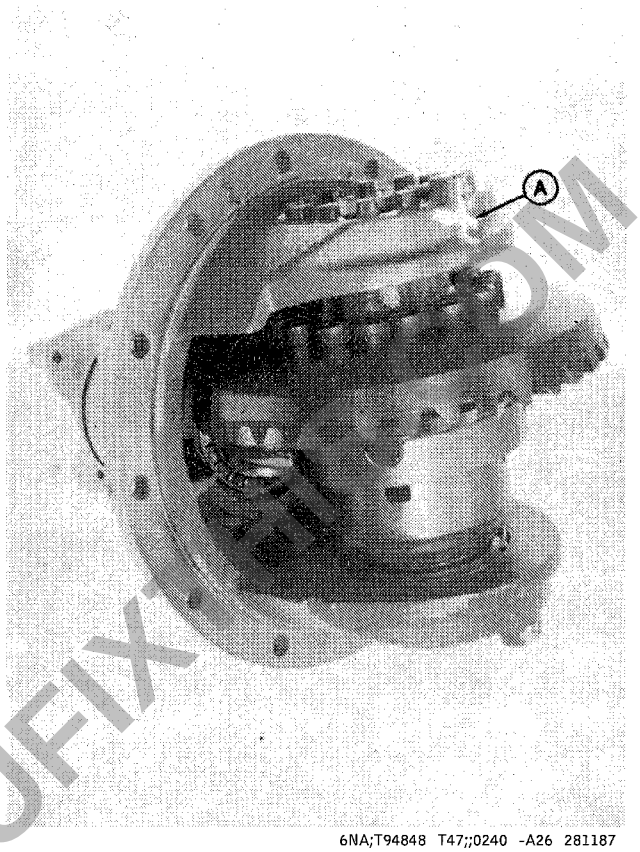
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DISASSEMBLE DIFFERENTIAL—APL 1552

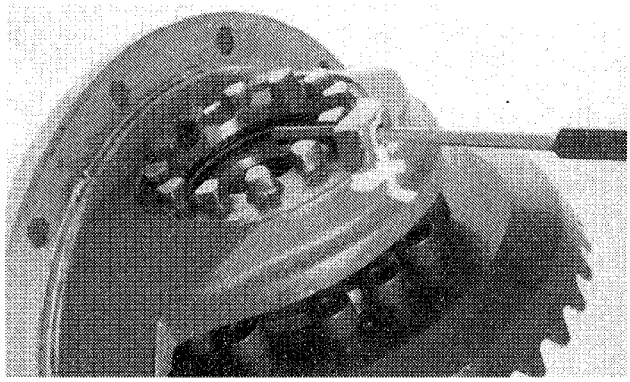
IMPORTANT: For correct operation, ring gear must be installed so it is on the right side of unit when carrier housing is installed.

