

**John Deere
710C
Backhoe Loader
Repair**



TECHNICAL MANUAL

TM-1451 (Dec-88)

LITHO IN U.S.A.

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 types 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 technicals manuals are written as stand-alone manuals covering multiple machine applications.

710C BACKHOE LOADER TECHNICAL MANUAL TM-1451 (DEC-88)

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NOTE: This manual covers machine repair. For Operation and Test information, see TM-1450.

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T64;1451 K1 020288

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**Thanks very much for your reading,
Want to get more information,
Please click here, Then get the complete
manual**

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NOTE:

**If there is no response to click on the link above,
please download the PDF document first, and then
click on it.**

**Have any questions please write to me:
admin@servicemanualperfect.com**

HANDLE FLUIDS SAFELY—AVOID FIRES

When you work around fuel, do not smoke or work near heaters or other fire hazards.

Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; they can ignite and burn spontaneously.



AB6;TS227 053;FLAME 050188

PREVENT BATTERY EXPLOSIONS

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

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

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



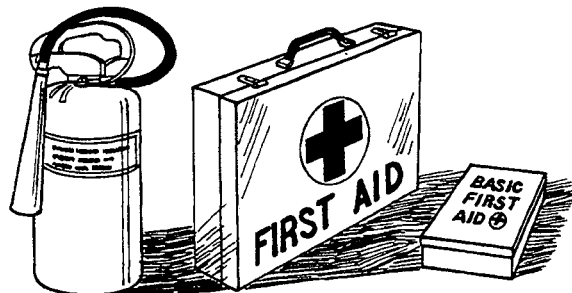
AB6;TS204 053;SPARKS 280688

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

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



AB6;TS186 053;FIRE2 080785

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:

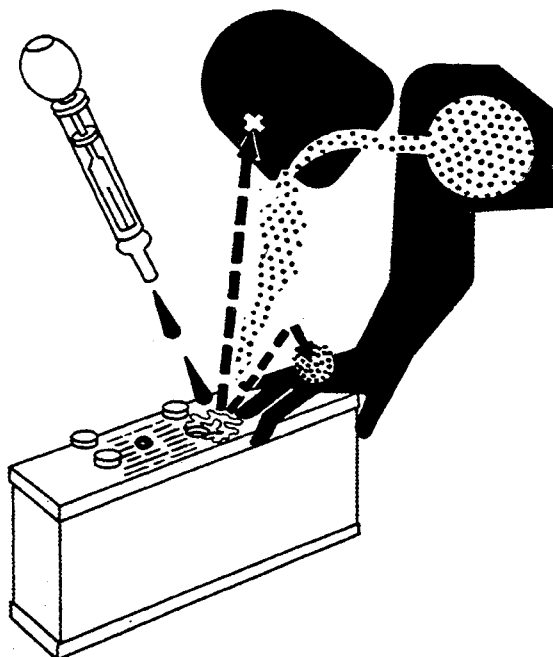
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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.



AB6;TS203 053;POISON 211287

AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before unhooking hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard to search for leaks.

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

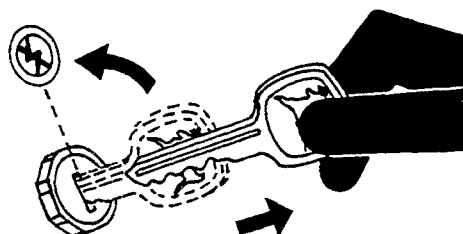


AB6;X9811 053;FLUID 180987

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.



AB6;TS230 053;PARK 050188

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.



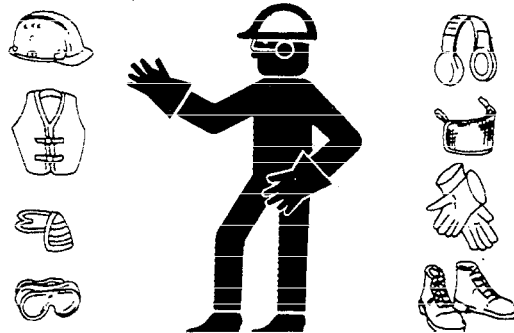
AB6;TS229 053;LOWER 211287

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.

