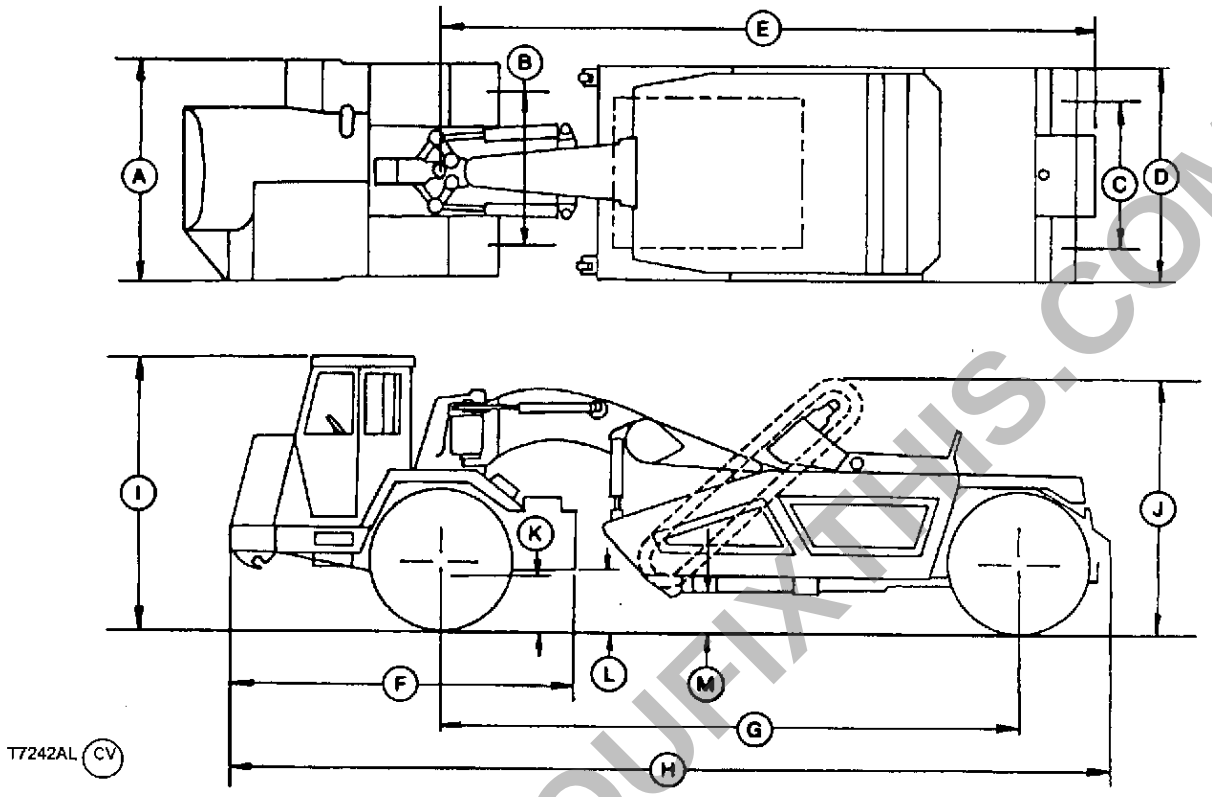
762B



T7242AL -UN-22MAR90

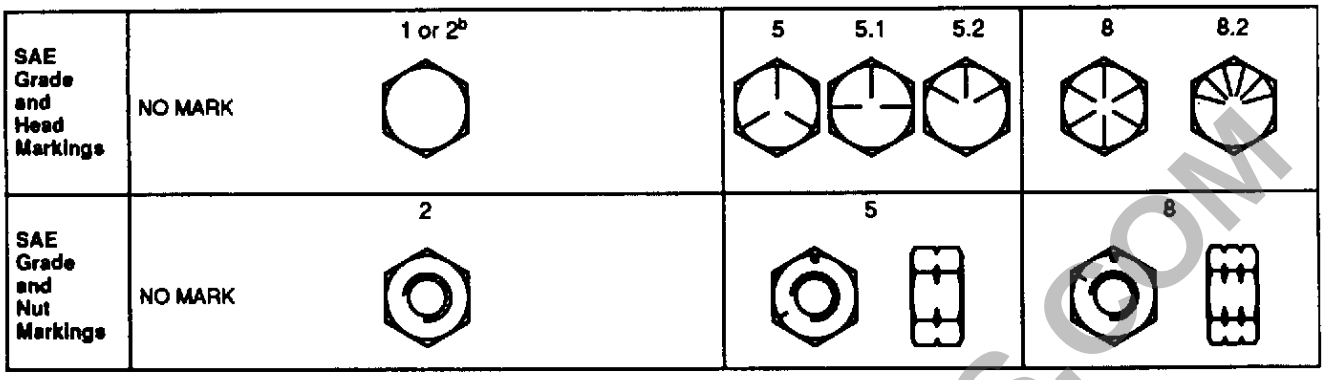
Key	Bowl At Ground Level	Bowl Up	Bowl Level
A	2.44 m (8 ft)	2.44 m (8 ft)	2.44 m (8 ft)
B	1.82 m (5 ft 11.7 in.)	1.82 m (5 ft 11.7 in.)	1.82 m (5 ft 11.7 in.)
C	1.82 m (5 ft 11.7 in.)	1.82 m (5 ft 11.7 in.)	1.82 m (5 ft 11.7 in.)
D	2.44 m (8 ft)	2.44 m (8 ft)	2.44 m (8 ft)
E	6 m (19 ft 8.2 in.)	6 m (19 ft 8.2 in.)	6 m (19 ft 8.2 in.)
F	3.95 m (12 ft 11.5 in.)	3.96 m (13 ft)	3.96 m (13 ft)
G	6.4 m (21 ft 0.3 in.)	6.20 m (20 ft 4.1 in.)	6.25 m (20 ft 7 in.)
H	10 m (32 ft 9.5 in.)	9.81 m 32 ft 2.5 in.)	9.9 m (32 ft 5.4 in.)
I	3 m (9 ft 10 in.)	2.84 m (9 ft 4 in.)	2.90 m (9 ft 6.4 in.)
J	2.62 m (8 ft 7 in.)	2.89 m (9 ft 6 in.)	2.79 m (9 ft 2 in.)
K	470 mm (18.5 in.)	470 mm (18.5 in.)	470 mm (18.5 in.)
L	435 mm (17.1 in.)	556 mm (21.9 in.)	508 mm (20 in.)
M: Without Teeth		438 mm (17.3 in.)	305 mm (12 in.)
With Teeth		394 mm (15.5 in.)	254 mm (10 in.)

Cut below ground level without teeth	279 mm (11.0 in.)
Cut below ground level with teeth	324 mm (12.8 in.)