1. Put a mark (A) on ring gear side of housing to aid in installation.



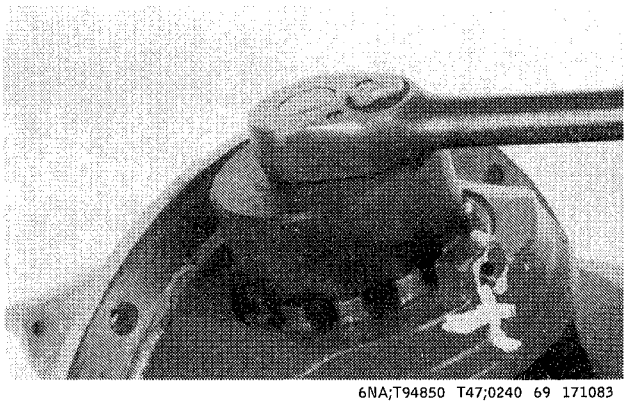
6NA;T94848 T47;;0240 -A26 281187

2. Remove roll pin from each side.



6NA;T94849 T47;0240 68 171083

3. Remove adjusting nut from each side using KML-10008 Ring Nut Socket.



6NA;T94850 T47;0240 69 171083

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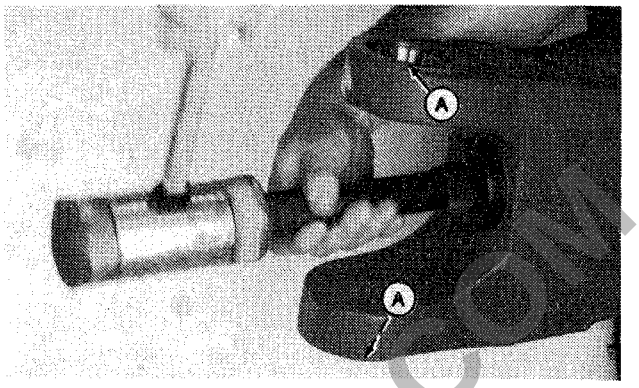
ASSEMBLE AND ADJUST KNUCKLE HOUSING AND WHEEL HUB WITH PLANETARY DRIVE—APL 735 AXLE

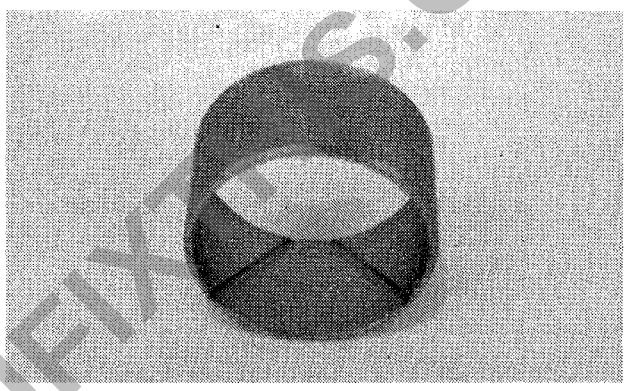
1. Install bearing cups (A) using 67 mm and 74 mm disk from driver set.

NOTE: Align bushing so vee formed by oil grooves is at bottom of bushing, pointing to center of axle.

2. Install axle bushing using a 45 mm and 49 mm disk from driver set .

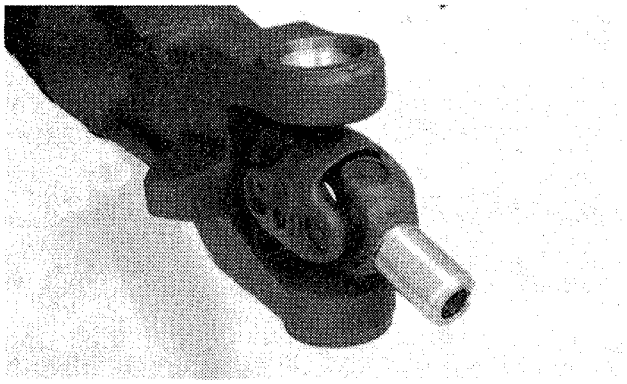
3. Install axle seal using a 45 mm and 74 mm disk from driver set.





6NA;T6136A G1 T6382J P T47;;0240 -A79 220687

4. Install axle shaft.



6NA;T6382J Q T47;;0240 -A80 020687

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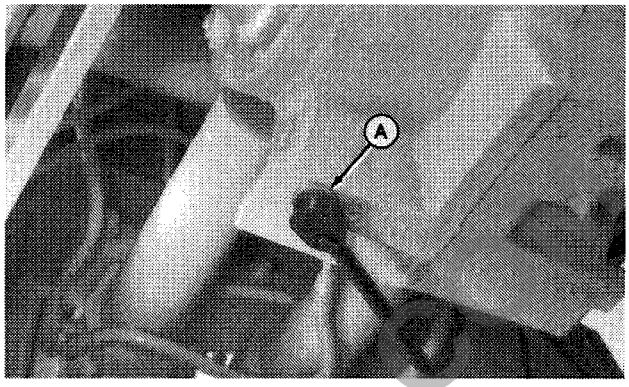
REMOVE TRANSAXLE

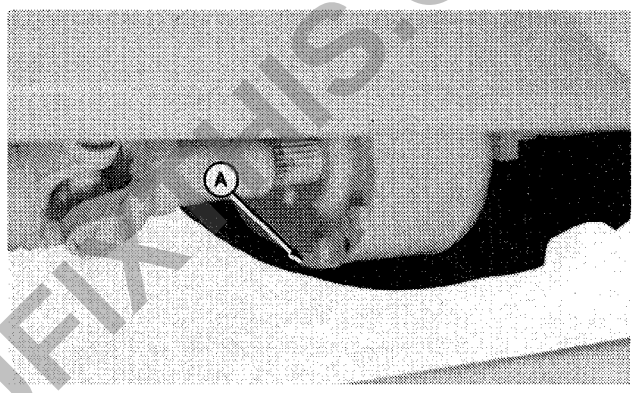
1. Remove 3-point hitch if equipped. (See Group 4200.)

