

**762B Scraper  
(S.N. —791763)  
862B Scraper  
(S.N. —793082)  
Repair**

For complete service information also see:

762B and 862B Scrapers	
Operation and Tests . . . . .	TM1489
Fuel Injection Equipment—	
Robert Bosch . . . . .	TM1215
6466 Engine . . . . .	CTM1
6619 Engine . . . . .	CTM9
Radial Piston Pumps . . . . .	CTM7
Alternators and Starting Motors . . . . .	CTM77

**John Deere Dubuque Works  
TM1490 (09FEB99)**

LITHO IN U.S.A.  
ENGLISH

762B (S.N. —791763)  
862B (S.N. —793082)  
Scrapers Repair

TM1490 (09FEB99)



## JOHN DEERE DEALERS

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

This manual TM1490 supercedes TM1378, 762B and 862B Scraper.

This is a complete revision for TM1378, 762B and 862B Scraper.

Binder from old manual may be saved and used with these bound manuals.

The new pages are dated (Jan-95). Listed below is a brief explanation of "WHAT" was changed and "WHY" it was changed.

This manual was revised:

1. To include repair stories for bowl, sliding floor, and ejector gate cylinders.
2. To include the updated elevator control lever and linkage. Also includes component location drawings for revised plumbing.
3. To include an electrical test for transmission controls.

TX,BC,265 -19-05JAN96

## 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.



-UN-23AUG88  
TS227

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).



-UN-23AUG88  
TS204

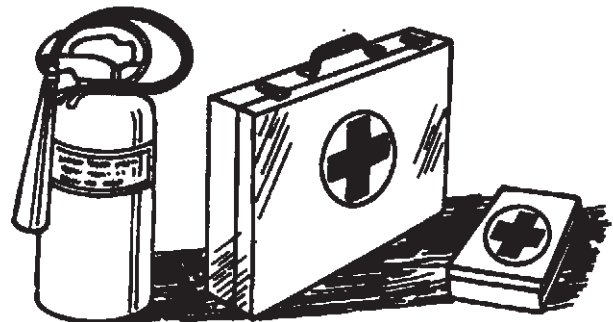
DX,SPARKS -19-03MAR93

## 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.



-UN-23AUG88  
TS291

DX,FIRE2 -19-03MAR93

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## 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:

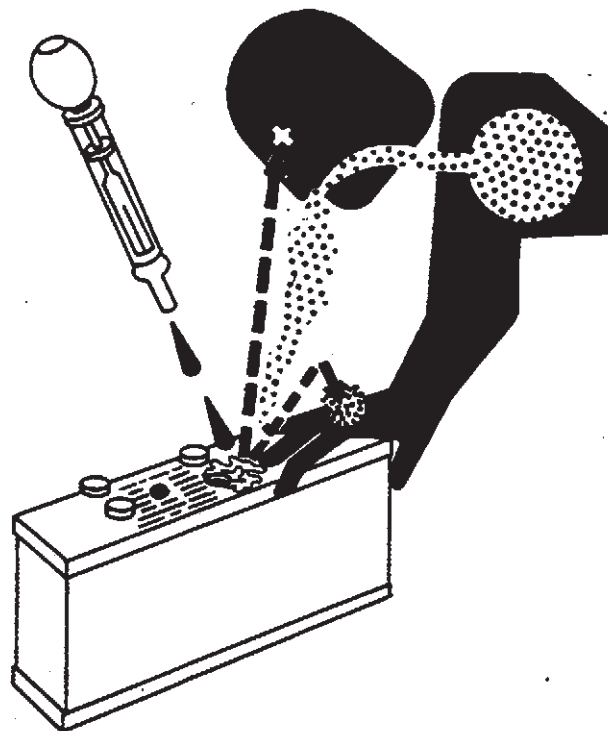
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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.



TSS203  
-UN-23AUG88

DX,POISON -19-21APR93

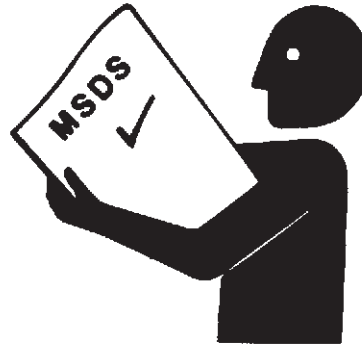
## HANDLE CHEMICAL PRODUCTS SAFELY

Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with your machine 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 authorized dealer for MSDS's on chemical products used with your machine.



TX,05,DH2500 -19-02OCT92

## 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.



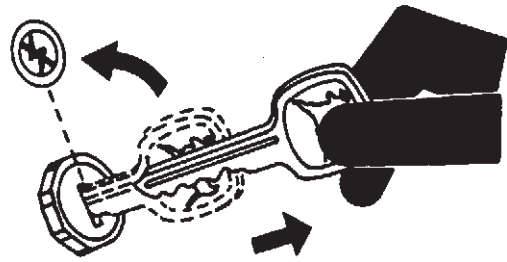
DX,FLUID -19-03MAR93

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### PARK MACHINE SAFELY

Before working on the machine:

- Lower all equipment to the ground.
- Stop the engine and remove the key.
- Disconnect the battery ground strap.
- Hang a "DO NOT OPERATE" tag in operator station.



DX,PARK -19-04JUN90

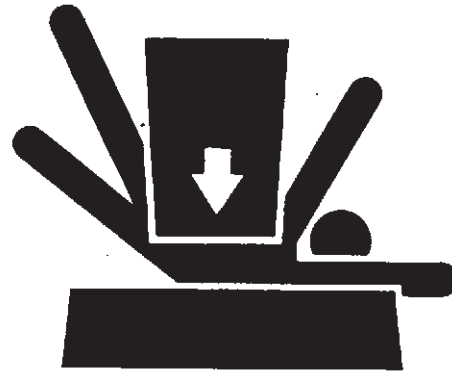
TS230 -UN-24MAY89

### SUPPORT MACHINE PROPERLY

Always lower the attachment or implement to the ground before you work on the machine. If you must work on a lifted machine or attachment, securely support the machine or attachment. If left in a raised position, hydraulically supported devices can settle or leak down.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.

When implements or attachments are used with a tractor, always follow safety precautions listed in the implement operator's manual.



DX,LOWER -19-04FEB99

TS229 -UN-23AUG88

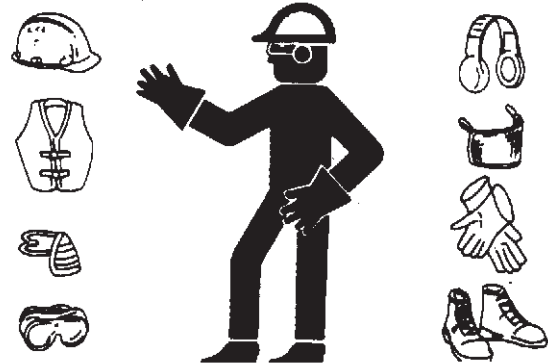
### WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.



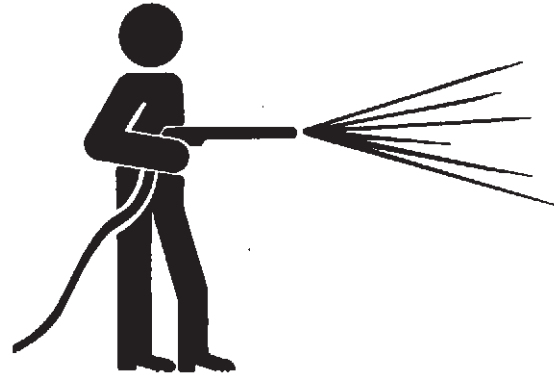
DX,WEAR -19-10SEP90

TS206 -UN-23AUG88

## WORK IN CLEAN AREA

Before starting a job:

- Clean work area and machine.
- Make sure you have all necessary tools to do your job.
- Have the right parts on hand.
- Read all instructions thoroughly; do not attempt shortcuts.



DX,CLEAN -19-04JUN90

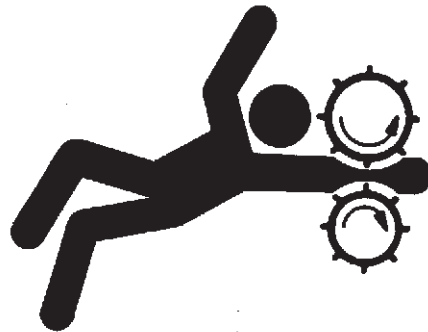
T6642EJ -UN-18OCT88

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## SERVICE MACHINES SAFELY

Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing, or necklace when you work near machine tools or moving parts. If these items were to get caught, severe injury could result.

Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



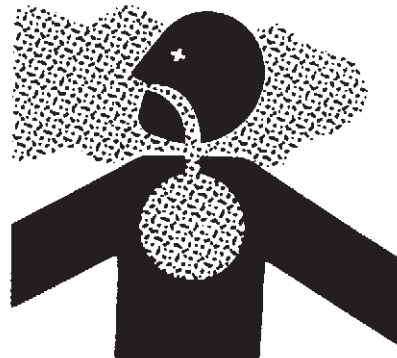
DX,LOOSE -19-04JUN90

TS228 -UN-23AUG88

## WORK IN VENTILATED AREA

Engine exhaust fumes can cause sickness or death. If it is necessary to run an engine in an enclosed area, remove the exhaust fumes from the area with an exhaust pipe extension.

If you do not have an exhaust pipe extension, open the doors and get outside air into the area.