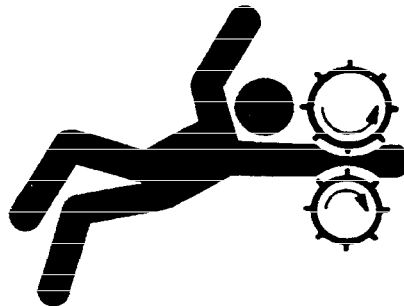


AB6;TS206 053;WEAR 230487

SERVICE MACHINE 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.

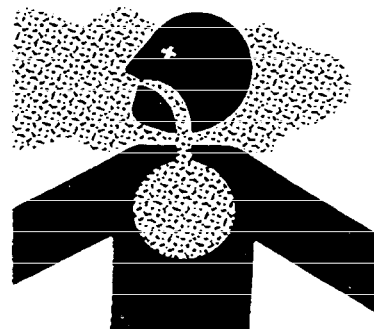


AB6;TS228 053;LOOSE 211287

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.



AB6;TS220 053;AIR 050188

UNDERSTAND CORRECT SERVICE

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.

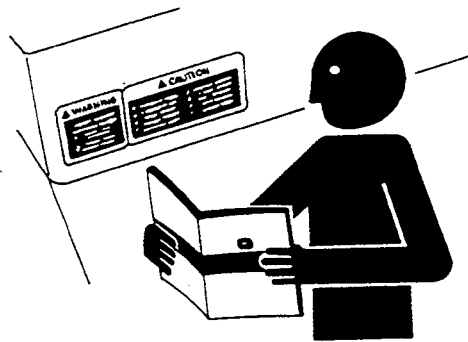
Catch draining fuel, oil, or other fluids in suitable containers. Do not use food or beverage containers that may mislead someone into drinking from them. Wipe up spills at once.



AB6;TS223 053;LIGHT 230288

REPLACE SAFETY SIGNS

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

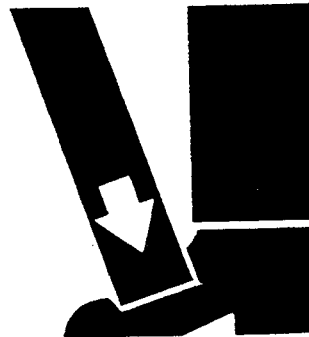


AB6;TS201 053;SIGNS1 221287

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.

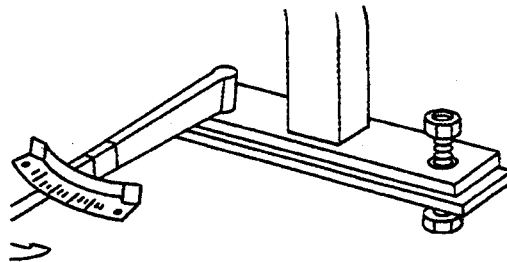


AB6;TS226 053;LIFT 050188

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.



AB6;TS212 053;ROPS3 230487

SERVICE TIRES SAFELY

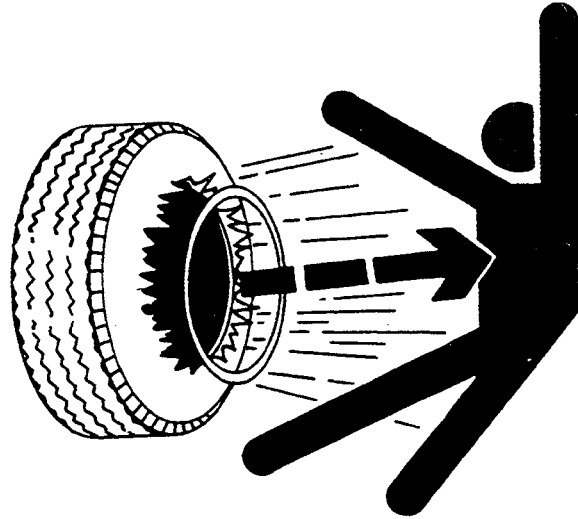
Explosive separation of a tire and rim parts can cause serious injury or death.