TX,115,FF1533 -19-03MAY90

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UNIFIED INCH BOLT AND CAP SCREW TORQUE VALUES



-19-04MAR91
TS1162

Size	Grade 1				Grade 2[b]				Grade 5, 5.1, or 5.2				Grade 8 or 8.2			
	Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]	
	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	3.7	2.8	4.7	3.5	6	4.5	7.5	5.5	9.5	7	12	9	13.5	10	17	12.5
5/16	7.7	5.5	10	7	12	9	15	11	20	15	25	18	28	21	35	26
3/8	14	10	17	13	22	16	27	20	35	26	44	33	50	36	63	46
7/16	22	16	28	20	35	26	44	32	55	41	70	52	80	58	100	75
1/2	33	25	42	31	53	39	67	50	85	63	110	80	120	90	150	115
9/16	48	36	60	45	75	56	95	70	125	90	155	115	175	130	225	160
5/8	67	50	85	62	105	78	135	100	170	125	215	160	240	175	300	225
3/4	120	87	150	110	190	140	240	175	300	225	375	280	425	310	550	400
7/8	190	140	240	175	190	140	240	175	490	360	625	450	700	500	875	650
1	290	210	360	270	290	210	360	270	725	540	925	675	1050	750	1300	975
1-1/8	400	300	510	375	400	300	510	375	900	675	1150	850	1450	1075	1850	1350
1-1/4	570	425	725	530	570	425	725	530	1300	950	1650	1200	2050	1500	2600	1950
1-3/8	750	550	950	700	750	550	950	700	1700	1250	2150	1550	2700	2000	3400	2550
1-1/2	1000	725	1250	925	990	725	1250	930	2250	1650	2850	2100	3600	2650	4550	3350

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

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 fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

[a] "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without any lubrication.

[b] Grade 2 applies for hex cap screws (not hex bolts) up to 152 mm (6-in.) long. Grade 1 applies for hex cap screws over 152 mm (6-in.) long, and for all other types of bolts and screws of any length.

DX,TORQ1 -19-20JUL94

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REMOVE AND INSTALL WHEEL

CAUTION: Approximate weight of wheel is 795 kg (1750 lb).

0110
2

1. Loosen cap screws before lifting machine off ground.

2. Use a service jack or a hoist of at least 1800 kg (20-ton) capacity to lift machine until the wheel is off the ground.

3. Put a shop stand of at least 1800 kg (20-ton) capacity under the axle housing.

4. Put a wheel lift (A) under the raised wheel. Fasten the safety chain, from wheel lift, around the upper portion of tire.

5. Remove cap screws. Pull wheel from flanged axle.



TX,0110,DT433 -19-25MAY94

6. Thoroughly clean the cap screws, washers and the tapped holes in the flanged axle.

7. Install special studs (A) in the axle. The special studs are used as guides for installing wheels.

8. Use a wheel lift (B) to install wheel.

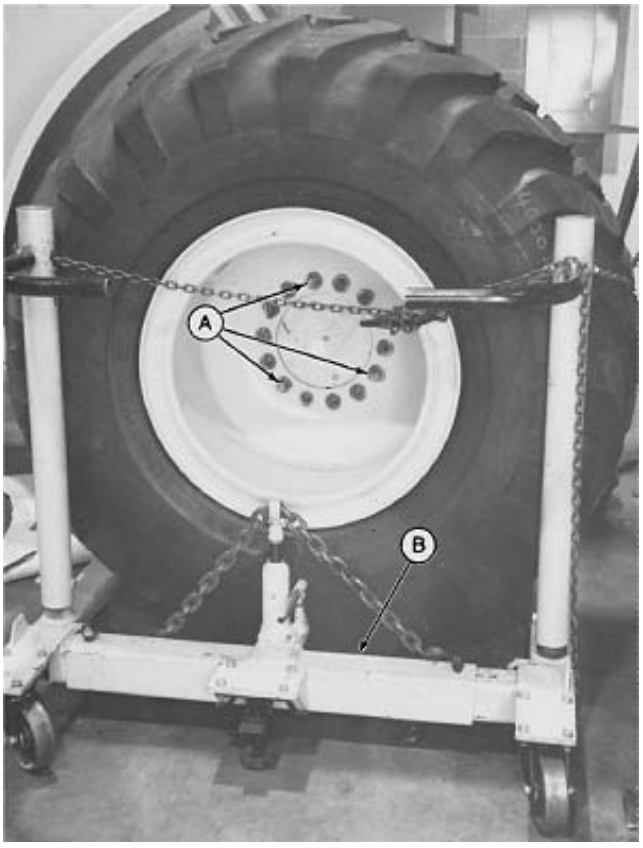
9. Install and tighten cap screws to 203 N·m (150 lb-ft).

10. Lower machine to the ground.

IMPORTANT: If a power wrench is used, be sure cap screws are engaged to prevent stripping. Run the wrench slowly to prevent thread damage.

11. Cross tighten cap screws to 542 N·m (400 lb-ft).

12. Retorque cap screws after 5 to 100 hours of operation.

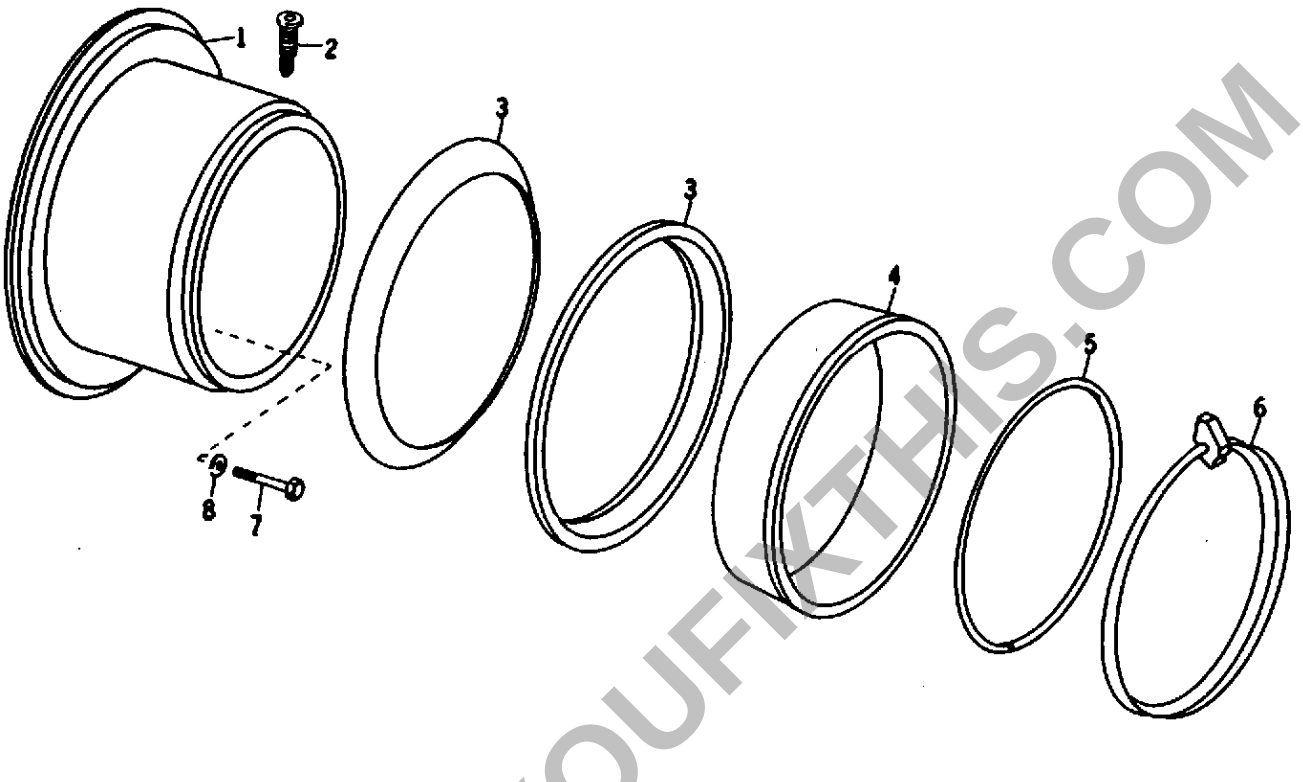


TX,0110,DT434 -19-06MAY94

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REMOVE AND INSTALL TIRE



1—Wheel Rim
2—Valve Stem
3—Side Ring (2 used)
4—Bead Seat Ring
5—O-Ring
6—Lock Ring
7—Cap Screws (14 used)
8—Special Washer (14 used)