NOTE: Transaxle hydraulic oil capacity is approximately 23 L (6 gal).

MFWD transaxle hydraulic oil capacity is approximately 37 L (9.75 gal) early units and 24 L (6.25 gal) later units.

2. Remove drain plugs to drain oil. For MFWD, (mechanical front wheel drive) unit, also remove drain plug from transfer case. Drain oil, install plugs.



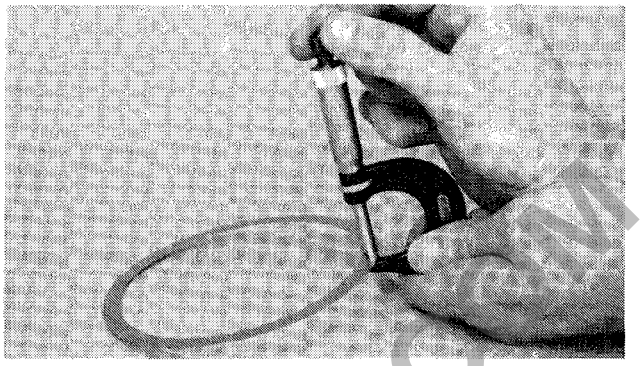


0AH;T6001AJ, 002;T94427 T48;0300 K287 140688

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3. Measure each shim separately to equal the shim pack needed.



3AG;T77781 T48;0350 1424 180583

Example for finding cone point shim pack.

36.627 mm	1.442 in.	- width of bearing cup and cone
+161.34 mm	6.352 in.	- dimension on differential drive shaft
=197.967 mm	7.794 in.	- sum of Step 1
198.463 mm	7.813 in.	- dimension stamped on top of transmission case
-197.967 mm	7.794 in.	- sum of Step 1
= 0.496 mm	0.019 in.	- cone point shim pack needed

T48;0350 1425 231085

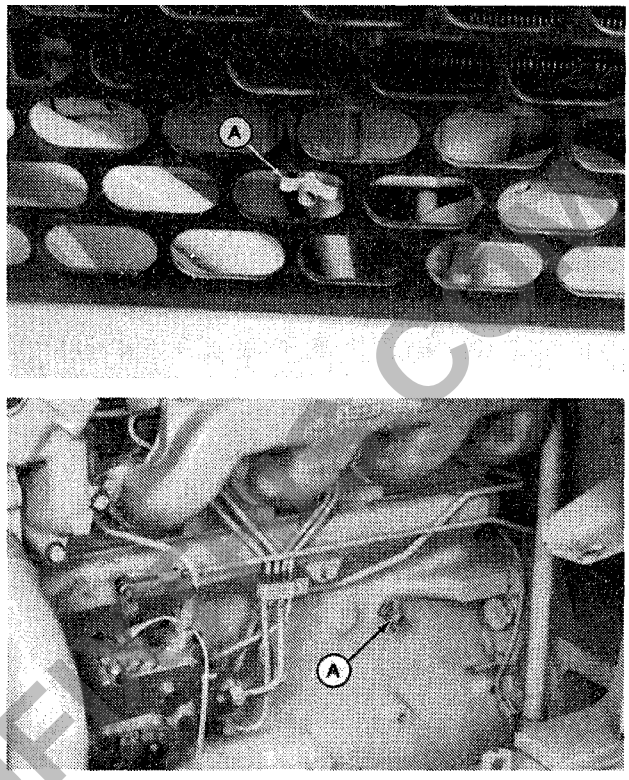
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CAUTION: DO NOT remove coolant until radiator is cool.

NOTE: Engine coolant capacity is approximately 21 L (22 qt).