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.

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.



AB6;TS211 053;RIM 211287

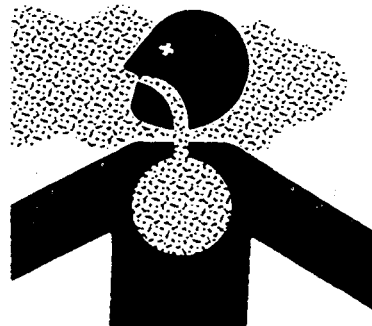
AVOID HARMFUL ASBESTOS DUST

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

Components in John Deere 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 of asbestos containing materials. When servicing, wear an approved respirator. A special vacuum cleaner is recommended to clean asbestos. If not available, wet the asbestos containing materials with a mist of oil or water.

Keep bystanders away from the area.

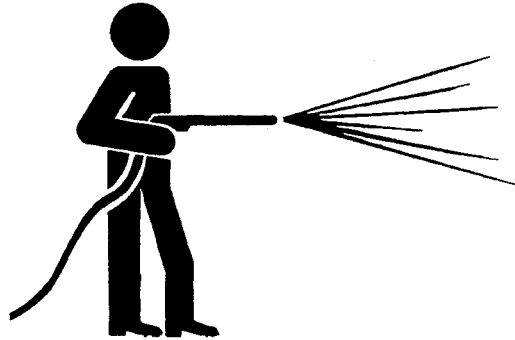


AB6;TS220 053;DUST 140488

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.



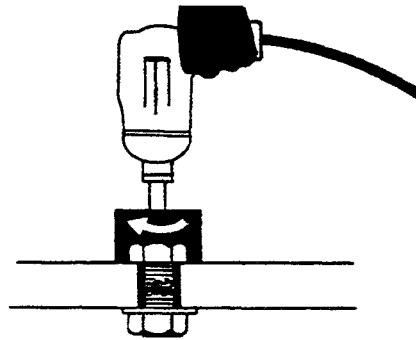
AB6;T6642E J 053;CLEAN 190188

USE TOOLS PROPERLY

Use tools appropriate to the work. Makeshift tools, parts, and procedures will not make good repairs.

Use pneumatic and electric tools only to loosen threaded parts and fasteners. Never use such tools to tighten fasteners, especially on light alloy parts.

Use only replacement parts meeting John Deere specifications.

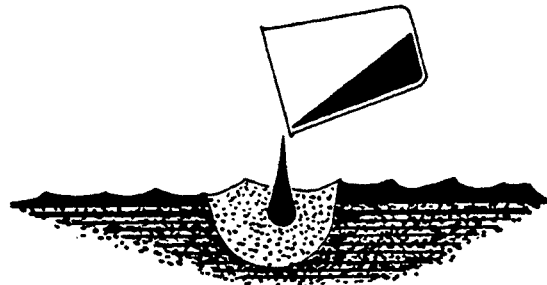


AB6;TS221 053;REPAIR 211287

DISPOSE FLUIDS PROPERLY

Be mindful of the environment and ecology. Before you drain fluids, find out the proper way to dispose of the oil.

Do not pour oil onto the ground, down a drain, or into a stream, pond, or lake. Consult local ordinances that govern the disposal of wastes.



AB6;TS222 053;DRAIN 211287

LIVE WITH SAFETY

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



AB6;TS231 053;LIVE 050188

Group II General Specifications

(Specifications and design subject of change without notice. Wherever applicable, specifications are in accordance with ICED and SAE Standards. Except where otherwise noted, these specifications are based on a standard machine with 21L-24, 16PR, R4 rear tires; 14.5/75-16.1, 10PR, F3 front tires with 75 percent CaCl₂ fill; 1.5-cu.-yd. (1.15 m³) loader bucket; 24-in. (610 mm) backhoe bucket; ROPS/FOPS; full fuel tank and 175-lb. (79 kg) operator).