TX,0110,DT435 -19-09FEB99

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INDX 1

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020399
PN=758

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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.



TS227 -UN-23AUG88

DX,FLAME -19-29SEP98

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).



TS204 -UN-23AUG88

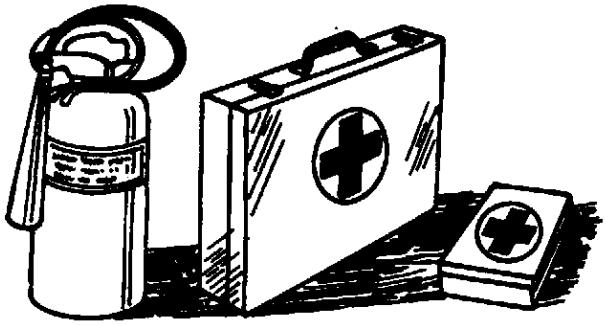
DX,SPARKS -19-03MAR93

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.



TS291 -UN-23AUG88

DX,FIRE2 -19-03MAR93

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INSTALL SUSPENSION AXLE AND DIFFERENTIAL—862B

Apply oil to threads of suspension-frame-to-axle bolts.

Suspension axle frame-to-axle nut torque
(for 559 mm [22 in.] bolts) (8 used) . . . . . 271 N·m
(200 lb-ft)
Continue tightening 5 Flats

Suspension axle frame-to-axle nut torque
(for 356 mm [14 in.] bolts) (4 used) . . . . . 136 N·m
(100 lb-ft)
Continue tightening 4 Flats

Drive shaft cap screws torque . . . . . 102 N·m (75 lb-ft)

Install differential and axle assembly using a low lift transmission jack.

Install pins to connect pivots.

Raise axle—differential assembly until stabilizer bar pin can be installed. Install pins to connect cylinder.

Connect hydraulic lines (A—D).

Connect grease lines.

Connect leveling valve rod.

Connect park brake lever.

Connect axle filter restriction indicator wire to filter housing.

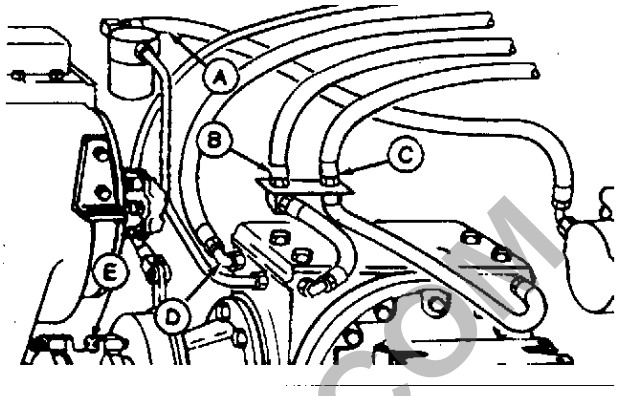
Connect drive shaft (E). Tighten cap screws to specification.

Install wheels on axle. (See Group 0110.)

Check operation of suspension, differential lock, and brakes.

Bleed brakes.

Apply grease to all suspension axle grease fittings.



(S.N. —752606) Shown

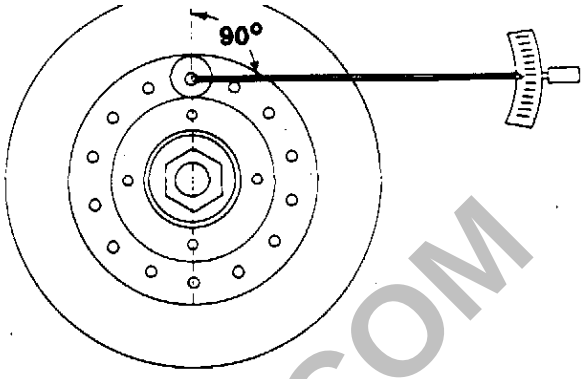
A—From Pump to Filter
B—From Differential Lock Valve
C—From Brake Valve
D—To Differential Lock Valve
E—Transmission-to-Differential Drive Shaft

T47,0200,C18 -19-05SEP95

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ADJUST REAR AXLE BEARING PRELOAD—862B



T6402AX -UN-24MAY89

IMPORTANT: Adjustments must be made with wheel and tire removed. Brake shoes must be completely free of brake drum with seals and bearings packed with grease.

Tighten slotted nut to 475 N·m (350 lb-ft) while rotating wheel hub to seat the bearings.

Loosen slotted nut to zero torque.

Rotate bearings while tightening slotted nut to 373 ± 14 N·m (275 ± 10 lb-ft). Loosen nut to nearest locking position. When nut is tightened to 373 N·m (275 lb-ft), if any part of cotter pin is visible, loosen nut one full locking position.

Check rolling drag torque with wrench positioned perpendicular to a straight line between centerline of the axle and cap screw it is placed on. Rotate wrench at a constant speed. Check for final specified torque with a new seal.

ROLLING DRAG TORQUE SPECIFICATION

Axle shaft bearings rolling drag	46—57 N·m (34—42 lb-ft)

Tighten wheel-to-hub cap screws.

WHEEL CAP SCREWS TORQUE SPECIFICATIONS

Wheel-to-hub cap screws	542 N·m (400 lb-ft)

Level cutting edge. (See Adjust Cutting Edge Level in Group 3501.)

T47,0230,C25 -19-05JAN96

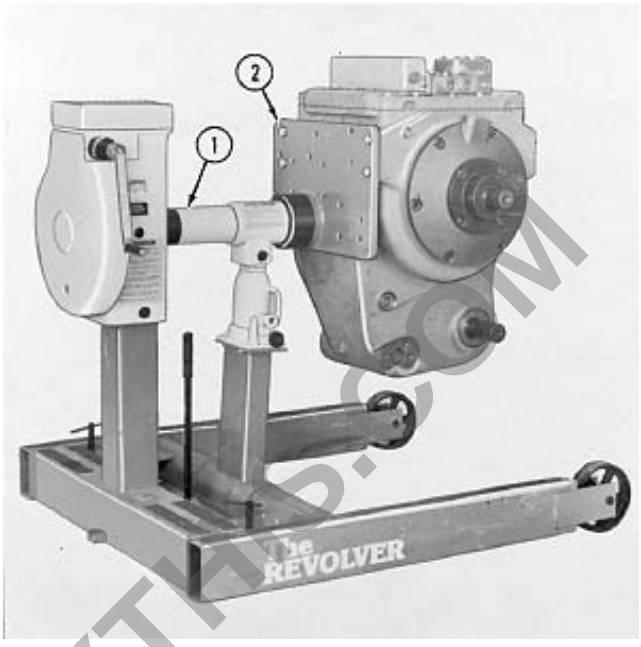
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Attach transmission to repair stand.