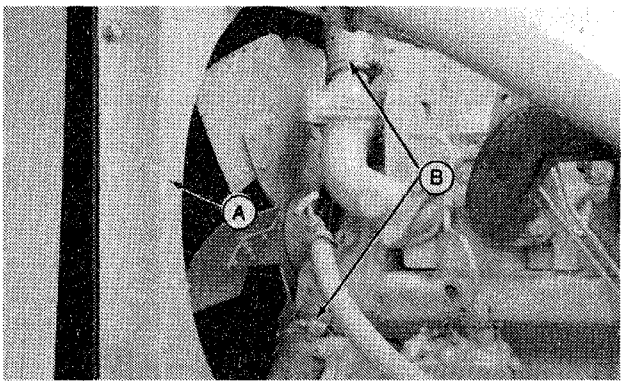
8. Open (A) to drain coolant from radiator and engine.



9AI;T6000AH,T6164FY1 T49;0400 J6 060685

9. Remove fan shroud (A) cap screws. Move shroud away from radiator.

10. Disconnect both radiator hoses (B).



9AI;T6154AI T49;0400 J7 060685 JW

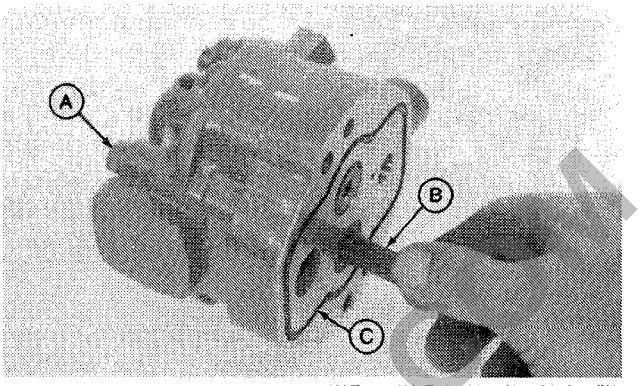
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2. Install cap screws (A). Tighten cap screws to 24 N·m (18 lb-ft).

3. Install shaft (B) and turn by hand to make sure gears turn freely.

4. Install new O-ring (C).



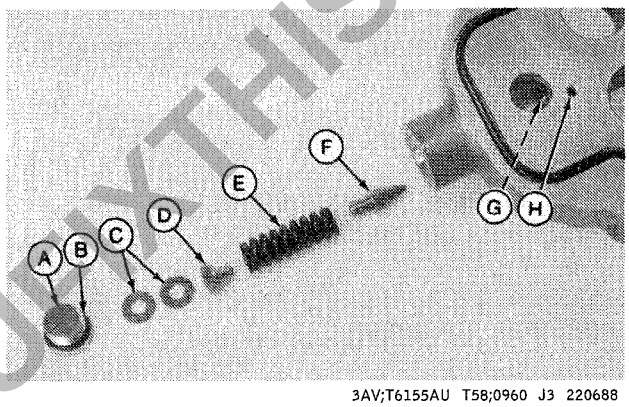
3AV;T6155AV T58;0960 J6 100785 JW

DISASSEMBLE AND ASSEMBLE STEERING PUMP RELIEF VALVE (VICKERS)

NOTE: See Group 2160 for replacement of Sundstrand/ Sauer steering pump relief valve used on later units.