DX,AIR -19-04JUN90

TS220 -UN-23AUG88

## ILLUMINATE WORK AREA SAFELY

Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



DX,LIGHT -19-04JUN90

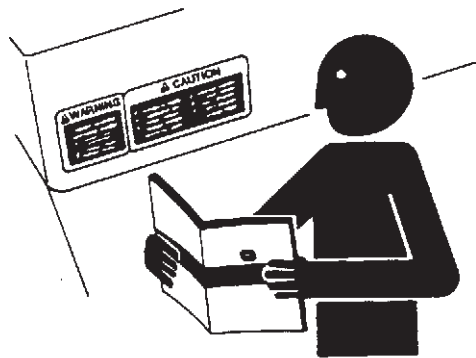
TS223 -UN-23AUG88



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## REPLACE SAFETY SIGNS

Replace missing or damaged safety signs. See the machine operator's manual for correct safety sign placement.



DX,SIGNS1 -19-04JUN90

TS201 -UN-23AUG88

## USE PROPER LIFTING EQUIPMENT

Lifting heavy components incorrectly can cause severe injury or machine damage.

Follow recommended procedure for removal and installation of components in the manual.



DX,LIFT -19-04JUN90

TS226 -UN-23AUG88

## REMOVE PAINT BEFORE WELDING OR HEATING

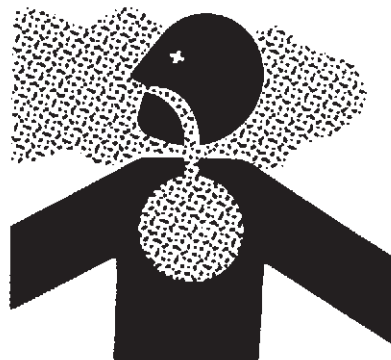
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



DX,PAINT -19-03MAR93

TS220 -UN-23AUG88

## AVOID HEATING NEAR PRESSURIZED FLUID LINES

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area.



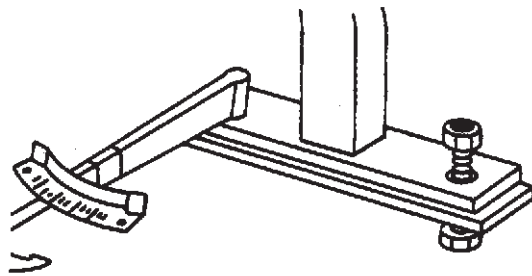
DX,TORCH -19-03MAR93

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7  
-UN-15MAY90  
TS953

## KEEP ROPS INSTALLED PROPERLY

Make certain all parts are reinstalled correctly if the roll-over protective structure (ROPS) is loosened or removed for any reason. Tighten mounting bolts to proper torque.

The protection offered by ROPS will be impaired if ROPS is subjected to structural damage, is involved in an overturn incident, or is in any way altered by welding, bending, drilling, or cutting. A damaged ROPS should be replaced, not reused.



DX,ROPS3 -19-03MAR93

-UN-23AUG88  
TS212

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## SERVICE TIRES SAFELY

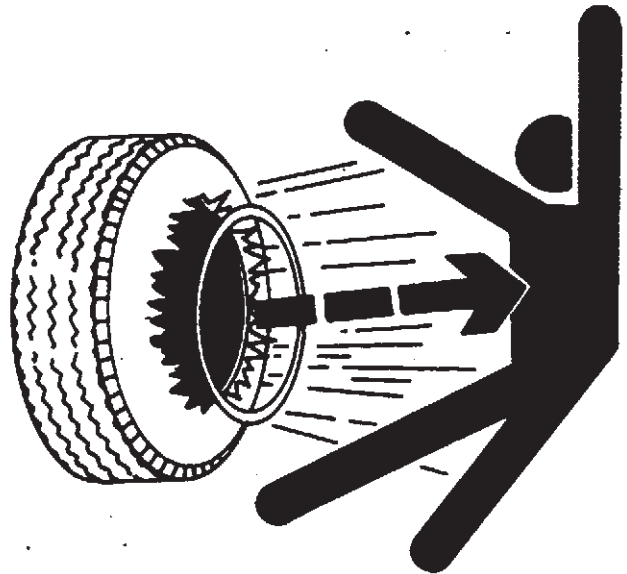
Explosive separation of a tire and rim parts can cause serious injury or death.

Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.



-UN-23AUG88

TS211

DX,RIM -19-24AUG90

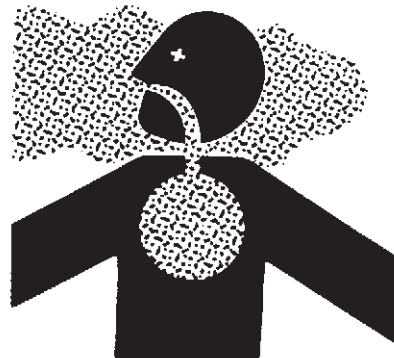
## AVOID HARMFUL ASBESTOS DUST

Avoid breathing dust that may be generated when handling components containing asbestos fibers. Inhaled asbestos fibers may cause lung cancer.

Components in products that may contain asbestos fibers are brake pads, brake band and lining assemblies, clutch plates, and some gaskets. The asbestos used in these components is usually found in a resin or sealed in some way. Normal handling is not hazardous as long as airborne dust containing asbestos is not generated.

Avoid creating dust. Never use compressed air for cleaning. Avoid brushing or grinding material containing asbestos. When servicing, wear an approved respirator. A special vacuum cleaner is recommended to clean asbestos. If not available, apply a mist of oil or water on the material containing asbestos.

Keep bystanders away from the area.



-UN-23AUG88

TS220

DX,DUST -19-15MAR91

## PRACTICE SAFE MAINTENANCE

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.



DX,SERV -19-04FEB99

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-UN-23AUG88

TSS218

## USE PROPER TOOLS

Use tools appropriate to the work. Makeshift tools and procedures can create safety hazards.

Use power tools only to loosen threaded parts and fasteners.

For loosening and tightening hardware, use the correct size tools. DO NOT use U.S. measurement tools on metric fasteners. Avoid bodily injury caused by slipping wrenches.

Use only service parts meeting John Deere specifications.



DX,REPAIR -19-04JUN90

-UN-08NOV89

TSS779

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## DISPOSE OF WASTE PROPERLY

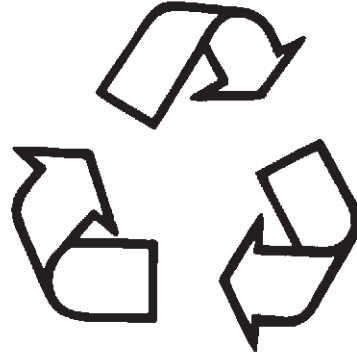
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with your machine include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain, or into any water source.

Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.

Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center, or from your authorized dealer.



TS1133 -JUN-26NOV90

TX,05,DH2502 -19-26AUG92

## LIVE WITH SAFETY

Before returning machine to customer, make sure machine is functioning properly, especially the safety systems. Install all guards and shields.

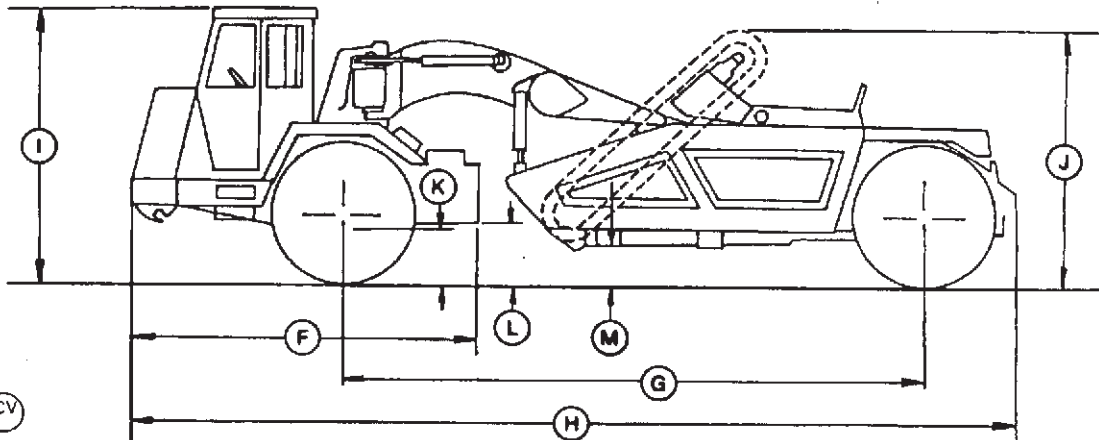
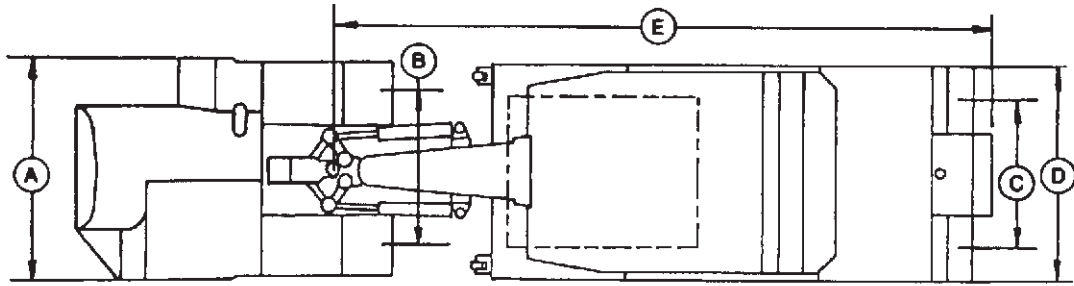