Repair as needed.

1—D-05223ST Repair Stand
2—D-05144ST Adapter Plate



T71763 -UN-22MAR90

T48,0300,M29 -19-30DEC86

Install transmission and leave cap screw (J) loose.

Align transmission to differential drive shaft and tighten cap screws.

Install input drive shaft and tighten cap screws.

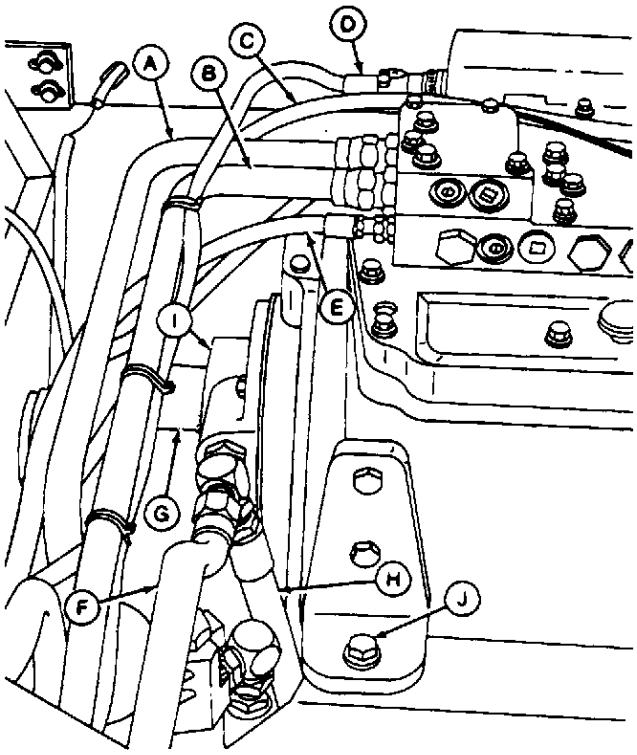
Tighten transmission mount cap screws.

TORQUE SPECIFICATIONS

Drive Shaft Cap Screws (8 used) . . . . . 163 N·m (120 lb-ft)

Cap Screw (J) . . . . . 230 N·m (170 lb-ft)

A—Transmission Pressure Inlet Line
B—Converter Inlet Line
C—Wire Harness
D—Solenoid Wire Harness
E—Converter Lockup Pressure Line
F—Lube Pressure Inlet Line
G—Drive Shaft
H—Filter Bypass Line
I—C1 Clutch
J—Cap Screw (4 used)



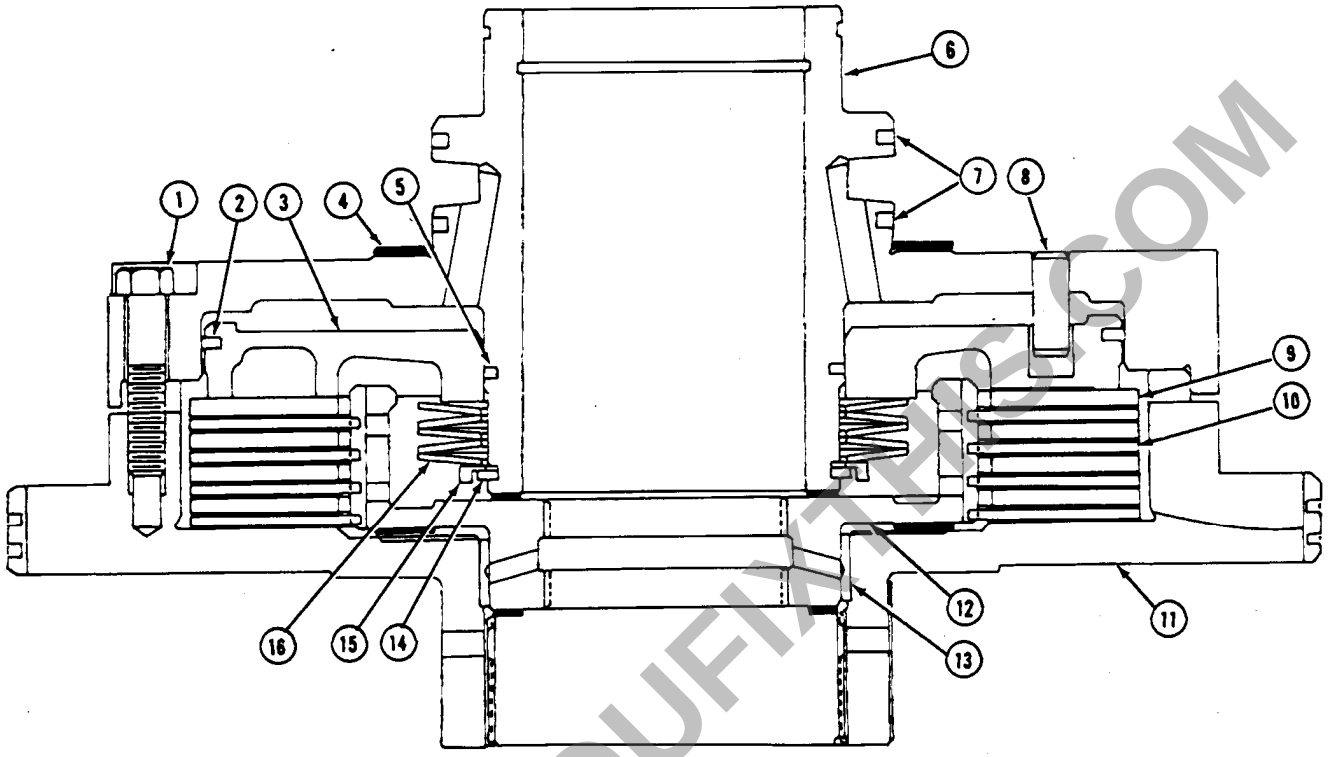
T6475BN -UN-24MAY89

T48,0300,M30 -19-24JAN87

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DISASSEMBLE AND ASSEMBLE C2 CLUTCH—762B



1—Cap Screw (6 used)
2—Outer Seal
3—Piston
4—Thrust Washer
5—Inner Seal
6—Piston Housing
7—Seal Ring (2 used)
8—Dowel Pin
9—Drive Plate (4 used)
10—Drive Discs (4 used)
11—Clutch Drum
12—Clutch Drive Hub
13—Bushing
14—Snap Ring
15—Retainer
16—Conical Washer (5 used)

T48,0350,M87 -19-06SEP95

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REMOVE AND INSTALL ENGINE OIL PAN

Remove bottom guard. Drain oil.

