7440 and 7445 Cotton Strippers

JOHN DEERE

TECHNICAL MANUAL

7440 and 7445
Cotton Strippers

TM1282 (03AUG94) English

FOR COMPLETE SERVICE INFORMATION ALSO SEE:

John Deere Des Moines Works
TM1282 (03AUG94)

LITHO IN U.S.A.
ENGLISH

Introduction

FOREWORD

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

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

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

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

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

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

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

DX,TMIFC -19-22MAY92

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Section 10
GENERAL

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FOLLOW SAFE PROCEDURES

Unsafe work practices are dangerous. Understand service procedure before doing work; do not attempt shortcuts.

TS231 -19-07OCT88

TX,05,FF1611 -19-14JUN90

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 -19-04JUN90

PREVENT BATTERY EXPLOSIONS

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

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

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

TS204 -UN-23AUG88

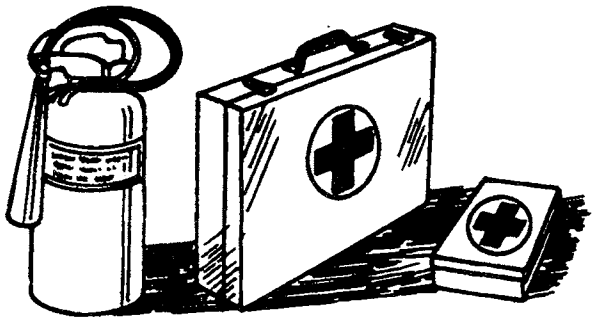
DX,SPARKS -19-03MAR93

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

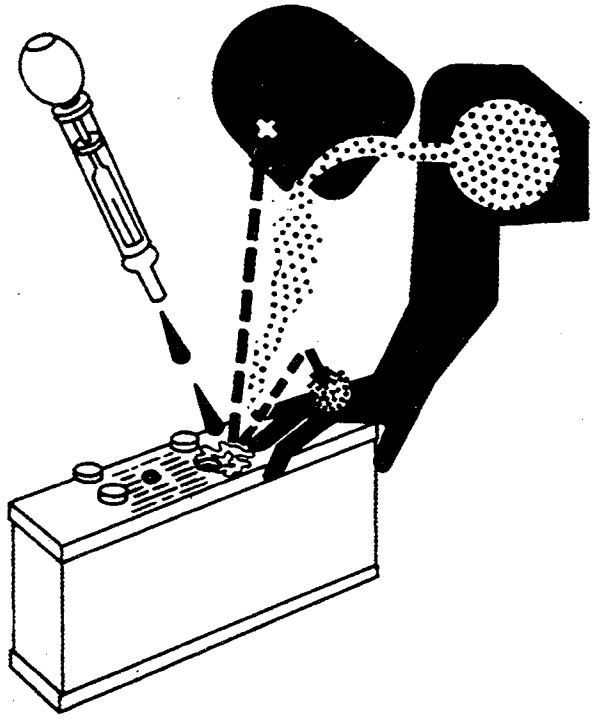
PREVENT ACID BURNS

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.



TS203 -UN-23AUG88

DX,POISON -19-21APR93

HANDLE CHEMICAL PRODUCTS SAFELY

TS1132 -UN-26NOV90

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.

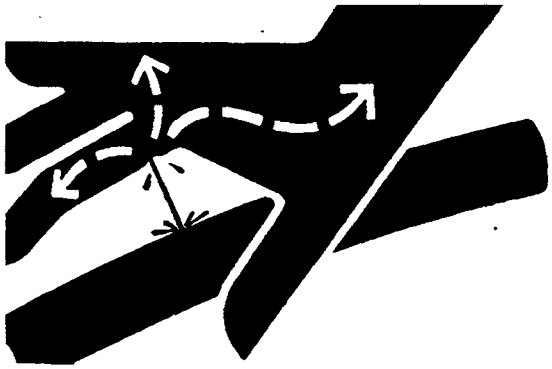
A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.

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

AVOID HIGH-PRESSURE FLUIDS



X9811 -UN-23AUG88

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.

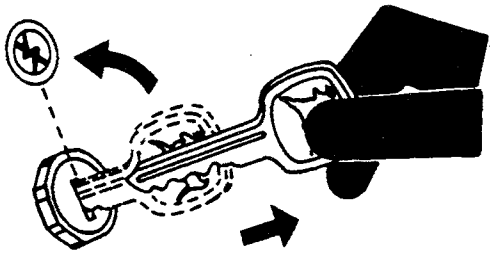
Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

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

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.



TS230 -UN-24MAY89

DX,PARK -19-04JUN90

AVOID POWER LINES

Serious injury or death can result from contact with electric lines.

Be certain that basket will not touch any overhead power lines when it is in raised position. Electrical shock will occur if you touch machine when it is in contact with overhead power lines.

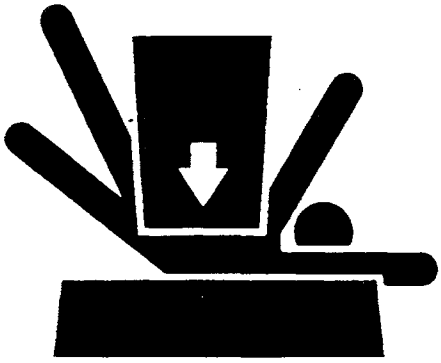
TS683 -UN-21SEP89

NXR,1005,A -19-14MAY92

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.



TS229 -UN-23AUG88

DX,LOWER -19-04JUN90

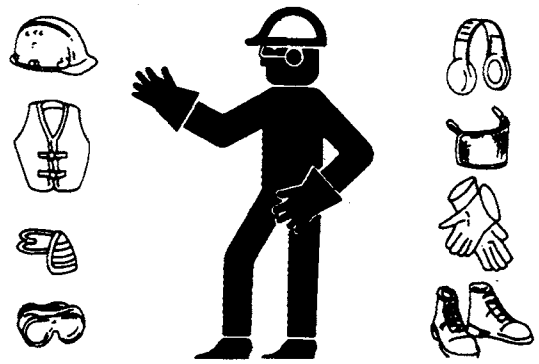
WEAR PROTECTIVE CLOTHING

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.