TS231 -19-07OCT88

DX,LIVE -19-15APR98

762B

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T7242AL (CV)

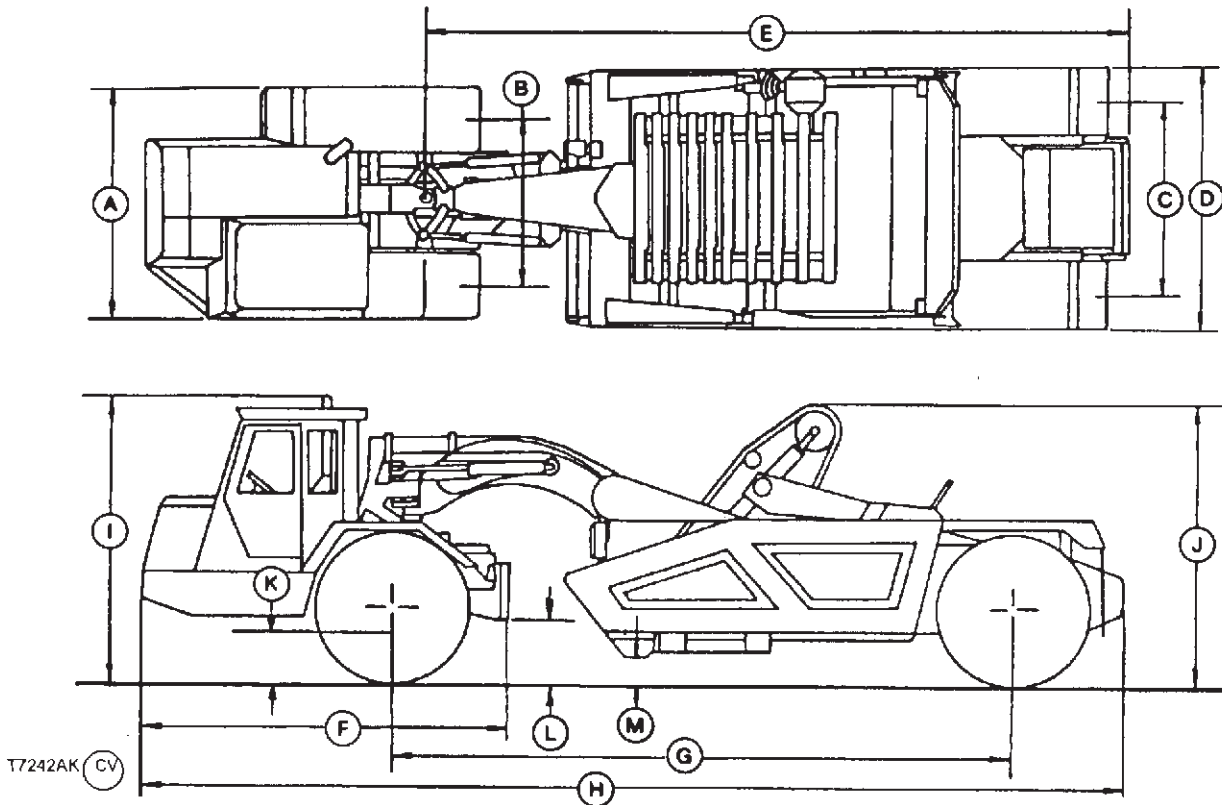
T7242AL -UN-22MAR90

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

862B (SERIAL NO. —780016)

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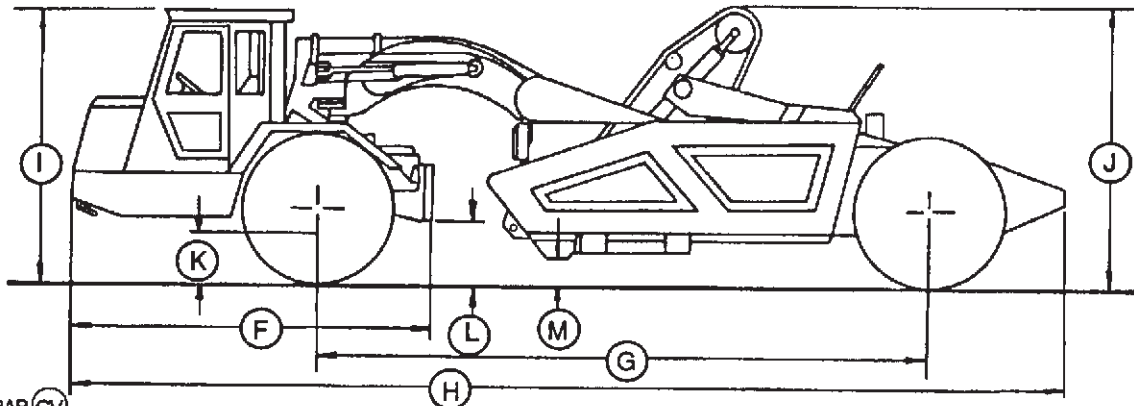
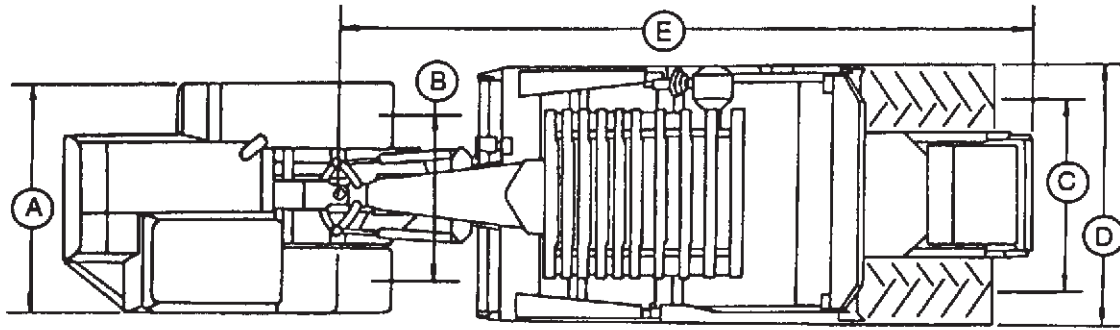


T7242AK -JUN-22/MAR90

Key	Bowl At Ground Level	Bowl Up	Bowl Level
A	2.64 m . . . . . (8 ft 8 in.)	2.64 m . . . . . (8 ft 8 in.)	2.64 m . . . . . (8 ft 8 in.)
B	1.96 m . . . . . (6 ft 5 in.)	1.96 m . . . . . (6 ft 5 in.)	1.96 m . . . . . (6 ft 5 in.)
C	2.12 m . . . . . (6 ft 11.3 in.)	2.12 m . . . . . (6 ft 11.3 in.)	2.12 m . . . . . (6 ft 11.3 in.)
D	2.9 m . . . . . (9 ft 6 in.)	2.9 m . . . . . (9 ft 6 in.)	2.9 m . . . . . (9 ft 6 in.)
E	7.85 m . . . . . (25 ft 8.9 in.)	7.85 m . . . . . (25 ft 8.9 in.)	7.85 m . . . . . (25 ft 8.9 in.)
F	4.34 m . . . . . (14 ft 3 in.)	4.34 m . . . . . (14 ft 3 in.)	4.34 m . . . . . (14 ft 3 in.)
G	6.99 m . . . . . (22 ft 11 in.)	6.78 m . . . . . (22 ft 3 in.)	6.93 m . . . . . (22 ft 9 in.)
H	11.2 m . . . . . (36 ft 10.9 in.)	11.0 m . . . . . (36 ft 2.9 in.)	11.2 m . . . . . (36 ft 8.9 in.)
I	3.07 m . . . . . (10 ft 1 in.)	3.02 m . . . . . (9 ft 11 in.)	3.03 m . . . . . (9 ft 11.5 in.)
J	3.12 m . . . . . (10 ft 3 in.)	3.34 m . . . . . (10 ft 11.4 in.)	3.18 m . . . . . (10 ft 5 in.)
K	495 mm . . . . . (19.5 in.)	495 mm . . . . . (19.5 in.)	495 mm . . . . . (19.5 in.)
L	523 mm . . . . . (20.6 in.)	645 mm . . . . . (25.4 in.)	597 mm . . . . . (23.5 in.)
M: Without Teeth		485 mm . . . . . (19 in.)	178 mm . . . . . (7 in.)
With Teeth		406 mm . . . . . (16 in.)	102 mm . . . . . (4 in.)
Cut below ground level without teeth			229 mm (9 in.)
Cut below ground level with teeth			302 mm (11.9 in.)

TX,115,FF3682 -19-19NOV93

862B (SERIAL NO. 780017—791763)



T7598AB CV

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T7598AB -JUN-26SEP91

Key	Bowl At Ground Level		Bowl Up		Bowl Level	
A	2.64 m	(8 ft 8 in.)	2.64 m	(8 ft 8 in.)	2.64 m	(8 ft 8 in.)
B	1.96 m	(6 ft 5 in.)	1.96 m	(6 ft 5 in.)	1.96 m	(6 ft 5 in.)
C	2.12 m	(6 ft 11 in.)	2.12 m	(6 ft 11 in.)	2.12 m	(6 ft 11 in.)
D	3.09 m	(10 ft 1.5 in.)	3.09 m	(10 ft 1.5 in.)	3.09 m	(10 ft 1.5 in.)
E	7.85 m	(25 ft 9 in.)	7.85 m	(25 ft 9 in.)	7.85 m	(25 ft 9 in.)
F	4.34 m	(14 ft 3 in.)	4.34 m	(14 ft 3 in.)	4.34 m	(14 ft 3 in.)
G	7.11 m	(23 ft 3 in.)	6.84 m	(22 ft 4 in.)	6.98 m	(22 ft 10 in.)
H	11.31 m	(37 ft 1 in.)	11.10 m	(36 ft 4 in.)	11.20 m	(36 ft 9 in.)
I	3.28 m	(10 ft 8 in.)	3.19 m	(10 ft 5 in.)	3.21 m	(10 ft 6 in.)
J	3.15 m	(10 ft 4 in.)	3.46 m	(11 ft 4 in.)	3.31 m	(10 ft 9 in.)
K	545 mm	(21.5 in.)	540 mm	(21.3 in.)	540 mm	(21.3 in.)
L	585 mm	(23.0 in.)	720 mm	(28.3 in.)	665 mm	(26.1 in.)
M: Without Teeth			485 mm	(19 in.)	178 mm	(7 in.)
With Teeth			406 mm	(16 in.)	102 mm	(4 in.)
Cut below ground level without teeth					229 mm	(9 in.)
Cut below ground level with teeth					302 mm	(11.9 in.)