Remove drain line from side frame.

Remove speed control linkage.

NOTE: 762B oil capacity 22 L (24 qt)
862B oil capacity 32 L (36 qt)

Remove attaching cap screws. Remove oil pan.

Remove all old gasket and sealant materials from pan and cylinder block. Gasket surfaces must be clean.

Apply Flexible Sealant to oil pan (B) and gasket (A) surfaces.

Position rear of oil pan until it is even with rear of cylinder block.

NOTE: Apply Pipe Sealant with Teflon around threads of cap screws and plugs, except for first one to three threads.

Apply pipe sealant with Teflon to cap screw threads.

Tighten 3/8 inch oil pan-to-cylinder block screws first. Then tighten 1/2 inch screws.

SPECIFICATIONS

Oil pan-to-cylinder block cap screws torque:	
3/8 in.	68 ± 14 N·m (50 ± 10 lb-ft)
1/2 in.	156 ± 33 N·m (115 ± 22 lb-ft)

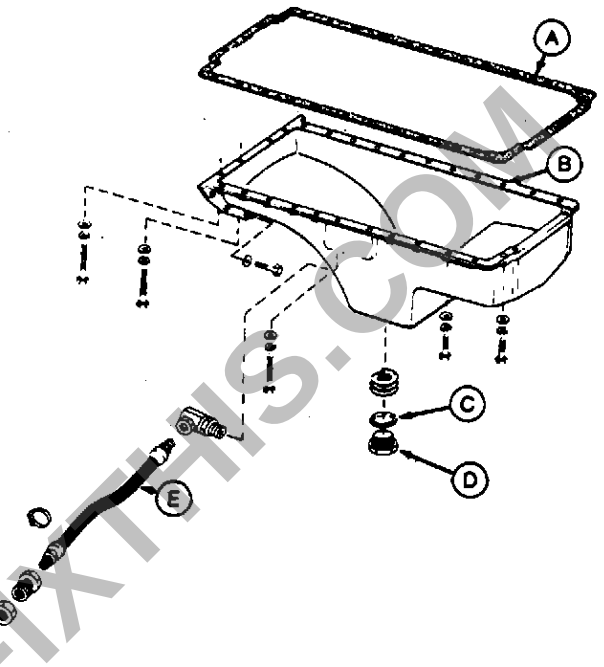
Trim pan gasket flush at rear surface of cylinder block and oil pan.

Coat threads of drain plug (D) with Flexible Sealant.

Install special aluminum washer (C) on drain plug so raised center contacts head of plug. Tighten drain plug. Install drain hose.

SPECIFICATIONS

Drain plug torque	101 ± 13 N·m (75 ± 10 lb-ft)



T6458AB -UN-02JUN89

862B Shown

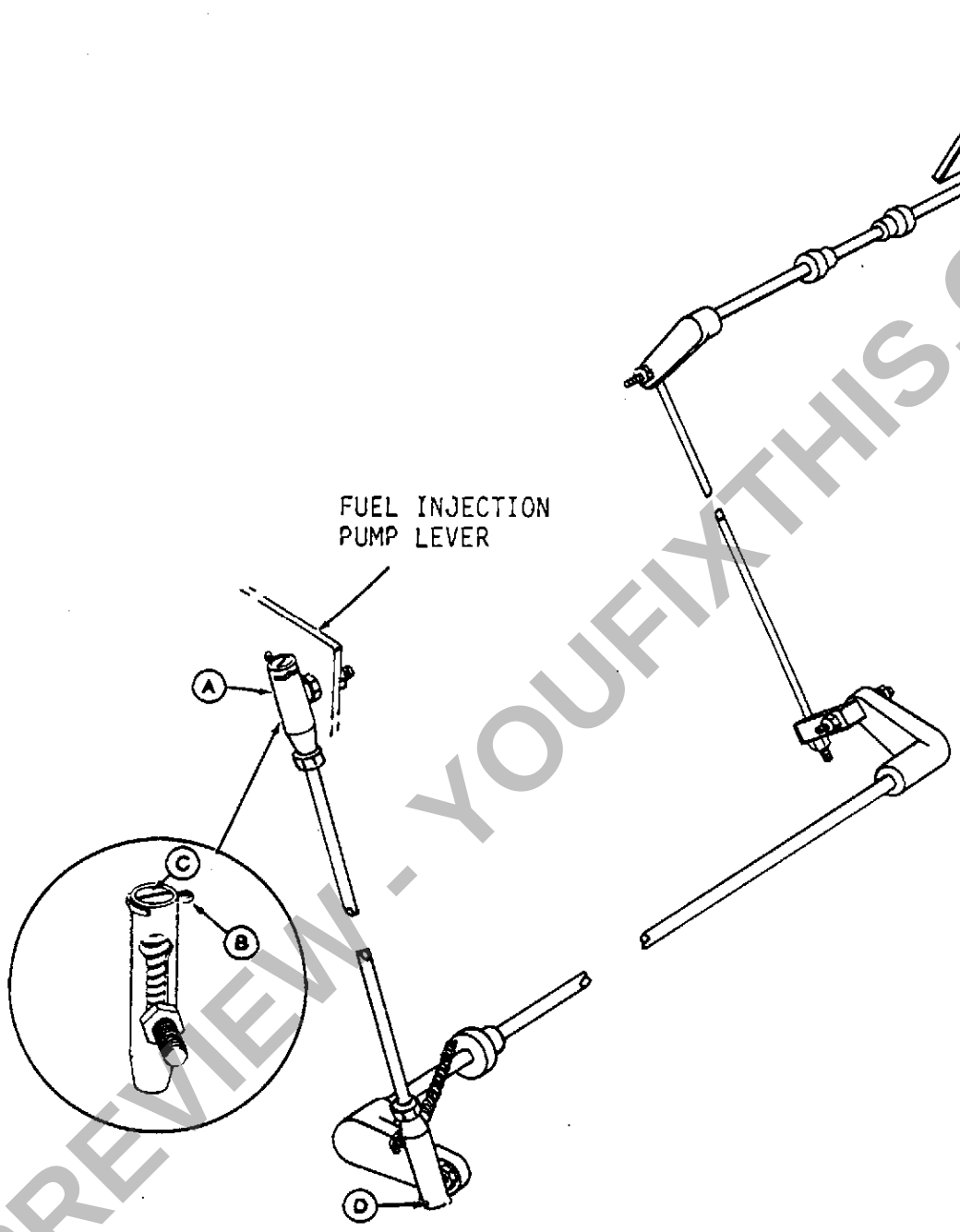
A—Gasket
B—Oil Pan
C—Aluminum Washer
D—Drain Plug
E—Drain Hose

0400 23

08T,0400,M26 -19-07SEP95

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REMOVE AND INSTALL SPEED CONTROL LINKAGE—762B



762B Earlier Machine Shown

08T,0515,C1 -19-09JAN96

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Install bearing (9) with long end into bore.

