

8570, 8770, 8870 and 8970 Tractors Repair

For complete service information also see:

8570, 8770, 8870, and 8970 Tractors	
Operation and Tests	TM1550
6076 Engine	
Serial Number (500000-)	CTM42
6101 Engine	CTM20
Radial Piston Pumps	CTM7
Engine Accessories	CTM11
1600 Series Axles	CTM18

John Deere Waterloo Works
TM1549 (10MAR93)

LITHO IN U.S.A.
ENGLISH

**8570, 8770, 8870 and
8970 Tractors
Repair**

TM1549 (10MAR93)



Introduction

FOREWORD

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

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



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

Technical manuals are divided in two parts: repair and diagnostics. Repair sections tell how to repair the components. Diagnostic sections help you identify the majority of routine failures quickly.

Information is organized in groups for the various components requiring service instruction. At the beginning of each group are summary listings of all applicable essential tools, service equipment and tools, other materials needed to do the job, service parts kits, specifications, wear tolerances, and torque values.

Binders, binder labels, and tab sets can be ordered by John Deere dealers direct from the John Deere Distribution Service Center.

This manual is part of a total product support program.

FOS MANUALS—REFERENCE

TECHNICAL MANUALS—MACHINE SERVICE

COMPONENT MANUALS—COMPONENT SERVICE

Fundamentals of Service (FOS) Manuals cover basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes. FOS Manuals are for training new personnel and for reference by experienced technicians.

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

Component Technical Manuals are concise service guides for specific components. Component technical manuals are written as stand-alone manuals covering multiple machine applications.

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.



DX,FLAME -19-04JUN90

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-UN-23AUG88
TS227

PREVENT BATTERY EXPLOSIONS

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

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

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



DX,SPARKS -19-03MAR93

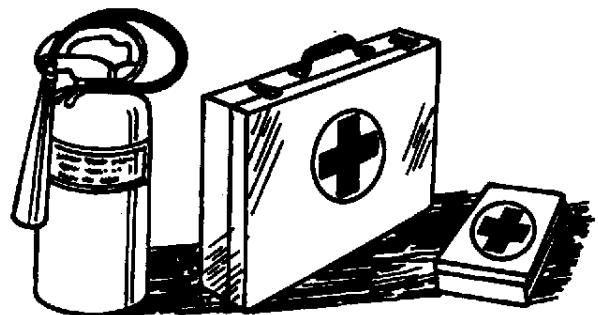
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TS204

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

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



DX,FIRE2 -19-03MAR93

-UN-23AUG88
TS291

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:

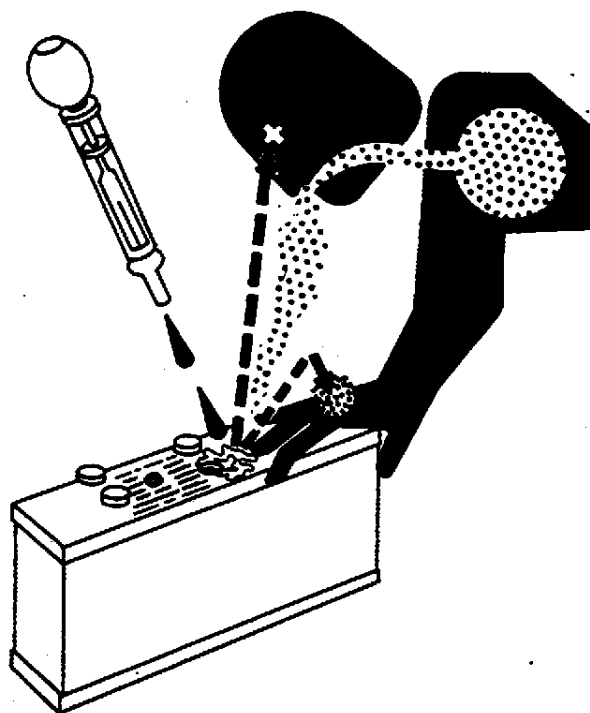
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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 10—15 minutes. Get medical attention immediately.

If acid is swallowed:

1. Drink large amounts of water or milk.
2. Then drink milk of magnesia, beaten eggs, or vegetable oil.
3. Get medical attention immediately.