1. Inspect parts (A—H).

A—Plug
B—O-Ring
C—Shims
D—Pilot
E—Spring
F—Valve
G—Seat
H—Spring Pin



3AV;T6155AU T58;0960 J3 220688

REMOVE AND INSTALL STEERING VALVE

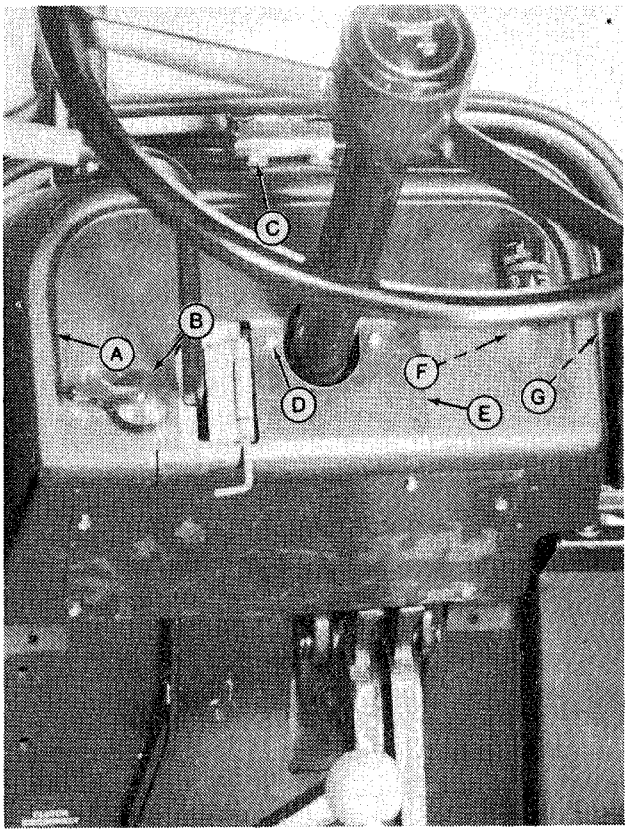
1. Remove cap screws (D) to remove panel (E).

2. Remove knob (B).

3. Disconnect hose (F) (310C only).

4. Remove cap screws (C).

5. Remove cap screws (G) to remove cowl (A).



2AW;T6191AJ T58;0960 C4 200985

A—Cowl
B—Knob
C—Cap Screw (2 used)
D—Cap Screw (7 used)
E—Panel
F—Hose
G—Cap Screw (7 used)

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Section 11
PARK BRAKE

CONTENTS

Page

GROUP 1111—ACTIVE ELEMENTS
Service Equipment and Tools 1111-1
Other Materials 1111-1
Park Brake
Remove 1111-3
Install 1111-5

GROUP 1115—CONTROLS LINKAGE
Park Brake
Adjust 1115-1

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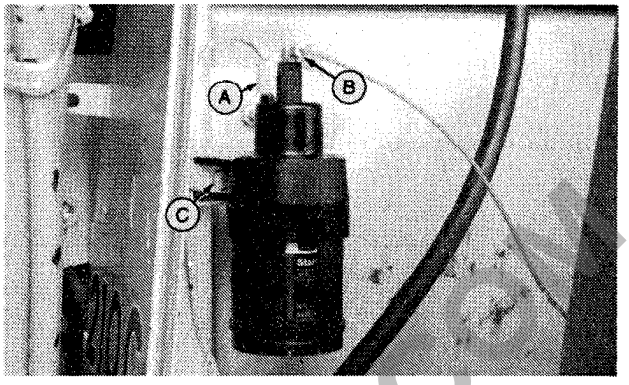
T51;1100 J167 020785 JW

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REMOVE AND INSTALL START AID SOLENOID

NOTE: Start aid solenoid removal for 210C, 310C and 315C are similar. 210C shown.

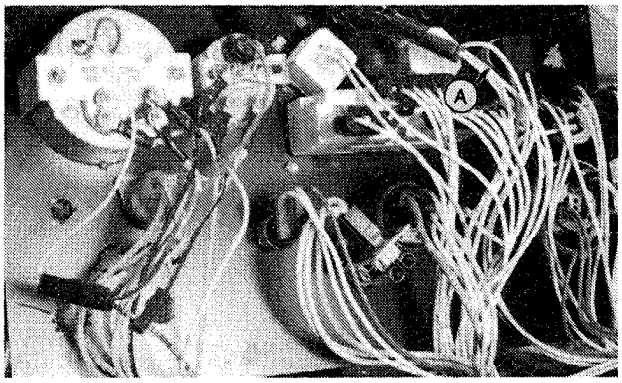
1. Remove right engine side shield.
2. Disconnect wiring harness (A).
3. Turn housing counterclockwise to remove starting fluid can.
4. Remove elbow (B) and cap screws (C) to remove start aid solenoid.
5. Install solenoid, cap screws (C), and elbow (B).
6. Install start aid can and housing.
7. Connect wiring lead (A).
8. Install right engine side shield.