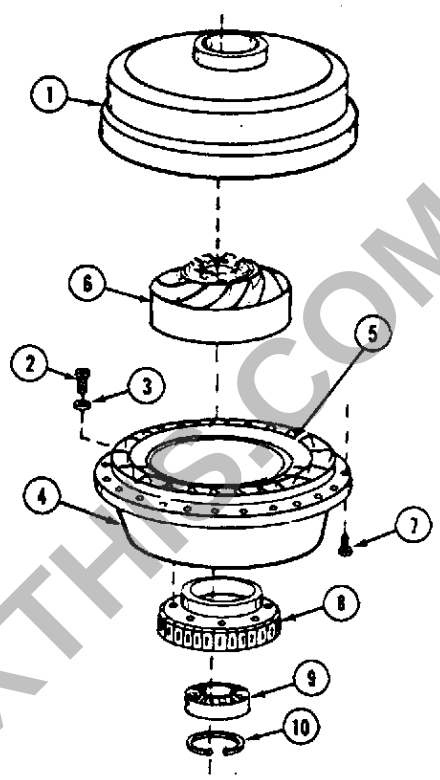
Tighten cap screws (2).

Apply medium strength thread lock and sealer to threads of cap screw (7).

SPECIFICATIONS

Cap Screw (2) . . . . . 87 N·m (64 lb-ft)
Cap Screw (7) . . . . . 30 N·m (22 lb-ft)

1—Converter Drive Housing
2—Cap Screw (6 used)
3—Washer (6 used)
4—Impeller
5—Turbine
6—Stator
7—Cap Screw
8—Accessory Drive Gear
9—Bearing
10—Snap Ring



T6446AD -UN-19MAY89

T50,0651,K14 -19-06JAN87

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REMOVE AND INSTALL STEERING VALVE—762B

CAUTION: Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. Do not use your hand.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.

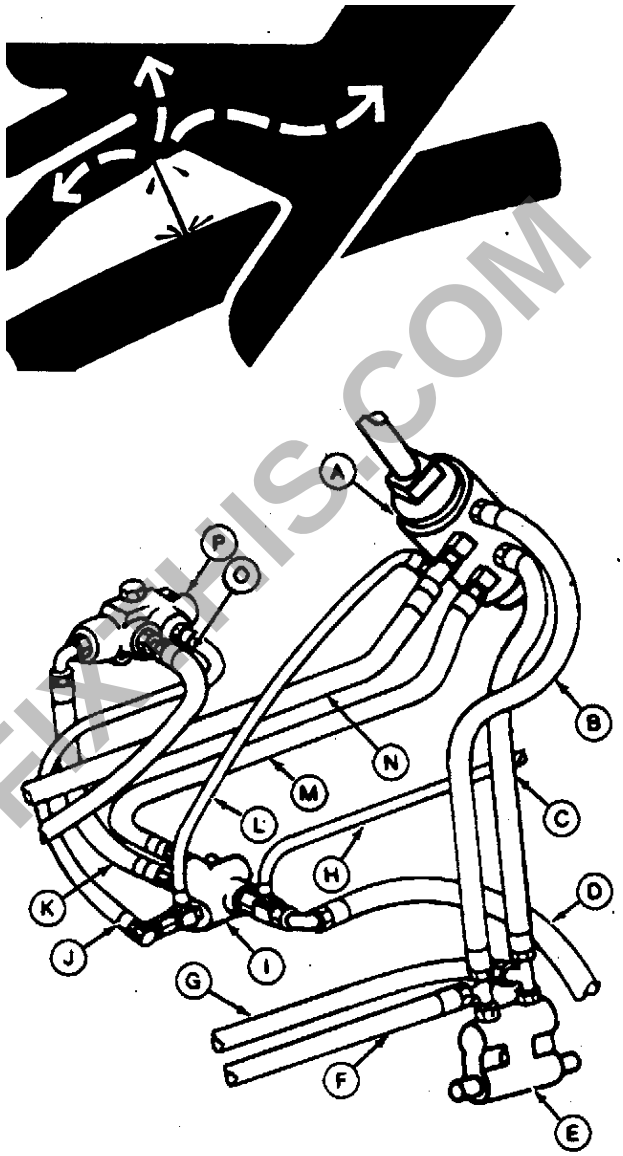
Disconnect oil lines (B, C, L, M and N).

Remove and repair valve.

Apply John Deere NEVER-SEEZ® to splines of steering shaft and steering valve.

Install valve.

Connect oil lines.



X9811 -UN-23AUG88

T6459AM -UN-18NOV89

A—Steering Valve
B—From Cushion Valve
C—From Cushion Valve
D—From Main Hydraulic Pump
E—Cushion Valve
F—To Steering Cylinders
G—To Steering Cylinders
H—To Accumulator
I—Steering Priority Valve
J—Drain Line
K—To Brake Priority Valve
L—To Steering Valve (Pilot Pressure)
M—From Steering Priority Valve
N—To Hydraulic Filter
O—To Bowl Control Valve
P—Brake Priority Valve

09T,0960,K17 -19-06JAN96

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REMOVE AND INSTALL TRANSMISSION CONTROL VALVE SOLENOIDS

1. Disconnect battery ground strap.

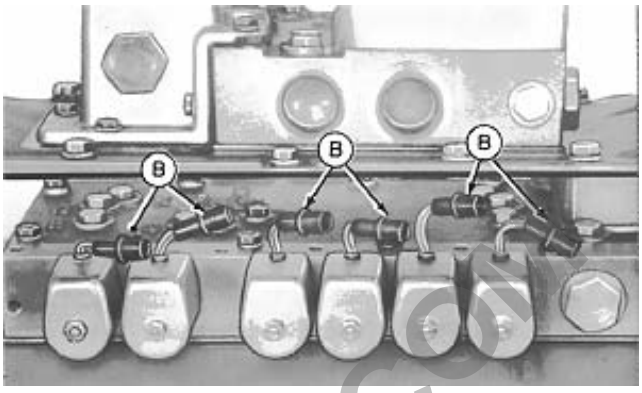
2. Remove solenoid valve cover.

3. Disconnect appropriate lead (B) at harness connector.

4. Remove nut from end of solenoid. Pull coil off tube assembly.

Solenoid coil cannot be repaired. Test as described in Group 9015-25.

5. Install solenoid and solenoid valve cover.



-UN-29MAR90
T6475AG

T52,1675,M5 -19-11SEP95

REMOVE AND INSTALL TRANSMISSION HOLD AND DOWN-SHIFT SWITCHES

1. Disconnect battery ground strap.

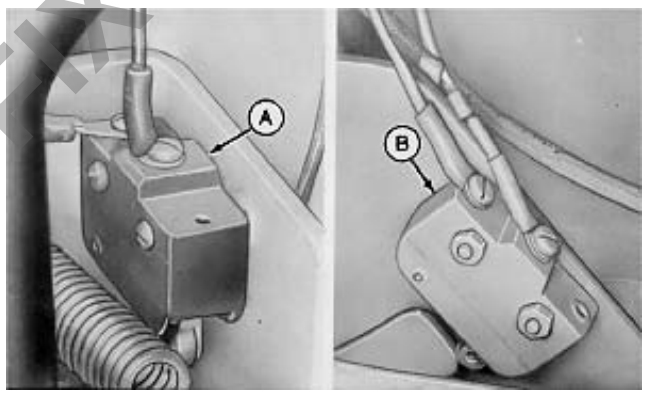
2. Remove lead from switch. Remove switch.