TSS203 -UN-23AUG88

DX.POISON -19-04JUN90

HANDLE CHEMICAL PRODUCTS SAFELY

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

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

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

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



DX,MSDS,NA -19-03MAR93

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TS1132

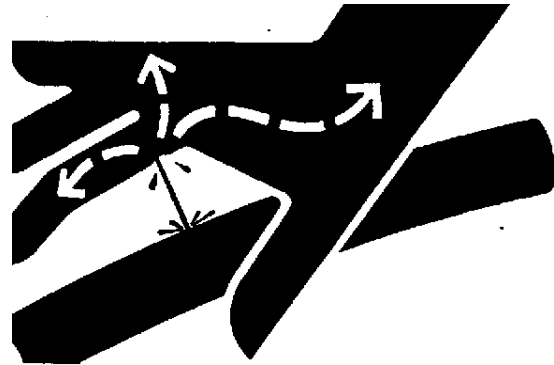
AVOID HIGH-PRESSURE FLUIDS

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

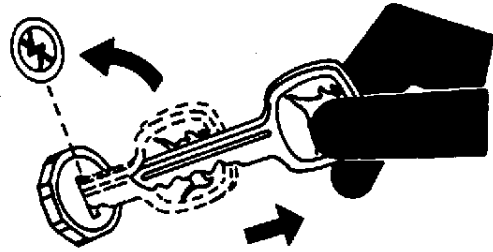
X9811
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PARK MACHINE SAFELY

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.



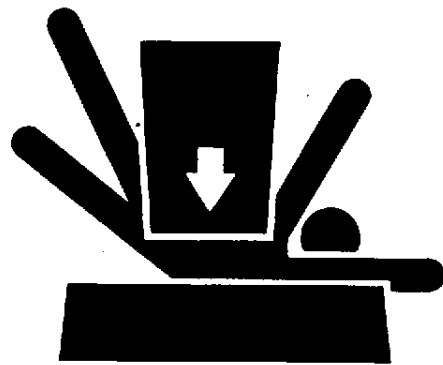
DX.PARK -19-04JUN90

TS230 -UN-24MAY69

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.

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.



DX.LOWER -19-04JUN90

TS229 -UN-23AUG88

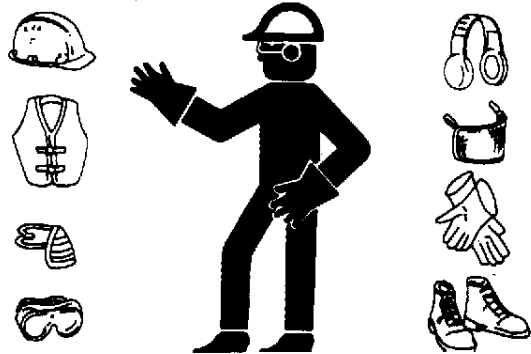
WEAR PROTECTIVE CLOTHING

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.



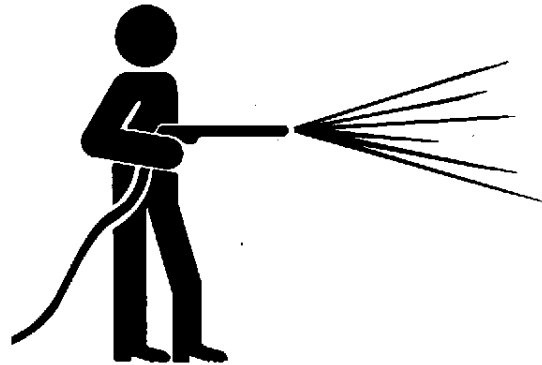
DX.WEAR -19-10SEP90

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

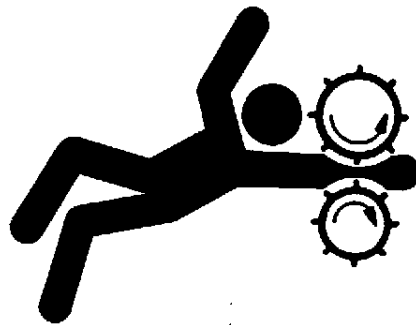
T6642EJ -UN-18OCT88

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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.



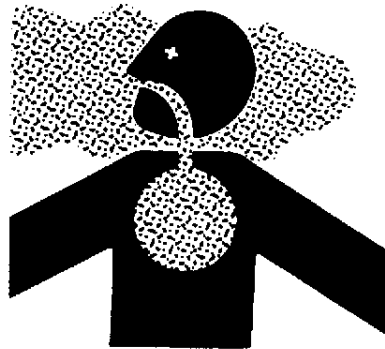
DX,LOOSE -19-04JUN90

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.