6AL;T6195AH1 T52;1674 C6 290886

REMOVE AND INSTALL START AID SWITCH

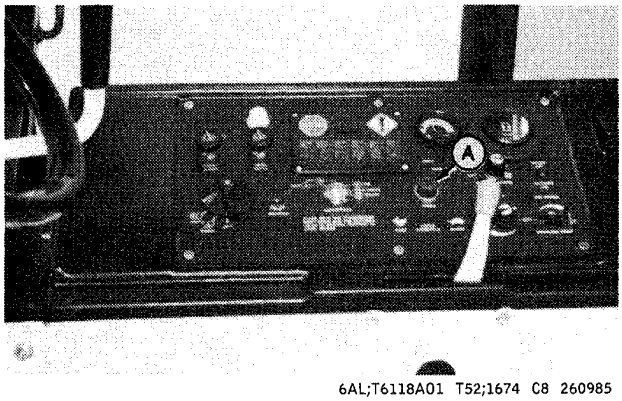
1. Remove heater switch knob (if equipped) and instrument panel.
2. Disconnect wire leads, loosen nut, and turn switch cover counterclockwise to remove switch (A).
3. Install switch and connect wire leads 12A, 12B, and 25.
4. Install instrument panel and heater knob (if equipped).



6AL;T6195AR1 T52;1674 C7 250985

REMOVE AND INSTALL HORN SWITCH

1. Remove heater switch knob (if equipped) and instrument panel.
2. Disconnect wire lead, loosen nut, and turn horn switch (A) cover counterclockwise to remove switch.
3. Install horn switch (A) and connect wire leads.
4. Install instrument panel and heater switch knob (if equipped).



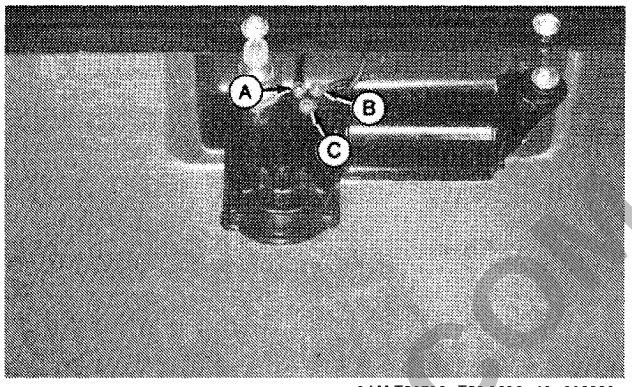
6AL;T6118A01 T52;1674 C8 260985

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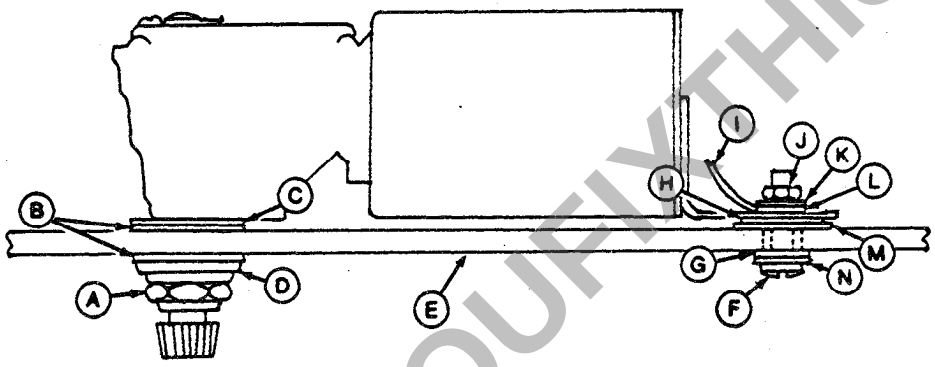
3. Connect wire leads to wiper motor terminal posts.