Switches cannot be repaired. Test as described in Group 9015-25.

3. Install switch.

4. Adjust down-shift switch (B) position so it closes when engine slows to 1200 ± 50 rpm (no load).

Transmission hold switch (A) must not close before 13 mm (1/2 in.) of pedal travel.



-UN-29MAR90
T6475AH

A—Transmission Hold Switch
B—Transmission Down-Shift Switch

T52,1675,M6 -19-11SEP95

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Coat new seal assembly with clean compressor oil.

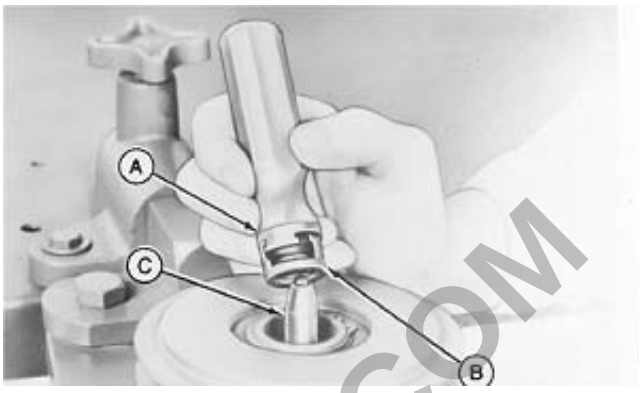
Install new shaft seal assembly.

Make sure that seal is properly positioned by having the flats of seal assembly aligned with flats on compressor shaft.

Turn AC-415 Tool (A) to release it from seal.

Install seal seat snap ring with flat side against seal seat. Make sure snap ring is in groove.

A—Installation Tool (AC-415)
B—Seal Assembly
C—Seal Protector (D-05285ST)



-UN-29MAR90
T6479AC

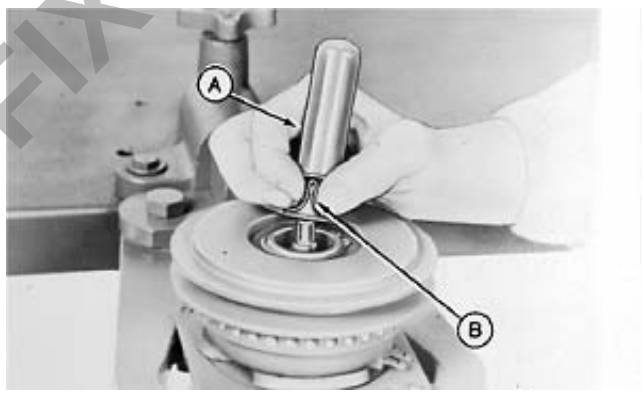
T52,1830,K39 -19-11SEP95

Coat O-ring with clean compressor oil.

Install new O-ring.

Pull O-ring tight and hold against tool. Push down firmly with a jiggling motion to allow O-ring to seat.

A—Tool (AC-460)
B—O-Ring



-UN-30MAR90
T6472AT

T52,1830,K40 -19-19FEB87

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1830
19

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CAUTION: Approximate weight of ejector gate is 620 kg (1367 lb). Use a minimum capacity 1800 kg (4000 lb) hoist to remove gate.



T6478AG -UN-29MAR90

Attach lifting brackets (A) to ejector gate. Connect ejector gate to an overhead hoist.

Lift gate just enough to take weight off rollers.

Pull gate forward to free rear rollers. Carefully lift gate from bowl.

From inside of bowl measure distance between rear roller rails along complete length of roller travel. Make a mark where distance between rails is narrowest. Use this mark for adjustment after installation.

Apply John Deere NEVER-SEEZ on inside of roller bushing.

Install washers and rollers on pins. Use same number of washers as removed.

Carefully put ejector gate inside bowl. Move gate to the rear and carefully guide rear rollers into channels and front rollers onto rails.

Connect cylinder to gate.

Adjust gate clearance. (See procedure in this group.)

Tighten roller bracket cap screws to 339 N·m (250 lb-ft). Tack weld brackets to gate.

T55,3540,M16 -19-09JAN96

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Install chain using JD276-B Elevator Chain Connector Tool. Tool holds rollers on loose ends of chain. Turn hex nut to bring chain ends together.

Couple chain together over the sprocket. Grease pin before installing.

On sealed elevator chain, spread outer side bars open and install seals on inside link.

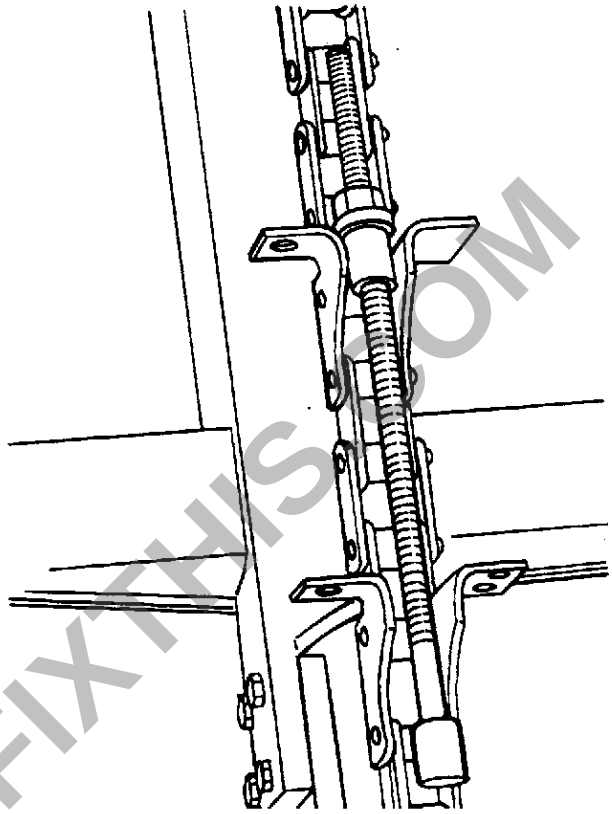
Fill cavity inside seals with grease.

IMPORTANT: Do not grind pins. Grinding destroys precision fit and causes premature failure.

NOTE: Pins have tapered ends so they can be pushed into sidebar hole far enough to enter bushing of joining link.

Note cotter pin hole and “flat” location on pin. Start pin so cotter pin hole and “flat” are in right position after pin is installed.

IMPORTANT: Hit pins squarely and firmly to avoid riveting pins.



T6480AL -UN-20APR89

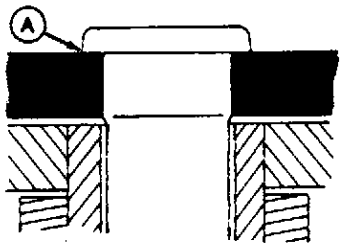
T55,3612,K5 -19-25MAY94

Drive pin until shoulder under head (A) hits sidebar.

Check opposite end of pin to be sure cotter pin hole is clear on opposite sidebar, or if pin is so far through that chain binds. Hit tapered end to relieve binding.