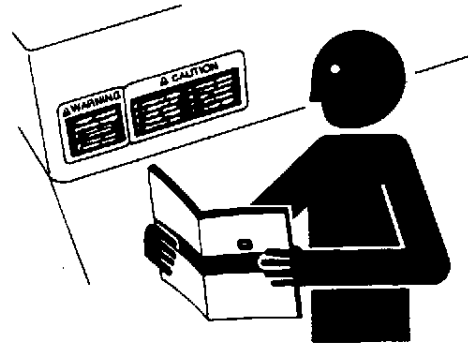


DX,LIGHT -19-04JUN90

TS223 -UN-23AUG88

REPLACE SAFETY SIGNS

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



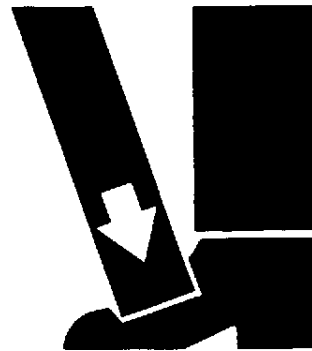
DX,SIGNS1 -19-04JUN90

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

SERVICE TIRES SAFELY

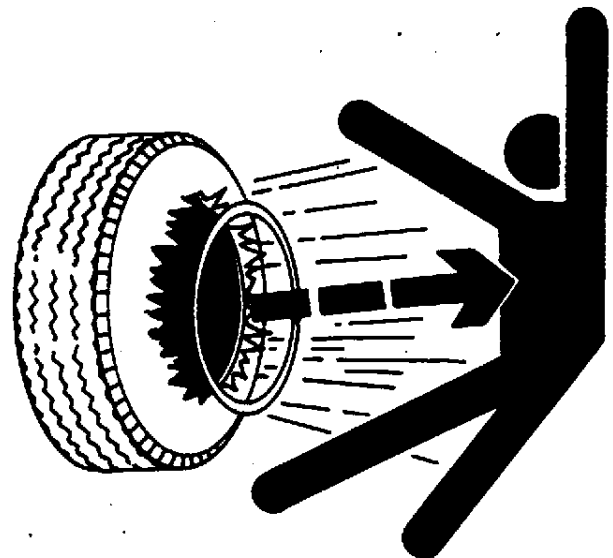
Explosive separation of a tire and rim parts can cause serious injury or death.

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.



DX,RIM -19-24AUG90

TS211 -UN-23AUG88

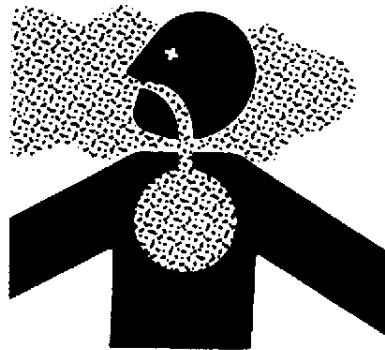
AVOID HARMFUL ASBESTOS DUST

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.



DX,DUST -19-15MAR91

TS220 -UN-23AUG68

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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

TS953 -UN-15MAY90

REMOVE PAINT BEFORE WELDING OR HEATING

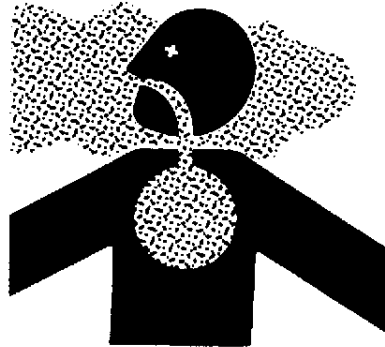
Avoid potentially toxic fumes and dust.

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-23AUG68

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

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DISPOSE OF WASTE PROPERLY

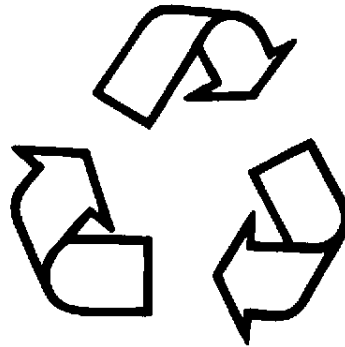
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

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 John Deere dealer.