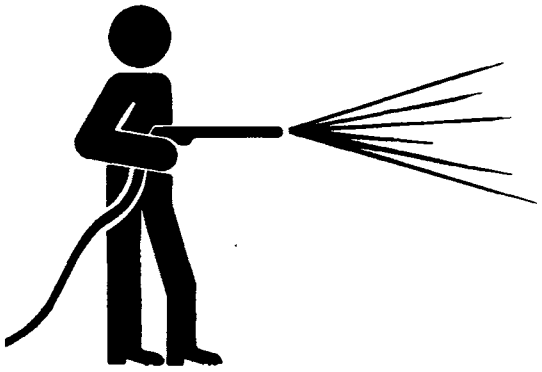


TS206 -UN-23AUG88

DX,WEAR -19-10SEP90

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.



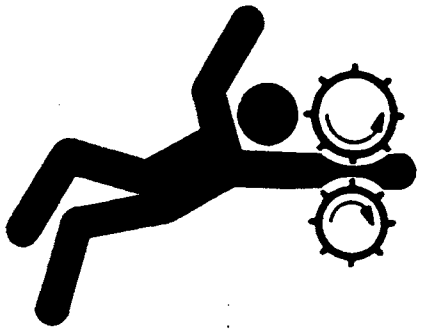
T6642EJ -UN-18OCT88

DX,CLEAN -19-04JUN90

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.



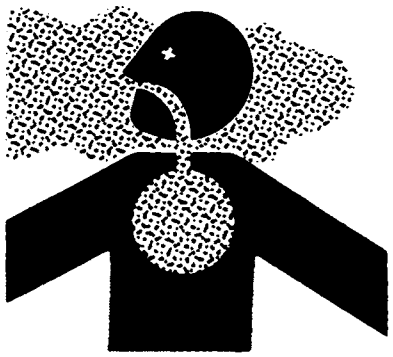
TS228 -UN-23AUG88

DX,LOOSE -19-04JUN90

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.

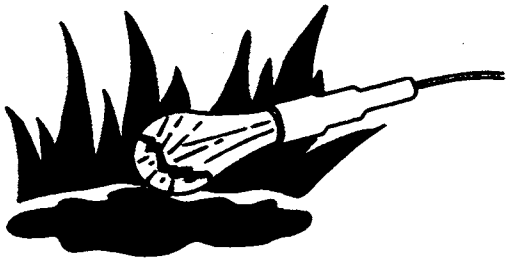


TS220 -UN-23AUG88

DX,AIR -19-04JUN90

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.

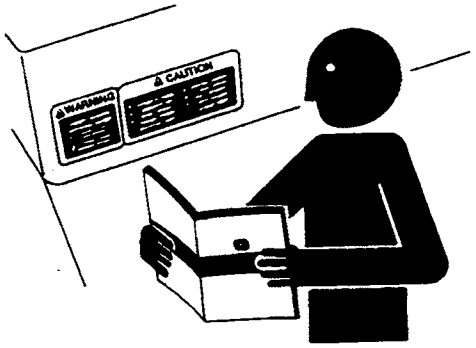


TS223 -UN-23AUG88

DX,LIGHT -19-04JUN90

REPLACE SAFETY SIGNS

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



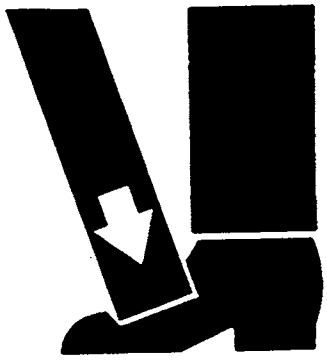
TS201 -UN-23AUG88

DX,SIGNS1 -19-04JUN90

USE PROPER LIFTING EQUIPMENT

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

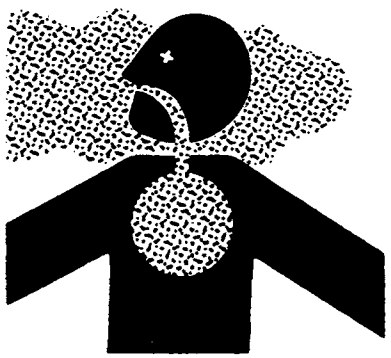
Follow recommended procedure for removal and installation of components in the manual.



TS226 -UN-23AUG88

DX,LIFT -19-04JUN90

REMOVE PAINT BEFORE WELDING OR HEATING



TS220 -UN-23AUG88

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

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.

TS953 -UN-15MAY90

DX,TORCH -19-03MAR93

SERVICE TIRES SAFELY

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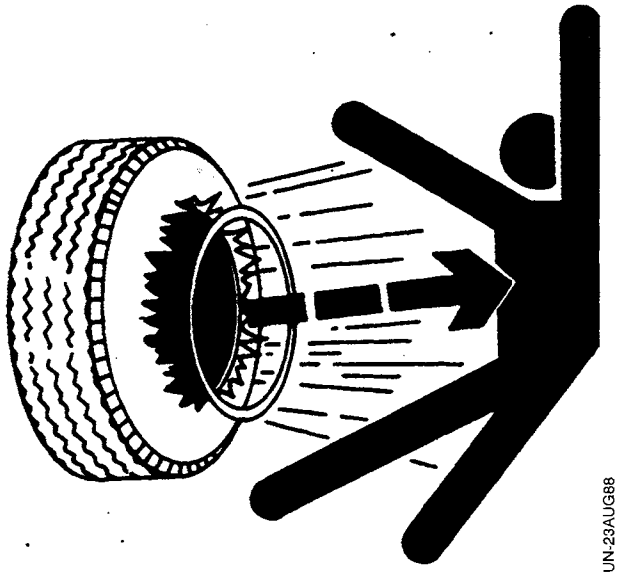
Explosive separation of a tire and rim parts can cause serious injury or death.