NOTE: Usual causes of pins difficult to drive are surface damage or misalignment. Replace damaged pins. Be sure opposite sidebar holes line up.

Check sprockets for wear or broken teeth and sprocket-chain misalignment. Do not run new chain over worn sprocket teeth as this shortens chain life.



T6480AM -UN-20APR89

T55,3612,K6 -19-04FEB87

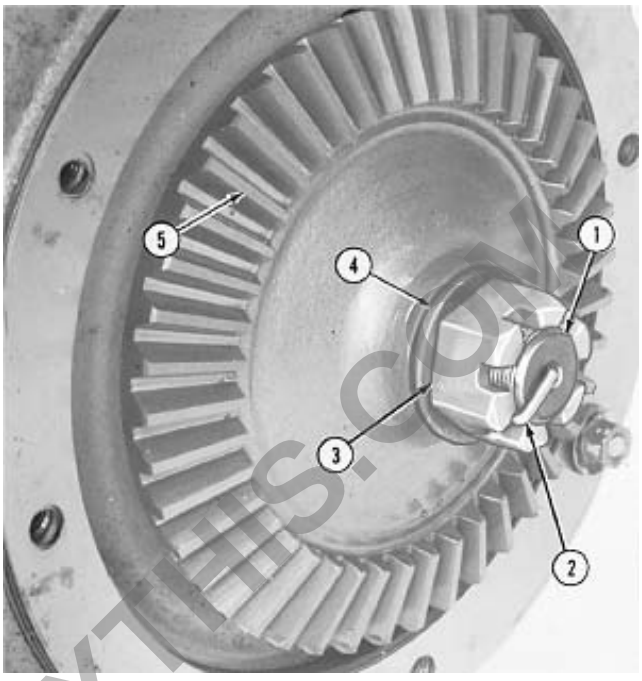
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DISASSEMBLE AND ASSEMBLE ELEVATOR GEARBOX PINION SHAFT—762B

Separate gearbox from drive case. (See Disassemble and Assemble Drive Case in this group.)

Remove parts (1—5).

1—Pinion Shaft
2—Cotter Pin
3—Nut
4—Washer
5—Bevel Gear



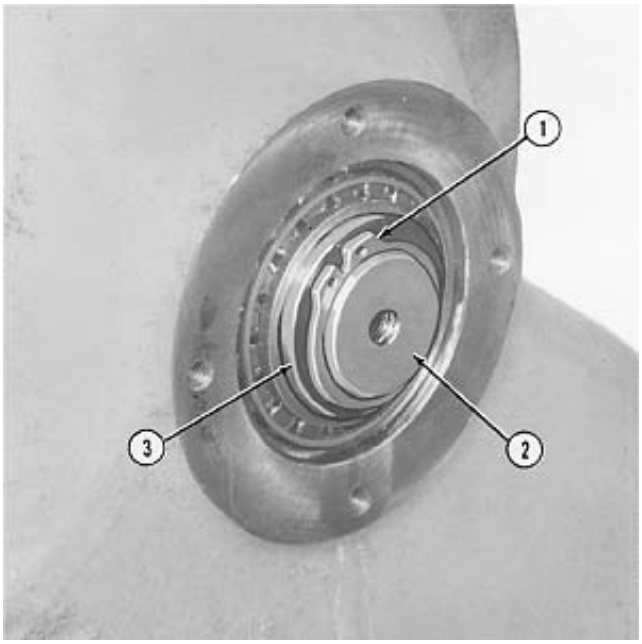
T6490AB -UN-02APR90

T55,3650,K24 -19-12SEP95

Remove snap ring (1) and washer (3) to remove pinion shaft and bearing.

Use a soft-face hammer to drive shaft out of bearing.

1—Snap Ring
2—Pinion Shaft
3—Washer



T73534 -UN-23MAR90

T55,3650,K25 -19-27JAN87

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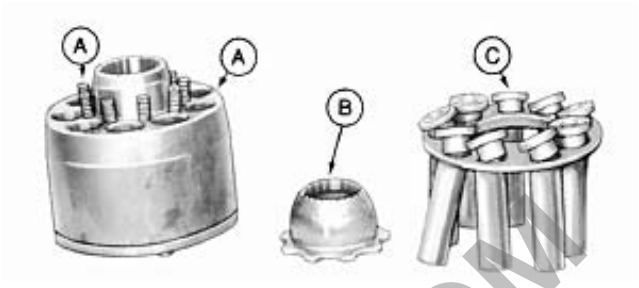
If pistons do not come out with cylinder block (A), remove as follows:

Remove ball guide (B) by aligning missing tooth in guide with missing tooth on shaft.

Remove piston assembly (nine pistons) (C) with retainer. Protect face surface of slippers. Wrap piston assembly in clean paper.

IMPORTANT: Protect surface of thrust plate after removal by wrapping in clean paper.

If necessary, remove thrust plate from swash plate.

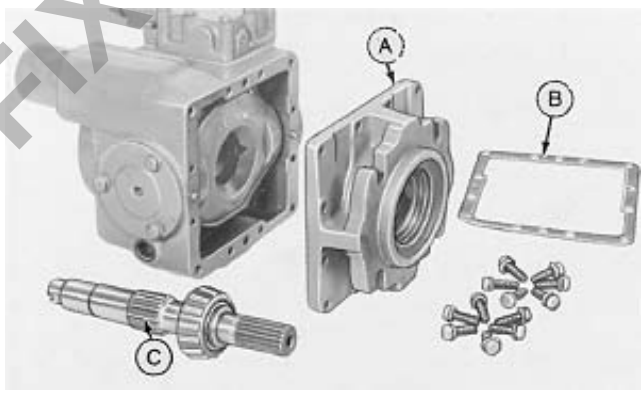


E19836 -UN-21SEP88

09T,3660,M20 -19-22JAN87

Remove front cover (A), gasket (B), and shaft (C) from front cover.

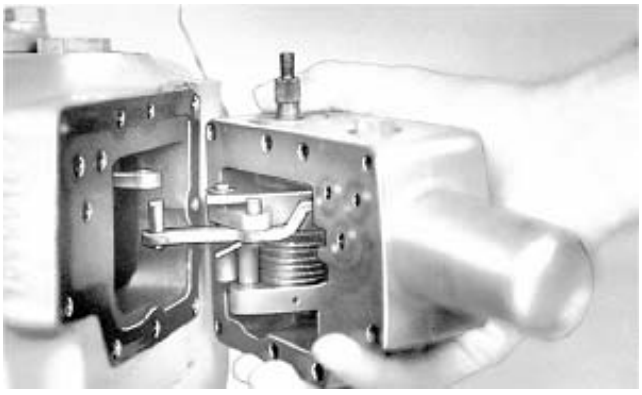
NOTE: In most cases, it will not be necessary to disassemble pump any further. However, remaining disassembly procedure should be used if it is necessary to disassemble servo cylinders, control valve, or swash plate.



N27811NY -UN-29SEP88

09T,3660,M21 -19-30JAN87

Slide pin all the way out of swash plate link and remove valve.



E19837 -UN-21SEP88

09T,3660,M22 -19-22JAN87

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Remove and Install 0360-8
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