REAR WIPER TERMINAL CONNECTIONS

Terminal	Function	Wire No.
A	Park	606
B	High	608
C	Low	607



1AM;T90718 T52;1810 42 200583

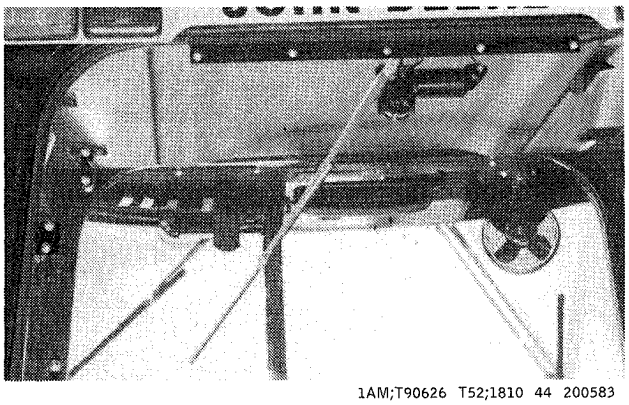


A—Nut
B—Gasket
C—Washer 1⅛ in. O.D.
D—Driver Nut
E—Rear Window
F—Screw
G—Bushing
H—Washer ⅞ in. O.D.
I—Ground Wire
J—Nut
K—Washer ½ in. O.D.
L—Lock Washer
M—Plastic Washer
N—Washer ⅝ in. O.D.

4. Install wiper motor and hardware as shown. Tighten nuts (A and J) to 2.7 N·m (24 lb-in).

1AM;T90625 T52;1810 43 200583

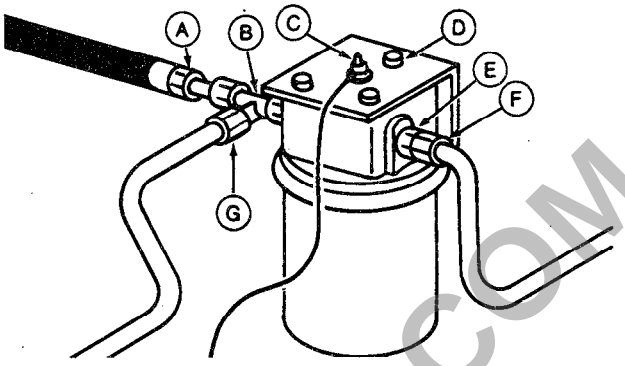
5. Install blade as shown in the park position.



1AM;T90626 T52;1810 44 200583

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REMOVE AND INSTALL HYDRAULIC FILTER



1. Disconnect lines (A, E, and F). Remove tee (B). Close all openings with caps and plugs.

2. Disconnect switch (C) wiring lead.

3. Remove cap screws (D) to remove filter assembly.

4. Install tee (B) and adapter (E). Tighten adapter to 114 ± 27 N·m (84 ± 20 lb-ft).

5. Install filter assembly and cap screws (D). Tighten cap screws to 34 ± 7 N·m (25 ± 5 lb-ft).

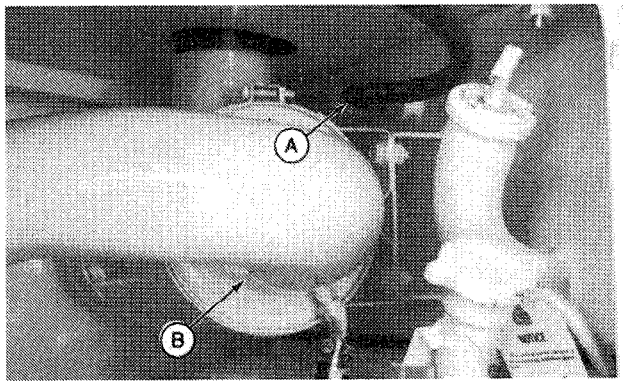
6. Connect wiring lead to switch (C).

7. Connect lines (A, E, and F).

A—Line-From Backhoe Valve
B—Tee
C—Restriction Indicator Switch
D—Cap Screw (3 used)
E—Adapter
F—Line-To-Reservoir
G—Line-From Loader Valve

6AW;T6158AI T58;2160 J29 120785 JW

REMOVE RESERVOIR—210C



1. Remove grille, hood, and both side shields.

2. Disconnect reservoir breather (A).

3. Disconnect hose (B).

4. Remove fan shroud cap screws. Move shroud away from radiator.

6AW;T6118BA1 T58;2160 J2 221085 JW

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6. Install seal expander.

NOTE: The cap seal can be made more pliable by warming it with your hands or by putting seal in hot water for approximately 5 minutes.

Once started, install cap seal as quickly as possible to keep the amount of time that seal is stretched to a minimum.