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.



TS211 -UN-23AUG88

DX,RIM -19-24AUG90

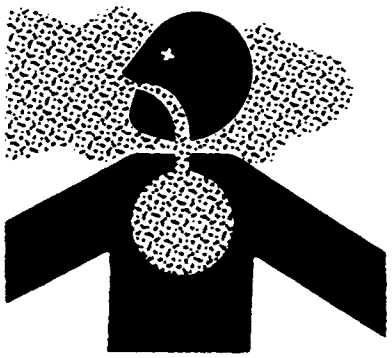
AVOID HARMFUL ASBESTOS DUST

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.



TS220 -UN-23AUG88

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.

Disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

TS218 -UN-23AUG88

DX,SERV -19-03MAR93

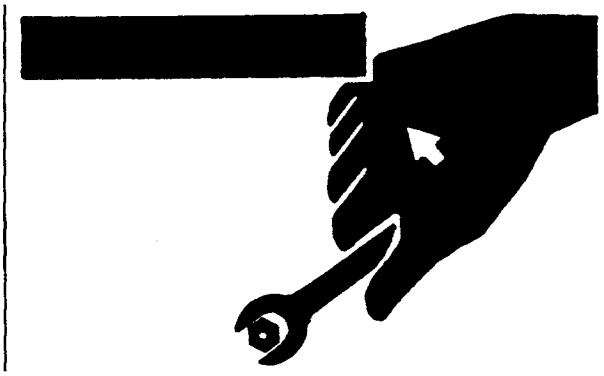
USE PROPER TOOLS

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.



TS779 -UN-06NOV89

DX,REPAIR -19-04JUN90

DISPOSE OF WASTE PROPERLY

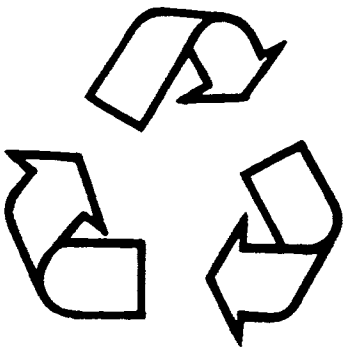
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

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.



TS1133 -UN-26NOV90

DX,DRAIN -19-03MAR93

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 -19-25SEP92

SPECIFICATIONS

WEIGHT	
7440	6901 kg (15,200 lb)
7445	7945 kg (17,500 lb)
ENGINE	
Model	
7440	6359DN01 Diesel
7445 (P.I.N. -4060)	6359TN-02 Diesel
7445 (P.I.N. 4061-8000)	6359TN002 Diesel
7445 (P.I.N. 8001-)	6059TN002 Diesel
Number of cylinders	6
Bore	106.5 mm (4.19 in.)
Stroke	110 mm (4.33 in.)
Displacement	5883 cm^3 (359 cu in.)
Horsepower (@ 2500 rpm, without fan)	
7440	85 kW (114 hp)
7445	101 kW (135 hp)
Engine speeds	
Fast idle (no load)	
7440 and 7445 (P.I.N. -8000)	2640-2680 rpm
7445 (P.I.N. 8001—)	2675-2725 rpm
Rated (under field load)	2500 rpm
Slow idle	
7440 and 7445 (P.I.N. -8000)	780-820 rpm
7445 (P.I.N. 8001—)	800-900 rpm
COOLING SYSTEM	
Type	Liquid, pressurized
Radiator pressure cap	50 kPa (0.5 bar) (7 psi)
Thermostat	Two, 82°C (180°F)
OPERATOR'S CAB	
Type	SOUND-GARD® styled cab (with no ROPS) PERSONAL-POSTURE™ seat with deluxe seat suspension, heater, windshield wiper, rear view mirror, air conditioner and monitor
Heater capacity	5274 W (18,000 BTU)
Air conditioner	
Compressor make	
7440 (S.N. 101-1000)	DELCO
7440 (S.N. 1001-) and 7445	NIPPONDENSO
Capacity	6446 W (22,000 BTU)
Refrigerant	
7440; 7445 (P.I.N. -16000)	R-12
7445 (P.I.N. 16001-)	R134a
Refrigerant charge	
7440; 7445 (P.I.N. -16000)	2 kg (4-1/2 lb)
7445 (P.I.N. 16001-)	1.7 kg (3-3/4 lb)

NX1282,1010,A -19-07JUL94

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HYDROSTATIC DRIVE

Make	
7440 and 7445 (P.I.N. -2000)	EATON
7445 (P.I.N. 2001-)	SUNDSTRAND
Type of oil filter	Full flow suction
Type of oil cooler	Air-cooled

GROUND SPEEDS (Full Throttle) (7440; 7445, P.I.N. -4000)

Forward	
1st Gear	0-4.66 km/h (0-2.9 mph)
2nd Gear	0-9.33 km/h (0-5.8 mph)
3rd Gear	0-12.71 km/h (0-7.9 mph)
4th Gear	0-25.42 km/h (0-15.8 mph)
Reverse	
1st Gear	0-2.41 km/h (0-1.5 mph)
2nd Gear	0-4.66 km/h (0-2.9 mph)
3rd Gear	0-6.44 km/h (0-4.0 mph)
4th Gear	0-12.71 km/h (0-7.9 mph)

GROUND SPEEDS (Full Throttle) (7445, P.I.N. 4001-)