TX,115,FF3683 -19-19NOV93



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### 762B DRAIN AND REFILL CAPACITIES

	<b>Metric</b>	<b>U.S.</b>
Cooling system . . . . .	34 L . . . . .	9 gal
Fuel tank . . . . .	273 L . . . . .	72 gal
Engine oil with filter change . . . . .	23.7 L . . . . .	6.25 gal
Transmission oil with filter change . . . . .	49 L . . . . .	13 gal
Drive axle oil with filter change . . . . .	21.8 L . . . . .	5.8 gal
Hydraulic oil with hydraulic and elevator filters change . . . . .	45.4 L . . . . .	12 gal
Elevator gearbox oil . . . . .	12.6 L . . . . .	3.3 gal









TX,115,FF3681 -19-19NOV93

### 862B DRAIN AND REFILL CAPACITIES

	<b>Metric</b>	<b>U.S.</b>
Cooling system . . . . .	49 L . . . . .	13 gal
Fuel tank . . . . .	416 L . . . . .	110 gal
Engine oil with filter change . . . . .	34 L . . . . .	9 gal
Transmission oil with filter change . . . . .	71 L . . . . .	19 gal
Drive axle oil with filter change . . . . .	28.4 L . . . . .	7.5 gal
Hydraulic oil with hydraulic and elevator filters change . . . . .	90 L . . . . .	24 gal
Elevator gearbox oil . . . . .	9.0 L . . . . .	9.5 qt

TX,115,FF3684 -19-19NOV93

**UNIFIED INCH BOLT AND CAP SCREW TORQUE VALUES**

<b>SAE Grade and Head Markings</b>	NO MARK	1 or 2 <sup>b</sup> 	5    5.1    5.2 	8    8.2 
<b>SAE Grade and Nut Markings</b>	NO MARK	2 	5  	8  

Size	Grade 1				Grade 2 <sup>b</sup>				Grade 5, 5.1, or 5.2				Grade 8 or 8.2			
	Lubricated <sup>a</sup>		Dry <sup>a</sup>		Lubricated <sup>a</sup>		Dry <sup>a</sup>		Lubricated <sup>a</sup>		Dry <sup>a</sup>		Lubricated <sup>a</sup>		Dry <sup>a</sup>	
	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.

<sup>a</sup> "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.

<sup>b</sup> 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.

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.

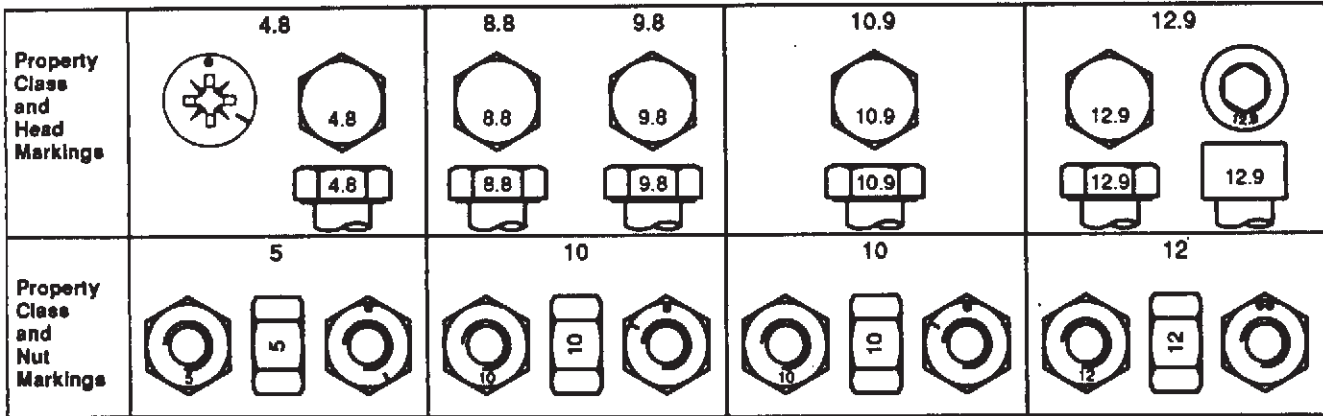
Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

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.

**METRIC BOLT AND CAP SCREW TORQUE VALUES**

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TS1163 -19-04/MAR91



Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Lubricated <sup>a</sup>		Dry <sup>a</sup>		Lubricated <sup>a</sup>		Dry <sup>a</sup>		Lubricated <sup>a</sup>		Dry <sup>a</sup>		Lubricated <sup>a</sup>		Dry <sup>a</sup>	
	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
M6	4.8	3.5	6	4.5	9	6.5	11	8.5	13	9.5	17	12	15	11.5	19	14.5
M8	12	8.5	15	11	22	16	28	20	32	24	40	30	37	28	47	35
M10	23	17	29	21	43	32	55	40	63	47	80	60	75	55	95	70
M12	40	29	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	47	80	60	120	88	150	110	175	130	225	165	205	150	260	190
M16	100	73	125	92	190	140	240	175	275	200	350	255	320	240	400	300
M18	135	100	175	125	260	195	330	250	375	275	475	350	440	325	560	410
M20	190	140	240	180	375	275	475	350	530	400	675	500	625	460	800	580
M22	260	190	330	250	510	375	650	475	725	540	925	675	850	625	1075	800
M24	330	250	425	310	650	475	825	600	925	675	1150	850	1075	800	1350	1000
M27	490	360	625	450	950	700	1200	875	1350	1000	1700	1250	1600	1150	2000	1500
M30	675	490	850	625	1300	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000
M33	900	675	1150	850	1750	1300	2200	1650	2500	1850	3150	2350	2900	2150	3700	2750
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2750	4750	3500

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.

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

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

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.

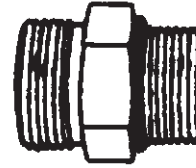
Fasteners should be replaced with the same or higher property class. If higher property class fasteners are used, these should only be tightened to the strength of the original.

<sup>a</sup> "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.

## SERVICE RECOMMENDATIONS FOR O-RING BOSS FITTINGS

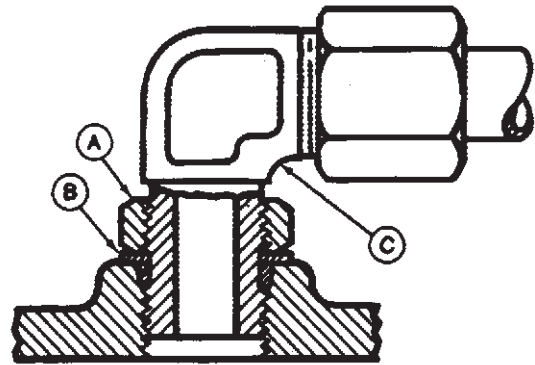
### STRAIGHT FITTING

1. Inspect O-ring boss seat for dirt or defects.
2. Lubricate O-ring with petroleum jelly. Place electrical tape over threads to protect O-ring. Slide O-ring over tape and into O-ring groove of fitting. Remove tape.
3. Tighten fitting to torque value shown on chart.



### ANGLE FITTING

1. Back-off lock nut (A) and back-up washer (B) completely to head-end (C) of fitting.
2. Turn fitting into threaded boss until back-up washer contacts face of boss.
3. Turn fitting head-end counterclockwise to proper index (maximum of one turn).



*NOTE: Do not allow hoses to twist when tightening fittings.*

4. Hold fitting head-end with a wrench and tighten locknut and back-up washer to proper torque value.

#### STRAIGHT FITTING OR SPECIAL NUT TORQUE CHART

Thread Size	N-m	lb-ft
3/8-24 UNF	8	6
7/16-20 UNF	12	9
1/2-20 UNF	16	12
9/16-18 UNF	24	18
3/4-16 UNF	46	34
7/8-14 UNF	62	46
1-1/16-12 UN	102	75
1-3/16-12 UN	122	90
1-5/16-12 UN	142	105
1-5/8-12 UN	190	140
1-7/8-12 UN	217	160

*NOTE: Torque tolerance is ± 10%.*

-UN-18OCT88

T6249AE

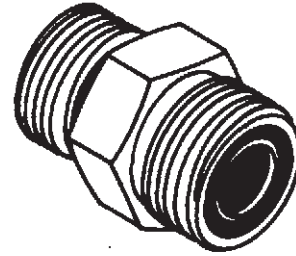
-UN-18OCT88

T6520AB

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## SERVICE RECOMMENDATIONS FOR FLAT FACE O-RING SEAL FITTINGS

1. Inspect the fitting sealing surfaces. They must be free of dirt or defects.
2. Inspect the O-ring. It must be free of damage or defects.
3. Lubricate O-rings and install into groove using petroleum jelly to hold in place.
4. Push O-ring into the groove with plenty of petroleum jelly so O-ring is not displaced during assembly.
5. Index angle fittings and tighten by hand pressing joint together to insure O-ring remains in place.
6. Tighten fitting or nut to torque value shown on the chart per dash size stamped on the fitting. Do not allow hoses to twist when tightening fittings.