DX,DRAIN -19-03MAR93

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TS1133

LIVE WITH SAFETY

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



DX,LIVE -19-25SEP92

-19-07OCT88
TS231

Safety

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GENERAL SPECIFICATIONS

	8570	8770	8870	8970
Power:				
Engine (Factory observed)	250 hp (186 kW)	300 hp (224 kW)	350 hp (261 kW)	400 hp (298 kW)
Rated speed	2100 rpm	2100 rpm	2100 rpm	2100 rpm
Governed speed range	900—2260 rpm	900—2260 rpm	900—2260 rpm	800—2260 rpm
Operating speed range	1500—2100 rpm	1500—2100 rpm	1500—2100 rpm	1500—2100 rpm
Engine:				
Type	in-line 6-cylinder, valve-in-head, turbocharged, and air-to-air aftercooled diesel			in-line 6-cylinder, valve-in-head, turbocharged and water-to-air aftercooled
Displacement	466 in. ³ (7.6 L)	619 in. ³ (10.1L)	619 in. ³ (10.1L)	855 in. ³ (14.0L)
Bore	4.56 in. (116 mm)	5.12 in. (130 mm)	5.12 in. (130 mm)	5.50 in. (140 mm)
Stroke	4.75 in. (121 mm)	5.00 in. (127 mm)	5.00 in. (127 mm)	6.00 in. (152 mm)
Compression ratio	15.8:1	15.75:1	15.75:1	14.0:1
Lubrication	full-flow filtration w/bypass	full-flow filtration w/bypass	full-flow filtration w/bypass	full-flow filtration w/bypass
Fuel System:				
Injection pump type	in-line	in-line	in-line	Cummins Pressure-Time
Fuel filter		Spin-on primary filter with separator bowl/ Clamp-on final filter		Spin-on throwaway
Number fuel filters	2	2	2	1
Air cleaner	dry-type with secondary element	dry-type with secondary element	dry-type with secondary element	dry-type with secondary element
Cooling System:				
Fan	viscous drive	viscous drive	viscous drive	viscous drive
Number of thermostats	2	3	3	1
Electrical System:				
Type	12 volt	12 volt	12 volt	12 volt
Alternator	negative ground 120 amp	negative ground 120 amp	negative ground 120 amp	negative ground 120 amp
Batteries	two 12 volt	two 12 volt	two 12 volt	three 12 volt
Cold cranking amps	1850	1850	1850	2775
Capacities:				
Fuel tank	220 gal (835L)	220 gal (835L)	220 gal (835L)	220 gal (835L)
Cooling system	58 qt (55L)	58 qt (55L)	58 qt (55L)	72 qt (68.1L)
Crankcase	24.3 qt (23L)	33.8 qt (32L)	33.8 qt (32L)	36 qt (34L)
Transmission (all types)	10 gal (37.8L)	10 gal (37.8L)	10 gal (37.8L)	10 gal (37.8L)
Hydraulic system:				
Total:				
Standard Axle	38 gal (144L)	38 gal (144L)	38 gal (144L)	40 gal (151L)
Optional Axle	—	—	40 gal (151L)	—
Hydraulic reservoir	14 gal (53L)	14 gal (53L)	14 gal (53L)	14 gal (53L)

RX15491005.1 -19-04FEB93

Machine Specifications/Specifications

Hydraulic System:

Type	Closed-Center, Pressure Compensating
Main Hydraulic Pump	8-Piston, Variable Displacement
Displacement	4 in. ³ (65 cm ³)
Standby Pressure	2530 psi (17 500 kPa) (175 bar)
Steering System	Hydrostatic Power
Hitch Lift Capacity:	
8570 and 8770	14983 lb (6796 kg)
8870:	
Standard Axle	12136 lb (5505 kg)
Optional Axle	13968 lb (6336 kg)
8970	No Hitch

Brakes:

Type	Hydraulically Operated Wet Disk
8570 and 8770	Mounted in Front Axle Assembly
8870 and 8970	Mounted in Front and Rear Axle Assemblies

Transmissions:

12-Speed Syncro:	
Type	Hydraulically Activated Wet Disk Clutch
Gear Selections	12 Forward, 3 Reverse
24-Speed POWRSYNC:	
Type	Hydraulically Activated Wet Disk Clutch and Hi-Lo Clutch
Gear Selections	24 Forward, 6 Reverse
12-Speed Powershift (8770, 8870 and 8970):	
Type	Electronically Activated Wet Clutch
Gear Selections	12 Forward, 2 Reverse

Power Take-Off:

Type	Fully Independent
Speed	1000 rpm
Size	1-3/4 in. (45 mm)
Clutch	Multiple Wet-Disk Hydraulically Activated