Forward	
1st Gear	0-5.15 km/h (0-3.2 mph)
2nd Gear	0.10.14 km/h (0-6.3 mph)
3rd Gear	0-13.84 km/h (0-8.6 mph)
4th Gear	0-27.84 km/h (0-17.3 mph)
Reverse	
1st Gear	0-2.57 km/h (0-1.6 mph)
2nd Gear	0-5.07 km/h (0-3.25 mph)
3rd Gear	0-6.91 km/h (0-4.3 mph)
4th Gear	0-13.92 km/h (0-8.65 mph)

CAPACITIES

Cotton basket with extension	22.88 m^3 (808 cu ft)
Fuel tank	
7440 and 7445 (P.I.N. -6000)	261 L (69 U.S. gal)
7445 (P.I.N. 6001—)	356 L (94 U.S. gal)
Cooling system	
7440	30.3 L (32 U.S. qt)
7445	32.2 L (34 U.S. qt)
Engine crankcase, including filter	
7440	11.4 L (12 U.S. qt)
7445 (6359 Engine)	14 L (14.8 U.S. qt)
7445 (6059 Engine)	18.9 L (20 U.S. qt)
Hydraulic system	32.2 L (34 U.S. qt)
Reservoir	17.4 L (18.4 U.S. qt)
Transmission	17.0 L (18 U.S. qt)
Final drives	1.9 L (2 U.S. qt) (each)
Hydrostatic drive system	25.6 L (27 U.S. qt)
Reservoir	17.4 L (18.4 U.S. qt)

NX1282,1010,B -19-06JUL94

ELECTRICAL SYSTEM
- Battery voltage ..... 12 volts
- Battery terminal grounded ..... Negative
- Battery
  - Group 31
  - Amps
    - 7440; 7445 (P.I.N. -16000) 625
    - 7445 (P.I.N. 16001-) 925
- Capacity (min.)
  - 7440; 7445 (P.I.N. -16000) 160
  - 7445 (P.I.N. 16001-) 180
- Alternator
  - 7440 (S.N. 101-1000) ..... 72 Amp
  - 7440 (S.N. 1001-); 7445 (P.I.N. -12000) ..... 90 Amp
  - 7445 (P.I.N. 12001-) ..... 95 Amp

TIRES
- Front drive wheels
  - 7440 ..... 18.4-26, 8 PR
  - 7445 (P.I.N. -4000) ..... 18.4-26, 10 PR
  - 7445 (P.I.N. 4001-) ..... 16.9-34, 10 PR
  - Optional 7445 (P.I.N. 4001-) ..... 23.1-26, 8 PR
- Rear guide wheels
  - 7440 ..... 12.5 L-15, 6 PR
  - 7445 (P.I.N. -4000) ..... 12.5 L-16, 8 PR
  - 7445 (P.I.N. 4001-) ..... 9.00-24, 8 PR

TIRE PRESSURE
- Drive wheels
  - 7440 and 7445 (P.I.N. -4000) ..... 165 kPa (1.7 bar) (24 psi)
  - 7445 (P.I.N. 4001-) ..... 221 kPa (2.2 bar) (32 psi)
- Guide wheels
  - 7440 and 7445 (P.I.N. -4000) ..... 248 kPa (2.5 bar) (36 psi)
  - 7445 (P.I.N. 4001-) ..... 303 kPa (3.0 bar) (44 psi)

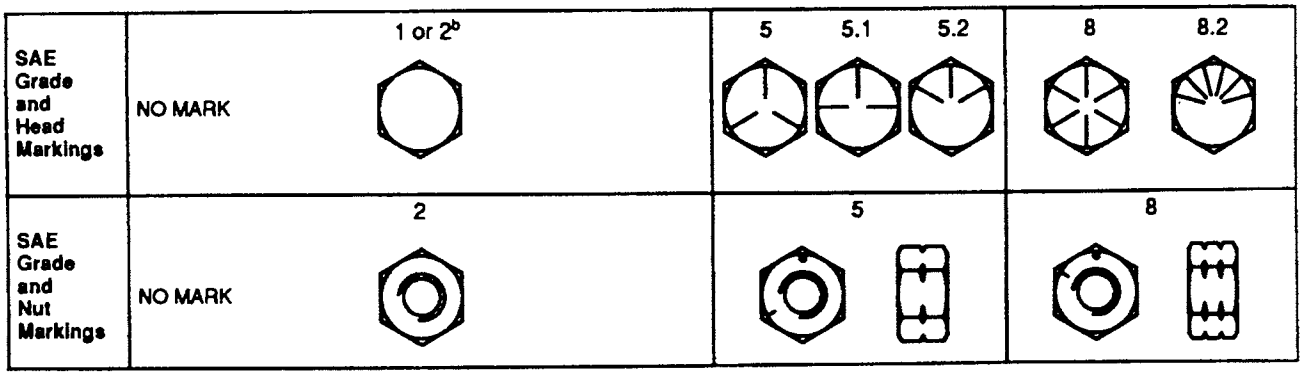
STRIPPING UNITS
- Number or units ..... 4 to 6
- Number of rolls per unit 2
- Type of rolls ..... Alternate brush and rubber flap
- Diameter of brushes ..... 152 mm (6 in.)
- Length of rolls (7440; 7445, P.I.N. -14000) ..... 1016 mm (40 in.)
  (7445, P.I.N. 14001-) ..... 940mm (37 in.)
- Cross conveyor ..... 305 mm (12 in.) diameter auger
- Height control ..... Automatic, with manual override lift and individual height control levers
- Number of augers per unit ..... Two, 146 mm (5-3/4 in.) diameter

ROW WIDTHS ..... 2 to 1016 mm (30 to 40 in.)

GREEN BOLL BOX
- 7440 ..... Spreading auger, hydraulic dump
- 7445 ..... Jet Air boll box separation system, hydraulic dump

NX1282,1010,C -19-06JUL94

UNIFIED INCH BOLT AND CAP SCREW TORQUE VALUES



TS1162 -19-04MAR91

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.