T6249AD -JUN-18OCT88

### FLAT FACE O-RING SEAL FITTING TORQUE

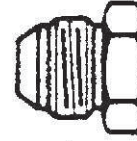
Nominal Tube O.D. mm	O.D. in.	Dash Size	Thread Size in.	Swivel Nut		Bulkhead Nut	
				N·m	lb-ft	N·m	lb-ft
6.35	0.250	-4	9/16-18	16	12	5.0	3.5
9.52	0.375	-6	11/16-16	24	18	9.0	6.5
12.70	0.500	-8	13/16-16	50	37	17.0	12.5
15.88	0.625	-10	1-14	69	51	17.0	12.5
19.05	0.750	-12	1 3/16-12	102	75	17.0	12.5
22.22	0.875	-14	1 3/16-12	102	75	17.0	12.5
25.40	1.000	-16	1 7/16-12	142	105	17.0	12.5
31.75	1.250	-20	1 11/16-12	190	140	17.0	12.5
38.10	1.500	-24	2-12	217	160	17.0	12.5

NOTE: Torque tolerance is +15 -20%.

04T,90,K67 -19-01AUG94

**SERVICE RECOMMENDATIONS FOR 37° FLARE AND 30° CONE SEAT CONNECTORS**

1. Inspect flare and flare seat. They must be free of dirt or obvious defects.
2. Defects in tube flare cannot be repaired. Overtightening a defective flared fitting will not stop leaks.
3. Align tube with fitting before attempting to start nut.
4. Lubricate male threads with hydraulic fluid or petroleum jelly.
5. Index angle fittings and tighten by hand.
6. Tighten fitting or nut to torque value shown on torque chart. Do not allow hoses to twist when tightening fittings.



**STRAIGHT FITTING OR SPECIAL NUT TORQUE CHART\***

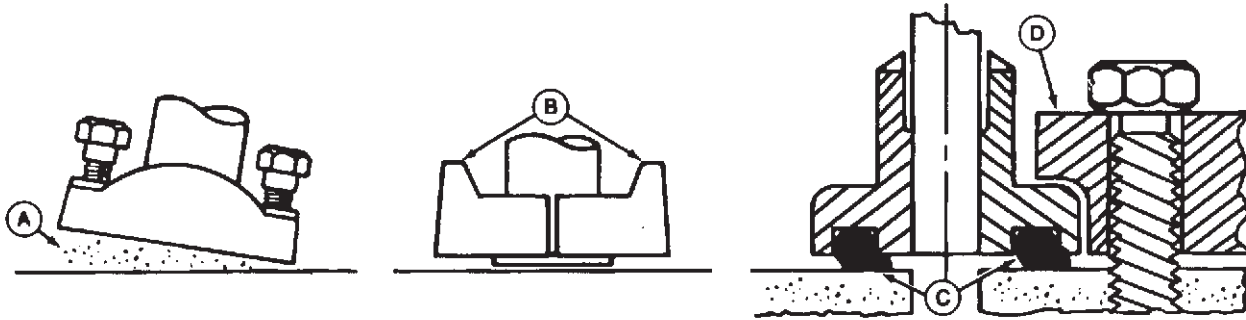
Thread Size	N·m	lb·ft
3/8-24 UNF	8	6
7/16-20 UNF	12	9
1/2-20 UNF	16	12
9/16-18 UNF	24	18
3/4-16 UNF	46	34
7/8-14 UNF	62	46
1-1/16-12 UN	102	75
1-3/16-12 UN	122	90
1-5/16-12 UN	142	105
1-5/8-12 UN	190	140
1-7/8-12 UN	217	160

\*Torque tolerance is ± 10%.

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5  
-JUN-18OCT88  
T6234AC

**SERVICE RECOMMENDATIONS FOR INCH SERIES FOUR BOLT FLANGE FITTINGS**

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**A—Sealing Surface**

**B—Split Flange**

**C—Pinched O-Ring**

**D—Single Piece Flange**

1. Clean sealing surfaces (A). Inspect. Scratches cause leaks. Roughness causes seal wear. Out-of-flat causes seal extrusion. If defects cannot be polished out, replace component.
2. Install O-ring (and backup washer if required) into groove using petroleum jelly to hold it in place.
3. Split flange: Loosely assemble split flange (B) halves. Make sure split is centrally located and perpendicular to port. Hand tighten cap screws to hold parts in place. Do not pinch O-ring (C).
4. Single piece flange (D): Place hydraulic line in center of flange and install cap screws. Flange must

be centrally located on port. Hand tighten cap screws to hold flange in place. Do not pinch O-ring.

5. Tighten one cap screw, then tighten the diagonally opposite cap screw. Tighten two remaining cap screws. Tighten all cap screws as specified in the chart below.

DO NOT use air wrenches. DO NOT tighten one cap screw fully before tightening the others. DO NOT over tighten.

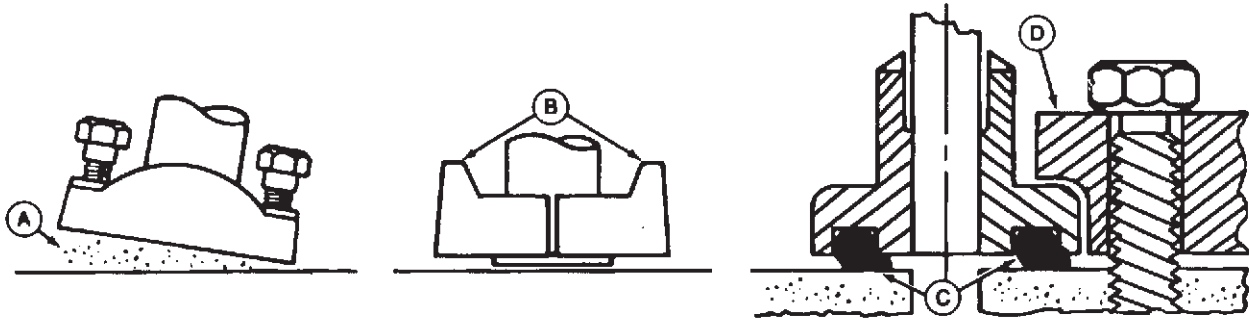
**TORQUE CHART\***

Nominal Flange Size	Cap Screw Size	N-m		lb-ft	
		Min	Max	Min	Max
1/2	5/16-18 UNC	20	31	15	23
3/4	3/8-16 UNC	28	54	21	40
1	3/8-16 UNC	37	54	27	40
1-1/4	7/16-14 UNC	47	85	35	63
1-1/2	1/2-13 UNC	62	131	46	97
2	1/2-13 UNC	73	131	54	97
2-1/2	1/2-13 UNC	107	131	79	97
3	5/8-11 UNC	158	264	117	195
3-1/2	5/8-11 UNC	158	264	117	195
4	5/8-11 UNC	158	264	117	195
5	5/8-11 UNC	158	264	117	195

\*Tolerance ± 10%. The torques given are enough for the given size connection with the recommended working pressure. Torques can be increased to the maximum shown for each cap screw size if desired. Increasing cap screw torque beyond this maximum will result in flange and cap screw bending and connection failures.

T6890EB -JUN-01MAR90

**SERVICE RECOMMENDATIONS FOR METRIC SERIES FOUR BOLT FLANGE FITTINGS**



**A—Sealing Surface**

**B—Split Flange**

**C—Pinched O-Ring**

**D—Single Piece Flange**

1. Clean sealing surfaces (A). Inspect. Scratches cause leaks. Roughness causes seal wear. Out-of-flat causes seal extrusion. If defects cannot be polished out, replace component.
2. Install the correct O-ring (and backup washer if required) into groove using petroleum jelly to hold it in place.
3. Split flange: Loosely assemble split flange (B) halves. Make sure split is centrally located and perpendicular to the port. Hand tighten cap screws to hold parts in place. Do not pinch O-ring (C).
4. Single piece flange (D): Place hydraulic line in center of flange and install four cap screws. Flange must be centrally located on port. Hand tighten cap screws to hold flange in place. Do not pinch O-ring.

5. After components are properly positioned and cap screws are hand tightened, tighten one cap screw, then tighten the diagonally opposite cap screw. Tighten two remaining cap screws. Tighten all cap screws as specified in the chart below.

DO NOT use air wrenches. DO NOT tighten one cap screw fully before tightening the others. DO NOT over tighten.

**TORQUE CHART\***

Thread**	N·m	lb-ft
M6	12	9
M8	30	22
M10	57	42
M12	95	70
M14	157	116
M16	217	160
M18	334	246
M20	421	318

\*Tolerance ± 10%. The torques given are enough for the given size connection with the recommended working pressure. Increasing cap screw torque beyond these amounts will result in flange and cap screw bending and connection failures.

\*\*Metric standard thread.