RX15491005.2 -19-14JAN93

Machine Specifications/Specifications

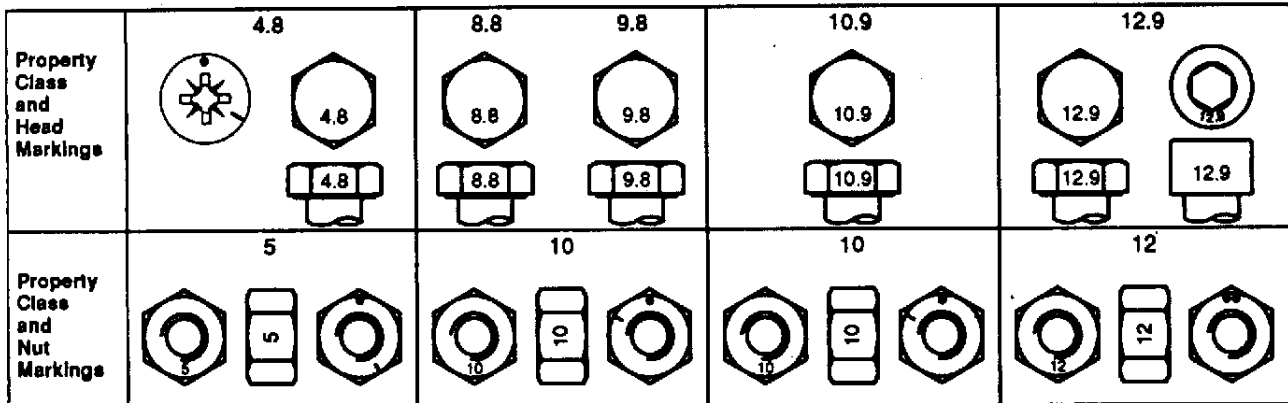
Overall Dimensions:

	8570 (18.4-38 duals)	8770 (20.8-38 duals)	8870 (20.8-38 duals)	8970 (20.8-42 duals)
Wheelbase	134.0 in. (3400 mm)	134.0 in. (3400 mm)	134.0 in. (3400 mm)	134.0 in. (3400 mm)
Overall Length	268.9 in. (6830 mm)	268.9 in. (6830 mm)	268.9 in. (6830 mm)	268.9 in. (6830 mm)
Width:				
Standard Axle	119.8 in. (3042 mm)	119.8 in. (3042 mm)	119.8 in. (3042 mm)	128.0 in. (3240 mm)
Optional Axle	—	—	128.0 in. (3240 mm)	—
Height				
Top of SOUND-GARD	134.3 in. (3410 mm)	135.8 in. (3440 mm)	135.8 in. (3440 mm)	137.4 in. (3491 mm)
Top of Hood	95.9 in. (2436 mm)	97.1 in. (2466 mm)	97.1 in. (2466 mm)	99.1 in. (2517 mm)
Top of Muffler	151.7 in. (3852 mm)	152.8 in. (3882 mm)	152.8 in. (3882 mm)	154.8 in. (3933 mm)
Turning Radius	14.6 ft (4.45 m)	14.6 ft (4.45 m)	14.6 ft (4.45 m)	14.6 ft (4.45 m)
Crop Clearance (axle)	18.8 in. (477 mm)	20.0 in. (507 mm)	20.0 in. (507 mm)	22.0 in. (558 mm)
Estimated Shipping Weight (No PTO - No Hitch)	29564 lb (13 410 kg)	31438 lb (14 260 kg)	31438 lb (14 260 kg)	31879 lb (14 460 kg)
Tires (standard)	18.4R-38 in.	20.8R-38 in.	20.8R-38 in.	20.8R-42 in.

RX15491005.3 -19-22DEC92

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METRIC BOLT AND CAP SCREW TORQUE VALUES



Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	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
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	225	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.

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












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.

^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.

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.

UNIFIED INCH BOLT AND CAP SCREW TORQUE VALUES

SAE Grade and Head Markings	1 or 2 ^b	5	5.1	5.2	8	8.2
	NO MARK 					
SAE Grade and Nut Markings	2	5		8		
	NO MARK 					

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	215	160	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	470	300	510	375	470	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.

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.

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

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.

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ABBREVIATIONS

Abbreviations are used in place of some words.

AQS—Air Quality System

CTM—Component Technical Manual

ECU—Engine Control Unit

EFI—Electronic Fuel Injection

ID—Inside Diameter

MST—Manual Shift Transmission

OD—Outside Diameter

ORS—O-Ring Seal

PST—Power Shift Transmission

PTO—Power Take-Off

SCV—Selective Control Valve

SMV—Slow Moving Vehicle

SGB—SOUND-GARD Body

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