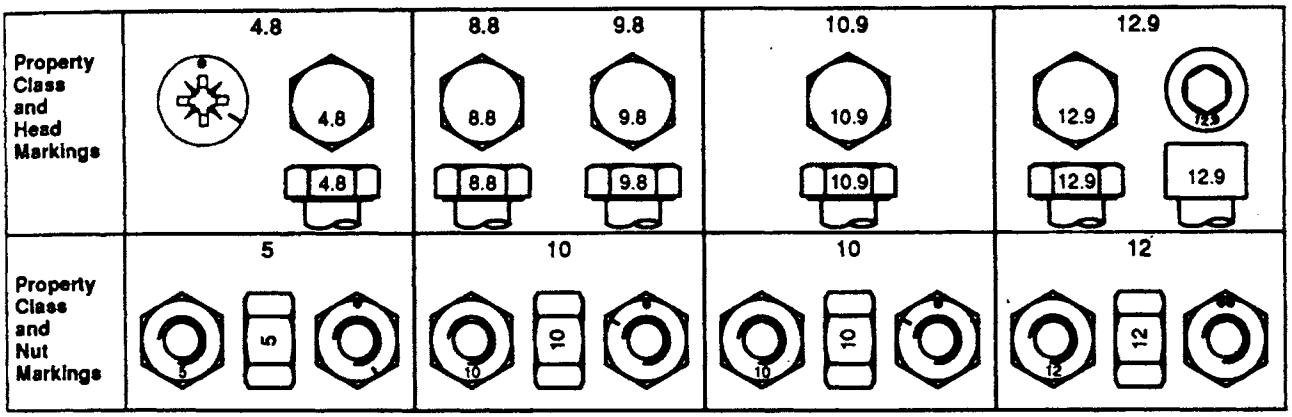
Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

[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

METRIC BOLT AND CAP SCREW TORQUE VALUES



TS1163 -19-04MAR91

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	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.

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.

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.*

DX,TORQ2 -19-20JUL94

O-RING BOSS FITTING TORQUE CHART

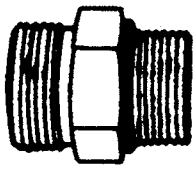
10
10
6

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.



T6243AE -UN-18OCT88

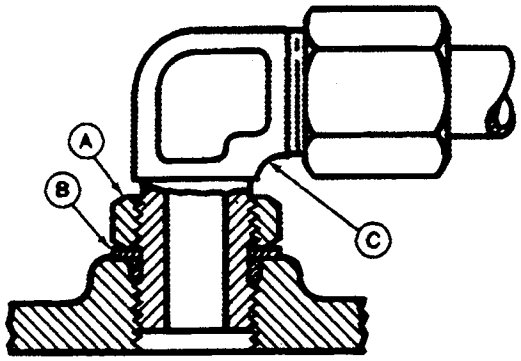
ANGLE FITTING

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 (B) contacts face of boss.