0003  
8

## 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 temperatures at altitudes above 1500 m (5000 ft).

**IMPORTANT: If fuel sulfur content exceeds 0.5 per cent, change the engine oil at 1/2 the normal interval.**

**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.

TX,45,DH1089 -19-15MAR94

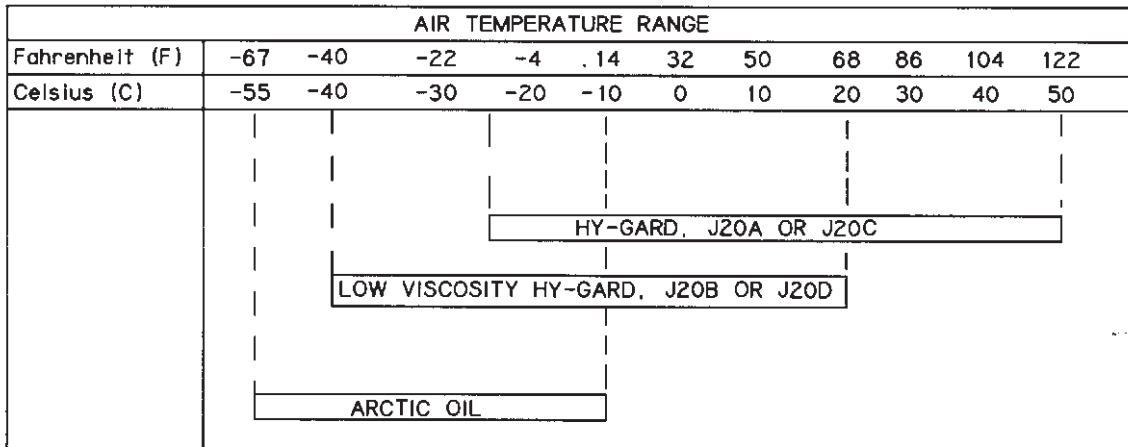
## STORING FUEL

If there is a very slow turnover of fuel in the fuel tank or supply tank, it may be necessary to add a fuel conditioner to prevent water condensation. Contact your John Deere dealer for proper service or maintenance recommendations.

DX,FUEL -19-03MAR93



**HYDRAULIC, TRANSMISSION, DRIVE AXLE, ELEVATOR GEARBOX, AND UPPER ELEVATOR CROSS SHAFT BEARINGS OILS**



T8098AD (CY)

T8098AD -19-01OCT93

Depending on the expected air temperature range between oil changes, use oil viscosity shown on the chart above.

You may also use oils that meet minimum John Deere standards, or other oils meeting John Deere Standard JDM J20A or J20C or J20B or J20D.

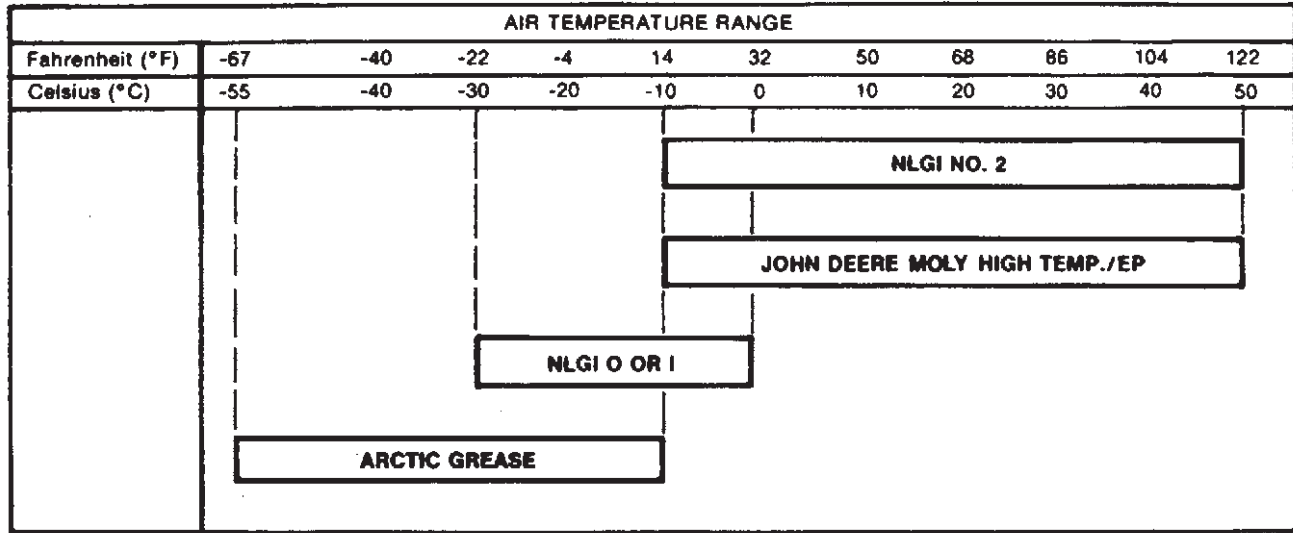
John Deere HY-GARD® transmission and hydraulic oil is recommended because it is specifically formulated to minimize brake chatter, provide optimum clutch engagement, to provide maximum protection against mechanical wear, rust, corrosion, and foaming.

Oils meeting MIL-L-46167A may be used as arctic oil.

TX,45,FF3685 -19-19NOV93

**GREASE**

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T6722AA -19-27JAN89

Depending on the expected air temperature range, use grease shown on chart above.

Greases recommended are:

- John Deere Moly High Temperature/EP Grease (Preferred)

- SAE Multipurpose Grease with Extreme Pressure (EP) performance and containing 3 to 5 per cent molybdenum disulfide

- SAE multi-purpose EP Grease

- Grease meeting MIL-G-10924C specifications may be used as arctic grease.

02T,45,C49 -19-01AUG94

**SERVICE EQUIPMENT AND TOOLS**

*NOTE: Order tools from the U.S. SERVICEGARD™ Catalog or from the European Microfiche Tool Catalog (MTC). Some tools may be available from a local supplier.*

Name	Use
Heavy Duty Wheel Lift	To remove and install wheels.
Shop Stand	To support the machine while removing wheels.

T47,0110,K529 -19-05SEP95

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1

**SPECIFICATIONS**

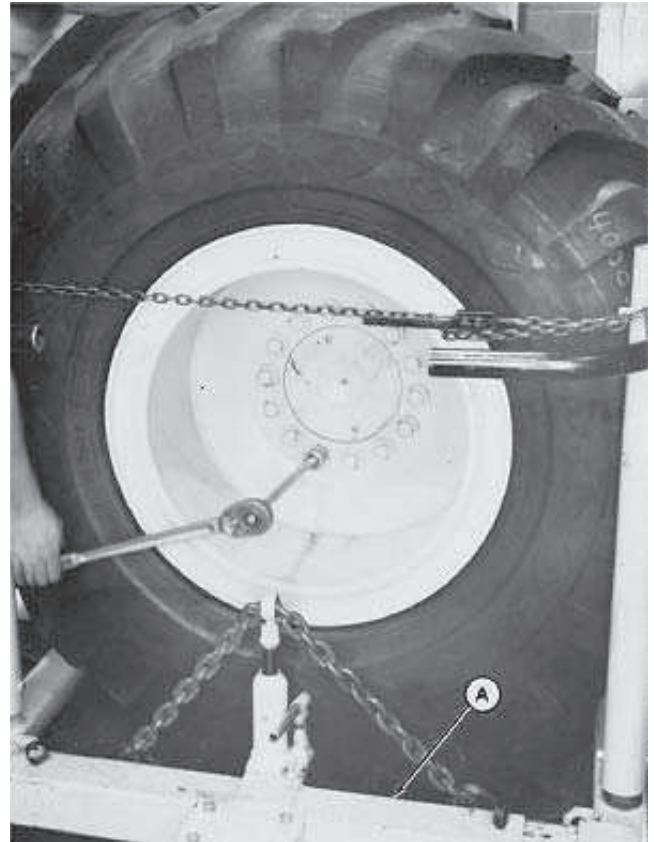
Item	Measurement	Specification
Wheel Cap Screws . . . . .	Torque . . . . .	542 N·m (400 lb-ft)
Wheel . . . . .	Weight . . . . .	795 kg (1750 lb)
Tire . . . . .	Weight . . . . .	450 kg (1000 lb)
23.5 x 25 . . . . .	Inflation . . . . .	380 kPa (3.8 bar) (55 psi)
26.5 x 25 22 PR E2 . . . . .	Inflation . . . . .	276 kPa (2.8 bar) (40 psi)
26.5 x 25 (All others) . . . . .	Inflation . . . . .	380 kPa (3.8 bar) (55 psi)
26.5 x 29 . . . . .	Inflation . . . . .	350 kPa (3.5 bar) (50 psi)
29.5 x 25 (Radials) . . . . .	Inflation . . . . .	310 kPa (3.1 bar) (45 psi)

T47,0110,K2 -19-05SEP95

## REMOVE AND INSTALL WHEEL

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

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.



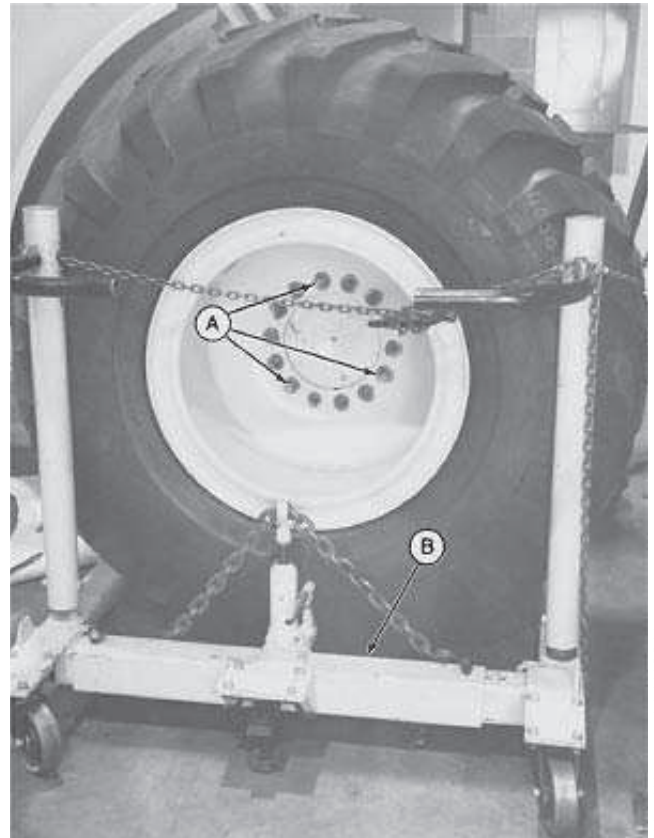
T6144AU -UN-09APR90

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.