7. Push seal on end of piston.

8. Install a plastic tie band around cap seal with the smooth side against seal.

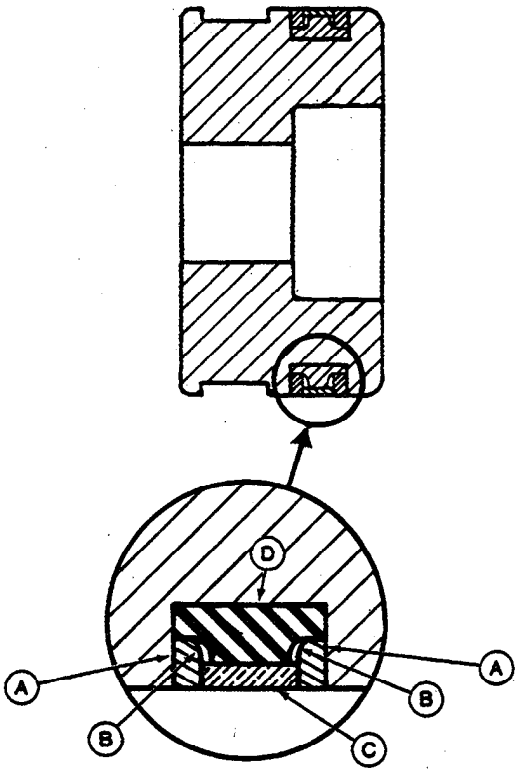
9. Pull cap seal across land into position over seal expander using the plastic tie band.



022;T6122AC, T6122AE T62;120 J82 031286

IMPORTANT: For proper fit, the backup rings must be installed with the radius toward seal expander.

10. Install backup rings (A) with radius (B) toward seal expander (D).



A—Backup Ring (2 used)
B—Radius
C—Cap Seal
D—Seal Expander

022;T6126A0 T62;120 J83 031286

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5. Put spool in a vise. Remove screw to release spring and retainers.



7AV;T6020AJ T58;3360 J154 110985 JW

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7. Install seal expander (A).

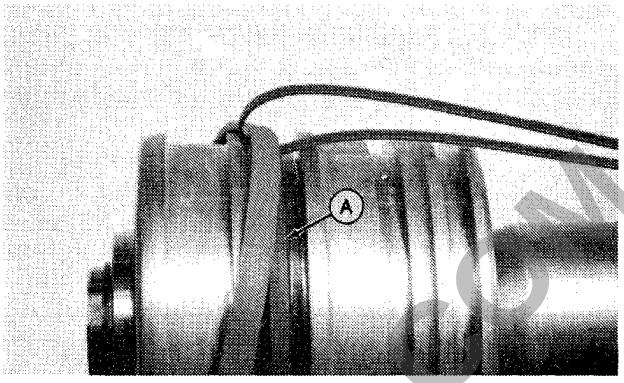
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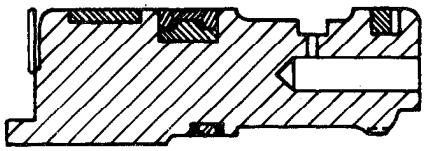
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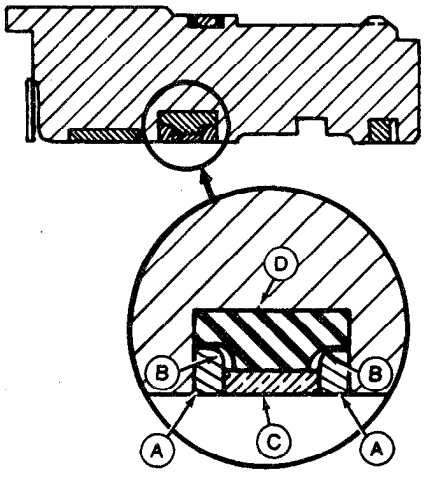


022;T6213BT T62;0120 J55 080188

IMPORTANT: For proper fit the backup rings must be installed with the radius toward seal expander.

11. Install backup rings (A) with radius (B) toward seal expander (D).





A—Backup Ring (2 used)
B—Radius
C—Cap Seal
D—Seal Expander

022;T6218BD T62;0120 J56 090388

T92;333360 61 020388

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