3. Turn fitting head-end (C) counterclockwise to proper index (maximum of one turn).

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



T6520AB -UN-18OCT88

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

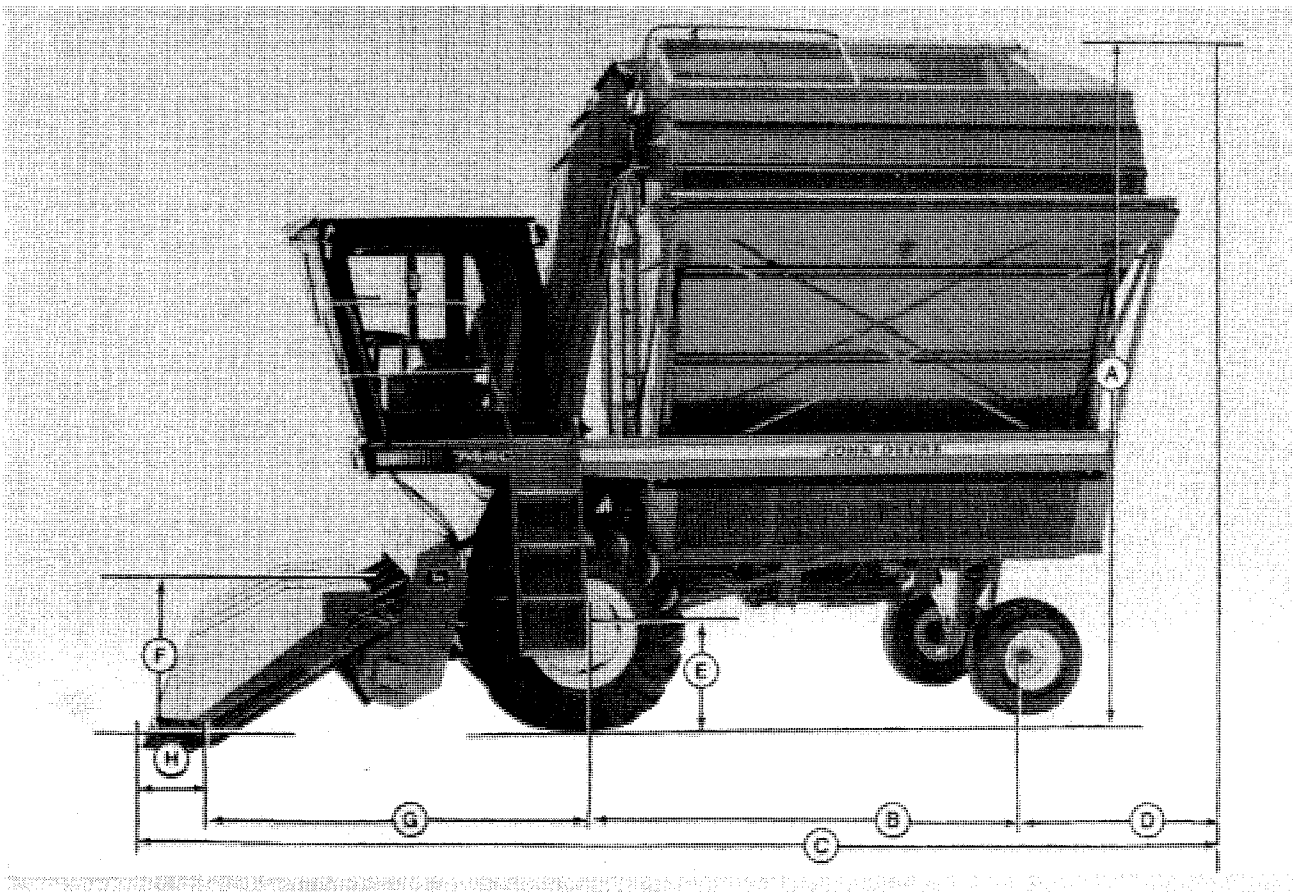
TORQUE VALUE CHART

Thread Size	Torque 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%.

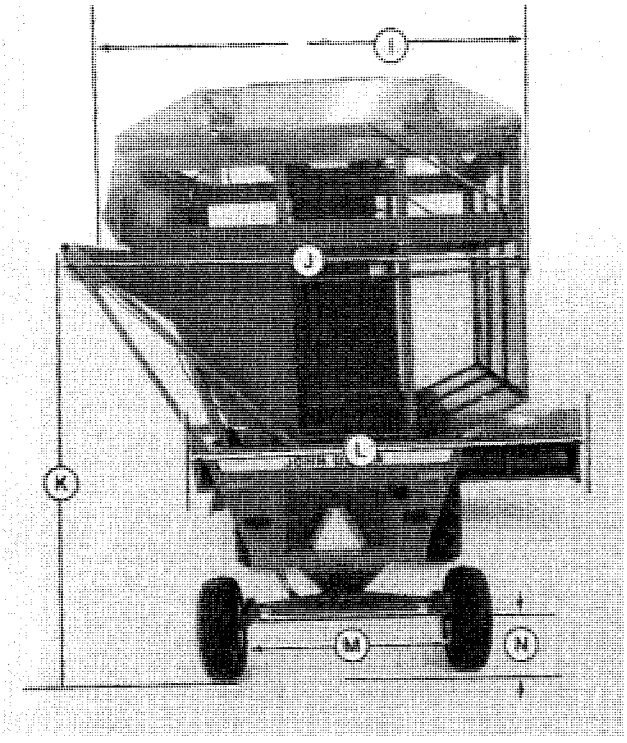
1401,1010,T -19-12SEP91

DIMENSIONS - 7440



N36812 -UN-14JUN89

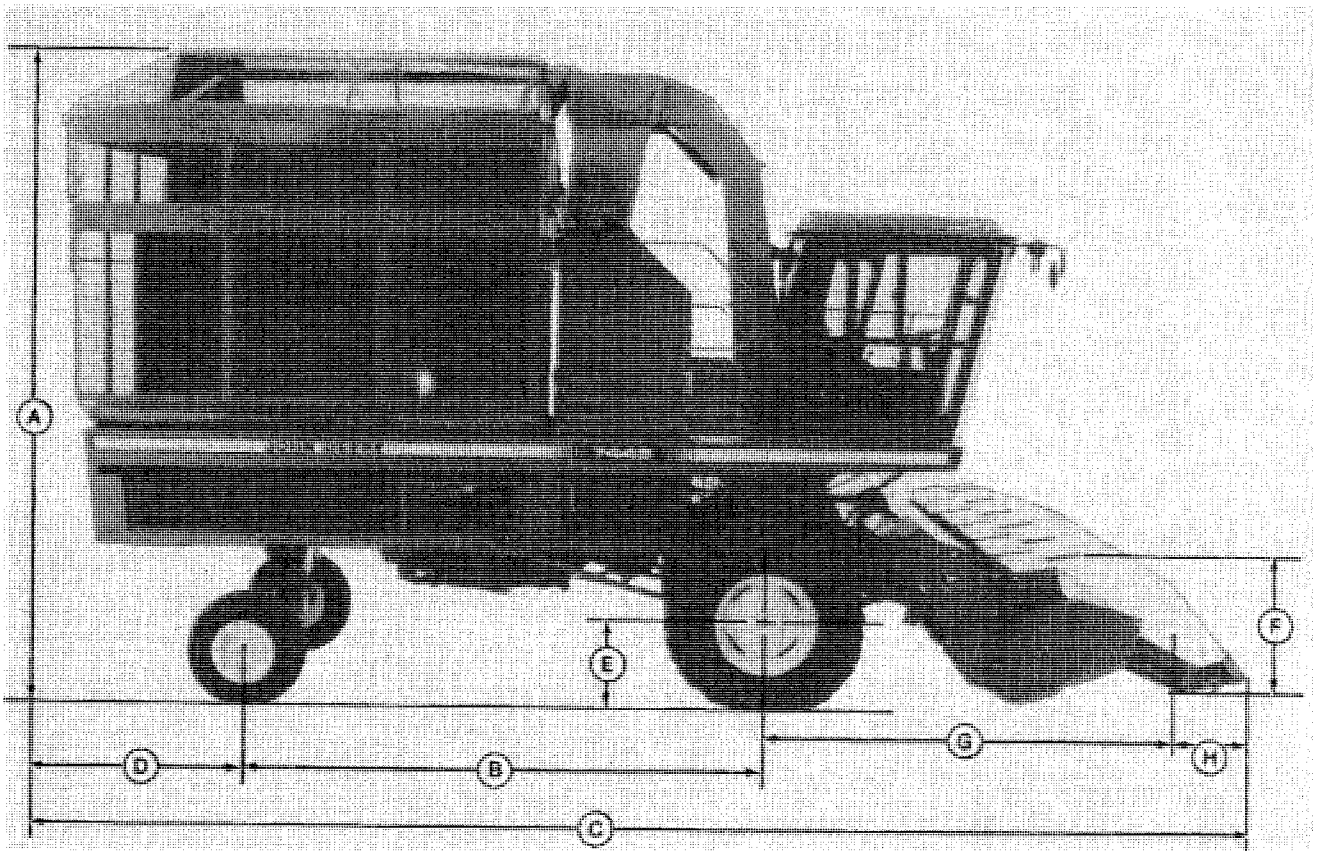
A—4699 mm (185 in.)
B—3150 mm (124 in.)
C—6655 mm (262 in.)
D—788 mm (31 in.)
E—648 mm (25-1/2 in.)
F—902 mm (35-1/2 in.)
G—2235 mm (88 in.)
H—483 mm (19 in.)
I—3332 mm (131-3/16 in.)
J—3404 mm (134 in.)
K—3429 mm (135 in.)
L—3404 mm (134 in.)
Without Extension;
3988 mm (157 in.)
Short Cross Auger Extension;
4801 mm (189 in.)
Long Cross Auger Extension
M—1702 mm (67 in.)
N—357 mm (14 in.)