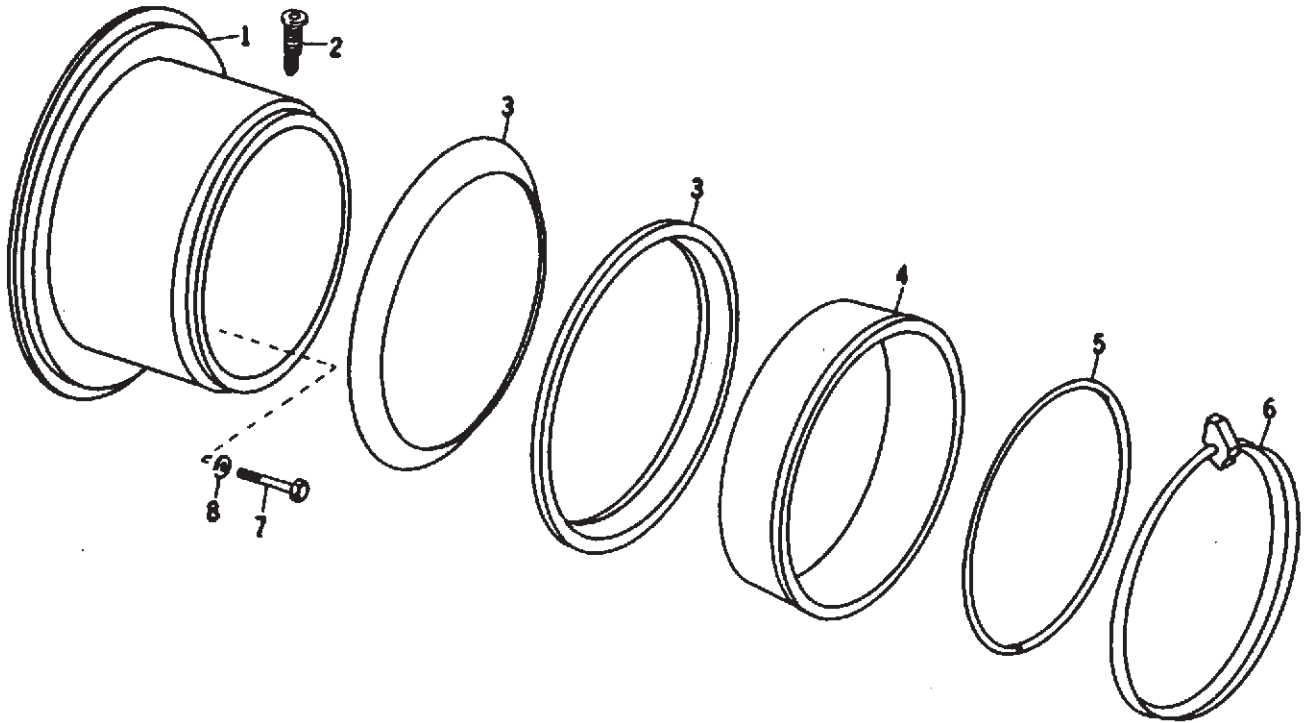


T6144AX -UN-11APR90

TX,0110,DT434 -19-06MAY94

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2

### 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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T7636AA -JUN-22OCT91



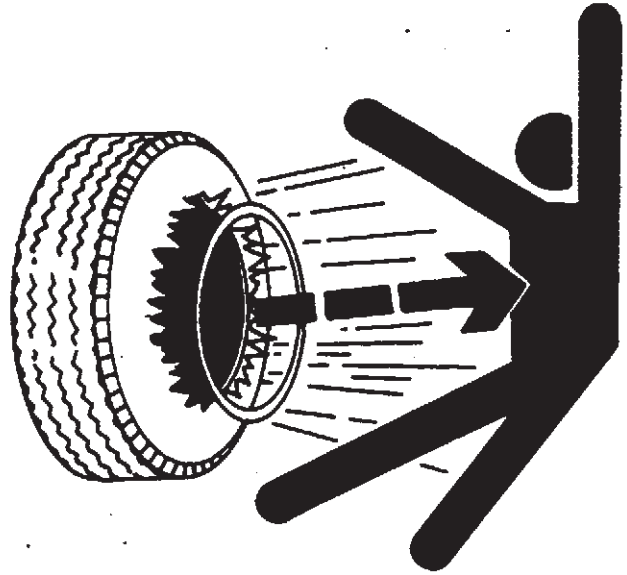
**!** **CAUTION:** Explosive separation of a tire and rim parts can cause serious injury or death.

Only attempt to mount a tire if you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified repair service.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure.

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front or over the tire assembly. Use safety cage if available.

Inspect tires and wheels daily. Do not operate with low pressure, cuts, bubbles, damaged rims or missing lug bolts.




TS211  
-UN-23AUG88

TX,0110,DT435A -19-09FEB99

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*NOTE: The tire can be removed without removing the wheel from the scraper.*

*See John Deere Off-The-Road Tire Maintenance Manual to remove tire from wheel.*

 **CAUTION: Failure to follow proper procedures when demounting a tire from a wheel or rim can produce an explosion which may result in serious bodily injury. DO NOT attempt to demount a tire unless you have the proper equipment and experience to perform the job safely. Have it done by a qualified tire repair service.**

1. Before attempting any demounting operation, always completely deflate tire by removing valve core from valve. Check the valve stem by running a probe through it, making sure the valve stem is not plugged. Remove valve nut.

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

 **CAUTION: Failure to follow proper procedures when mounting a tire on a wheel or rim, can produce an explosion which may result in serious bodily injury. DO NOT attempt to mount a tire unless you have the proper equipment and experience to perform the job safely. Have it done by a qualified tire repair service.**

*NOTE: See John Deere Off-The-Road Tire Maintenance Manual to mount tire on wheel.*


3. Make sure all parts are clean and free from rust or grease before assembly.

4. To prevent slipping of the wheel under load, the inside and outside of wheel must be free of paint,

rust, oil, grease, dirt or other foreign material before installation.

5. Install valve stem in rim base and tighten valve core housing finger tight.

6. Put John Deere non-soap lubricating grease, or an equivalent, on threads of pipe cap.

 **CAUTION: Serious bodily injury can occur from explosion when mounting and inflating tires if safe procedures are not followed.**

7. Before mounting tire on rim, add soap lubricant to beads of the tire and O-ring.

8. Before inflating tire, make sure the bead seat ring fits tight against the base all around the circumference.

9. Clear the area of all persons.

10. Use a pressure-regulating valve with clip-on chuck and extension hose long enough to allow you to stand well to one side and NOT in front of the assembly while inflating.

11. Use only recommended air pressure. Pressure over this limit can cause explosion.

12. Add air until side flange of tire slides out against the bead seat ring.

13. Before completely inflating tire, again make certain the bead seat ring is in its proper groove completely around the rim.

14. Check air pressure in all tires with an accurate gauge having 7 kPa (0.1 bar) (1 psi) graduations. Be sure that tire pressures are equal for all four tires.

### TIRE INFLATION CHART

Tire Size	Pressure
23.5 x 25 . . . . .	380 kPa (3.8 bar) (55 psi)
26.5 x 25 22 PR E2 . . . . .	276 kPa (2.8 bar) (40 psi)
26.5 x 25 (all others) . . . . .	380 kPa (3.8 bar) (55 psi)
26.5 x 29 . . . . .	350 kPa (3.5 bar) (50 psi)
29.5 x 25 (radials) . . . . .	310 kPa (3.1 bar) (45 psi)
29.5 x 25 22 PR . . . . .	276 kpa (2.8 bar) (40 psi)

*NOTE: Tire inflation pressure give on this chart are recommendations only and do not include all working conditions. For further details, see tire manufacturing specifications.*

T47,0110,K8 -19-05SEP95

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**SPECIAL OR ESSENTIAL TOOLS**

*NOTE: Order tools according to information given in the U.S. SERVICEGARD™ Catalog or in the European Microfiche Tool Catalog (MTC).*

DX,TOOLS -19-20JUL95

- Suspension Axle Bushing Kit . . . . . JDG898
- Bushings Installer . . . . . JDG898-1
- Bushings Receiver . . . . . JDG898-2
- Spacer . . . . . JDG898-3
- Bushings Remover . . . . . JDG898-4
- Forcing Screw . . . . . JDG898-5
- Special Nut . . . . . JDG898-6

To remove and install suspension axle frame end bushings.