N82256G1 -UN-04OCT88

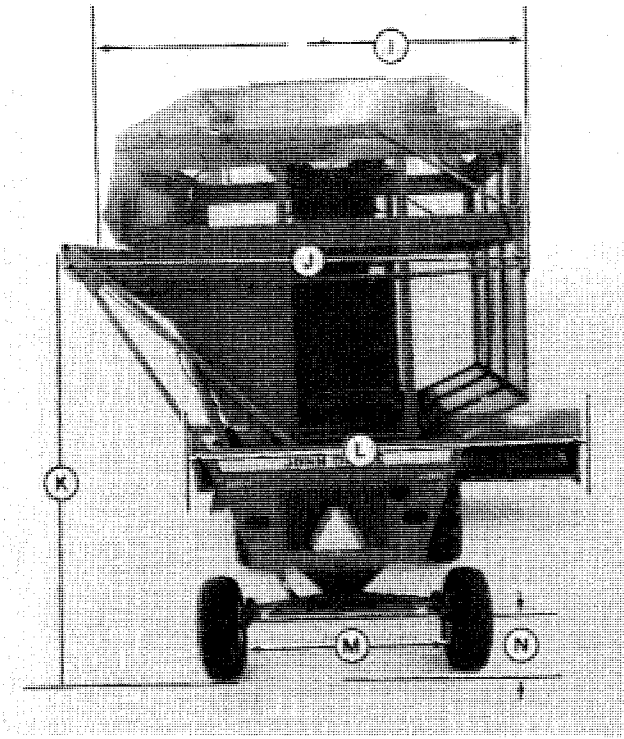
NXR,1282,1010,D-19-24MAR94

DIMENSIONS - 7445



N85190F2 -UN-28SEP88

A—4699 mm (185 in.)
B—3658 mm (144 in.)
C—7671 mm (302 in.)
D—1295 mm (51 in.)
E—648 mm (25-1/2 in.)
F—902 mm (35-1/2 in.)
G—2235 mm (88 in.)
H—483 mm (19 in.)
I—3332 mm (131-3/16 in.)
J—3404 mm (134 in.)
K—3429 mm (135 in.)
L—3505 mm (138 in.)
Without Extension;
4013 mm (158 in.)
Short Cross Auger Extension;
4826 mm (190 in.)
Long Cross Auger Extension
M—1702 mm (67 in.) (P.I.N. -4000)
1854 mm (73 in.) (P.I.N. 4001-)
N—400 mm (15-3/4 in.) (P.I.N. -4000)
490 mm (19-5/16 in.) (P.I.N. 4001-)

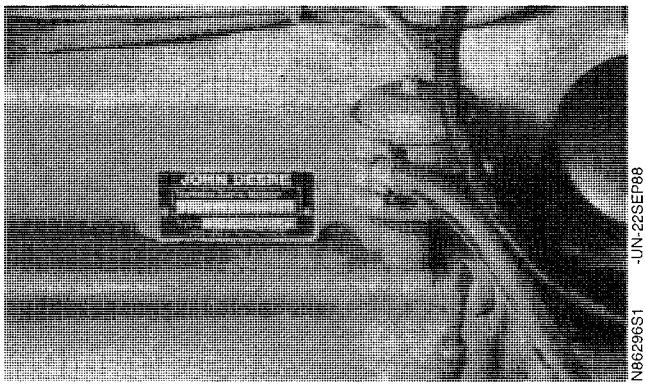


NXR,1282,1010,E-19-24MAY94

SERIAL NUMBERS

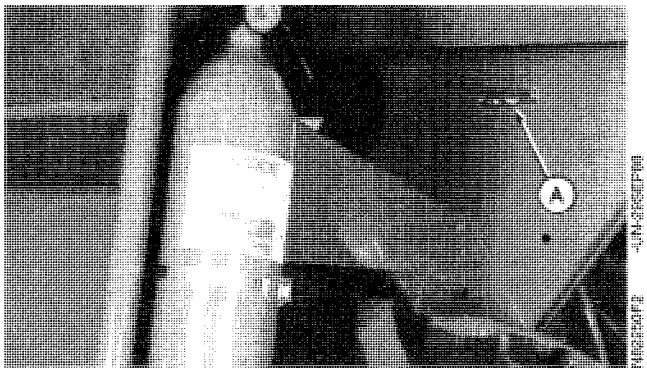
Use serial numbers in all correspondence with the factory on the following items.

The engine serial number is located on the left-hand side of engine block.