JDG898 -19-25AUG94

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**SERVICE EQUIPMENT AND TOOLS**

*NOTE: Order tools from your SERVICE-GARD™ Catalog. Some tools may be available from a local supplier.*

Name	Use
Low Lift Transmission Jack . . . . .	To remove and install suspension axle assembly.
110 mm Disk . . . . .	To remove suspension axle frame bushing sleeve.
27 t (30-Ton) Hydraulic Ram . . . . .	To remove and install bushings in suspension axle frame ends.
*JT38053 Alignment Tool . . . . .	To check differential drive shaft alignment.

*\*Fabricated tool, dealer made. (See Section 99 for instructions to make tool.)*

T47,0200,C4 -19-25AUG94

## SPECIFICATIONS

Item	Measurement	Specification
<b>762B:</b>		
Axle Housing-to-Differential Case Cap Screws	Torque	338 N·m (250 lb-ft)
Differential-to-Frame Nuts	Torque	945 N·m (685 lb-ft)
Drive Shaft Cap Screws	Torque	163 N·m (120 lb-ft)
Axle and Differential	Weight	934 kg (2059 lb)
Axle	Weight	271 kg (598 lb)
<b>862B:</b>		
Axle Housing-to-Differential Case Cap Screws	Torque	338 N·m (250 lb-ft)
Suspension Axle Frame Bushings	Installed Distance Between Inner Sleeve of Bushings	894 ± 1.5 mm (35.19 ± 0.06 in.)
Stabilizer Bar Outer Race	Distance Below Surface	3.3 ± 0.51 mm (0.13 ± 0.02 in.)
Suspension Axle Frame-to-Axle Nuts (for 559 mm [22 in.] bolts) (8 used)	Torque	271 N·m (200 lb-ft) Continue tightening 5 Flats
Suspension Axle Frame-to-Axle Nuts (for 356 mm [14 in.] bolts) (4 used)	Torque	136 N·m (100 lb-ft) Continue tightening 4 Flats
Suspension Axle Cylinders	Extension Height	102 ± 12 mm (4.0 ± 0.5 in.)
Differential-to-Frame Nuts	Torque	14 214 N·m (1030 lb-ft)
Drive Shaft Cap Screws	Torque	102 N·m (75 lb-ft)
Axle and Differential (Non-Suspension)	Weight	1381 kg (3044 lb)
Axle and Differential (Suspension)	Weight	1641 kg (3617 lb)
Axle	Weight	377 kg (831 lb)

TX,0200,DW659 -19-25SEP95

## REMOVE AND INSTALL AXLE (NON-SUSPENSION) AND DIFFERENTIAL

**NOTE:** Axle housing and differential must be removed as an assembly.

Remove bottom guard.

Drain differential.

### Oil Capacity Specification

762B .....	21.8 L (5.8 gal)
872B .....	32 L (8.5 gal)

Remove wheels. (See Group 0110.)

Disconnect drive shaft (F).

Disconnect park brake cable (A).

Disconnect lines (B—E).



### CAUTION:

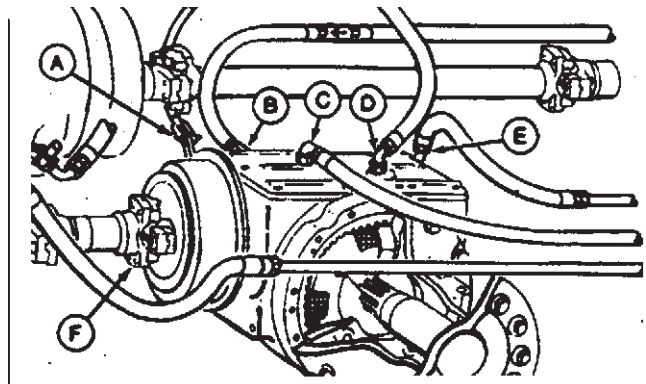
**762B:**

**Axle and differential assembly weighs approximately 934 kg (2059 lb).**

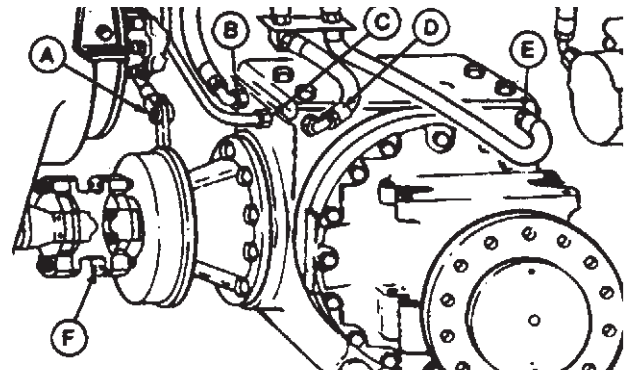
**862B:**

**Axle and differential assembly weighs approximately 1381 kg (3044 lb).**

Connect differential-axle assembly to a hoist. Remove six mounting cap screws from each side.



762B Shown



862B Shown

- A—Park Brake Cable
- B—From Differential Lock Valve
- C—From Differential Oil Cooler
- D—To Axle Filter
- E—From Brake Valve
- F—Drive Shaft
- A—Park Brake Cable
- B—To Differential Lock Valve
- C—From Axle Filter
- D—From Differential Lock Valve
- E—From Brake Valve
- F—Drive Shaft

T6416BD -JUN-18NOV89

T6416BE -JUN-19MAY89

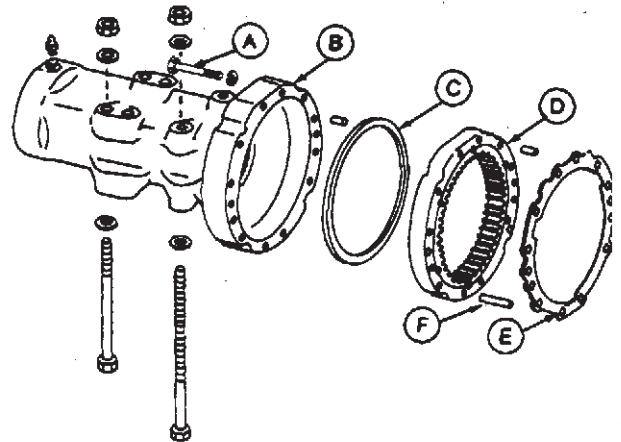
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**CAUTION:**

**762B:**  
Axle housing weighs approximately 271 kg (598 lb).

**862B:**  
Axle housing weighs approximately 377 kg (831 lb).



762B Shown

- A—Cap Screw (12 used)
- B—Axle Housing
- C—Packing
- D—Spacer with Gear
- E—Gasket
- F—Dowel Pin  
(3 used) (762B)  
(1 used) (862B)

T47,0200,C6 -19-04NOV87

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Remove cap screws (A) to remove axle housing. DO NOT let brake backing plate and disk fall.

*NOTE: Use a new gasket (E) when assembling axle.*

Install dowel pins (F) with small end out, in axle housing.

Assemble axle housing (B) and parts shown to differential case. Make sure brake disk and backing plate stay in place in differential.

Install two cap screws (A) finger tight. Check to make sure axle shaft turns. If it does not, brake disk is assembled incorrectly.

Install differential assembly and mounting cap screws. Tighten cap screws.

**AXLE AND DIFFERENTIAL TORQUE SPECIFICATIONS**

**762B:**

Axle housing-to-differential case cap screws	338 N·m (250 lb-ft)
Differential-to-frame nuts	945 N·m (685 lb-ft)
Drive shaft cap screws	163 N·m (120 lb-ft)

**862B:**

Axle housing-to-differential case cap screws	338 N·m (250 lb-ft)
Differential-to-frame nuts	14 214 N·m (1030 lb-ft)
Drive shaft cap screws	102 N·m (75 lb-ft)

Connect lines, park brake cable, and drive shaft. Tighten drive shaft cap screws.

Fill with correct oil.

Install wheels and bottom guard.

T47,0200,C7 -19-05SEP95

## REMOVE SUSPENSION AXLE AND DIFFERENTIAL—862B

*NOTE: Suspension axle and differential must be removed as an assembly.*

Position two blocks of wood in front of oscillation hitch to prevent scraper from turning.

Raise machine using suspension or bowl hydraulics.  
Block machine securely under engine frame.

*NOTE: Suspension cylinders rely on weight of machine to retract. Cylinders can be manually retracted by pushing leveling valve spool up.*

**CAUTION:** Suspension axle and differential assembly weighs approximately 1641 kg (3617 lb).

Install a low lift transmission jack under differential.

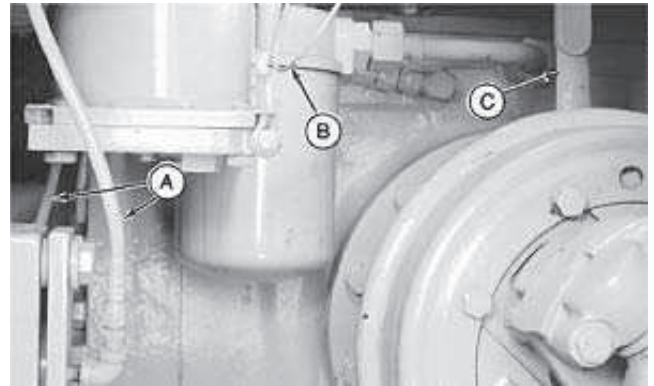
Remove wheels. (See Group 0110.)

If differential is to be removed from axle, drain oil from differential. Capacity is approximately 32 L (8.5 gal).

Disconnect axle filter restriction indicator wire (B) from filter housing.

Disconnect two grease lines (A) from both sides of machine.

Disconnect park brake cable lever (C).



T6409AU -UN-05APR90

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T47,0200,C8 -19-05SEP95

Remove grease lines (A) from each side of unit.



T6414AP -UN-05APR90

T47,0200,C9 -19-03SEP86



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