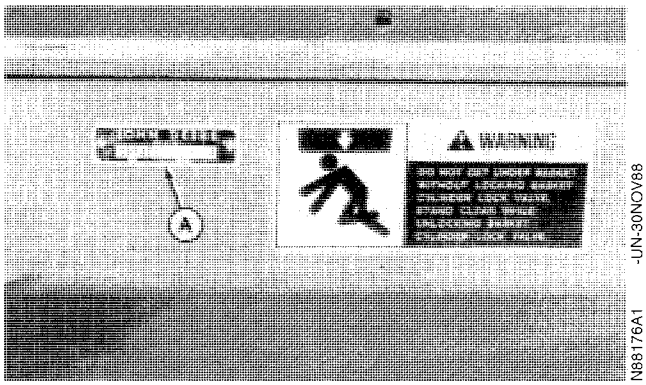
NXN,1005,BW -19-08APR92

On 7440 and 7445 Strippers (P.I.N. -6000), the machine product identification number (A) is located above the left-hand drive wheel on platform support.



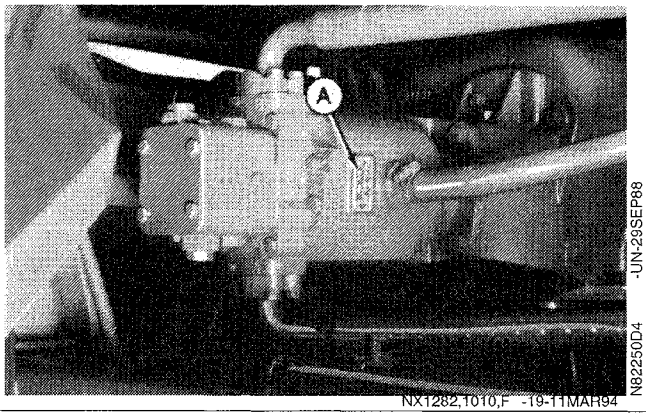
NX1282,1010,D -19-11MAR94

On 7445 Strippers (P.I.N. 6001-), the machine product identification number (A) is located on the left-hand side frame.



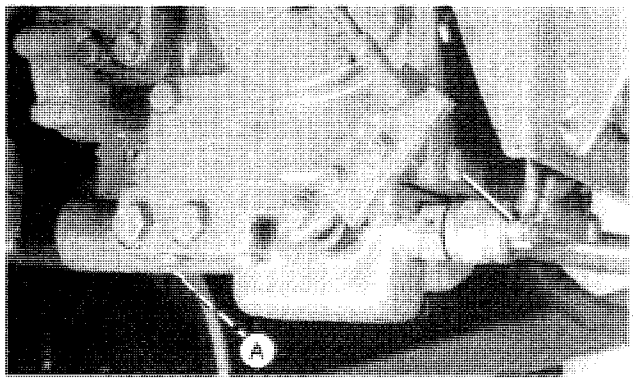
NX1282,1010,E -19-11MAR94

The EATON hydrostatic motor serial number (A) is located on rear of motor.



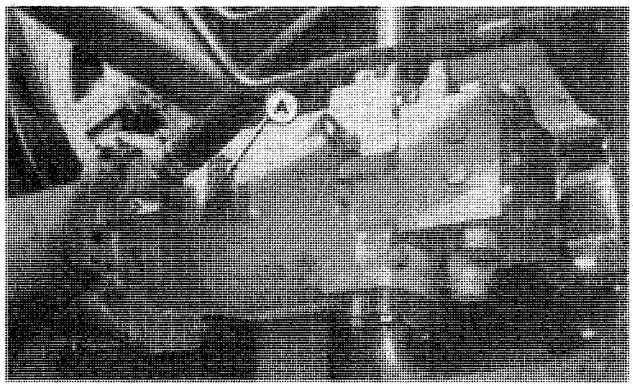
NX1282,1010,F -19-11MAR94

The EATON hydrostatic pump serial number (A) is located on bottom of the pump.



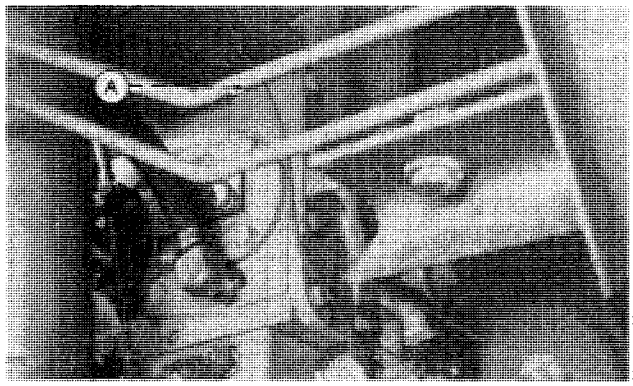
NX1282,1010,G -19-11MAR94

The SUNDSTRAND hydrostatic motor serial number (A) is located on front side of motor.



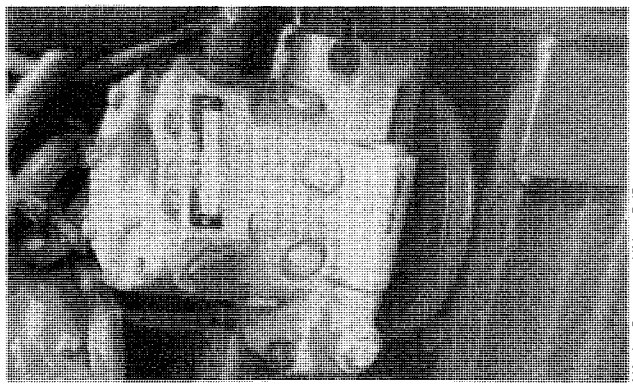
NX1282,1010,H -19-11MAR94

The SUNDSTRAND hydrostatic pump serial number (A) is located on top of pump.



NX1282,1010,I -19-11MAR94

The hydraulic pump serial number is located on the left-hand side of pump.



NXR,1282,1010,J-19-14MAY92