Power

(@ 2200 engine rpm):

	SAE	DIN
Net	115 hp (86 kW)	115 hp (86 kW)

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 70 020, using No. 2-D fuel @ 35 API gravity. No derating is required up to 10,000 feet (3050 m) altitude. Gross power is without cooling fan.

Engine: John Deere 6-cylinder turbocharged diesel, 4-stroke cycle

Bore and stroke 4.19 x 4.33 in.

(106.5 x 110 mm)

Displacement 359 cu. in.

(5.884 L)

Compression ratio 17.8 to 1

Maximum torque @ 1400 rpm 316 lb-ft

(428 N·m)

Main bearings 7

Lubrication Pressure system w/full-flow

filter and cooler

Fan Suction

Air cleaner Dry

Electrical system 12-volt

Alternator 65 amps

Transmission:

Full power shift, 4 speeds forward, 2 reverse. Modulated, full power shift between forward and reverse. Direction selector lever left of steering wheel. Single speed-change lever in right console.

Travel Speeds:

	Forward		Reverse		
	Gear	mph	km/h	mph	km/h
With Standard	1	3.1	5.0	3.4	5.4
21L-24 rear	2	5.4	8.7	6.0	9.6
and 14.5/75-16.1	3	11.1	17.9		
front tires	4	19.0	30.6		

With MFWD and	1	3.4	5.5	3.7	6.0
21L-28 (required)	2	6.0	9.6	6.6	10.6
rear and 15-19.5	3	12.3	19.8		
front tires	4	21.0	33.9		

Final Drives Planetary, inboard

Brakes Hydraulic, power actuated, fully enclosed wet disk.

Foot-operated individually or simultaneously, self-equalizing.

Steering: Hydrostatic power

Turning radius (brake applied) 14 ft. 2 in. (4.32 m)

Clearance circle 37 ft. 4 in. (11.40 m)

Steering wheel turns, left to right 3.0

right to left 3.8

Hydraulic System: Closed center (variable flow, constant pressure)

Pressure 2550 psi (17 500 kPa)

Main Pump 16 radial pistons, variable flow

Flow @ 2200 psi (15 170 kPa) 53 gpm

(201 L/min)

Charge Pump

flow @ fast idle (minimum) 64 L/min (17 gpm)

Filter, return oil 10 micron steel enclosed, replaceable

paper element

Screen, pressure oil 50/in. (20/cm) mesh

Hydraulic Cylinders:

	Bore	Stroke	Rod
Loader boom (2)	3.94 in.	34.3 in.	2.20 in.
	(100 mm)	(870 mm)	(56 mm)
Loader bucket (1)	4.52 in.	32.2 in.	2.20 in.
	(115 mm)	(817 mm)	(56 mm)
Backhoe boom (1)	6.30 in.	44.4 in.	3.15 in.
	(160 mm)	(1127 mm)	(80 mm)
Backhoe crowd (1)	5.51 in.	35.4 in.	2.76 in.
	(140 mm)	(898 mm)	(70 mm)
Backhoe bucket (1)	3.94 in.	37.5 in.	2.48 in.
	(100 mm)	(952 mm)	(63 mm)
Backhoe swing (2)	4.5 in.	9.9 in.	2.25 in.
	(115 mm)	(251 mm)	(57 mm)

Wheel Treads:

Front 72 in. (1830 mm)

Rear 68 in. (1730 mm)

MFWD—Front 77 in. (1955 mm)

Rear 68 in. (1730 mm)

Wheelbase 94 in. (2400 mm)

MFWD 96 in. (2440 mm)

Axle Ratings: (SAE J43)

Front 12,500 lb. (5670 kg)

Rear 19,400 lb. (8800 kg)

General Specifications

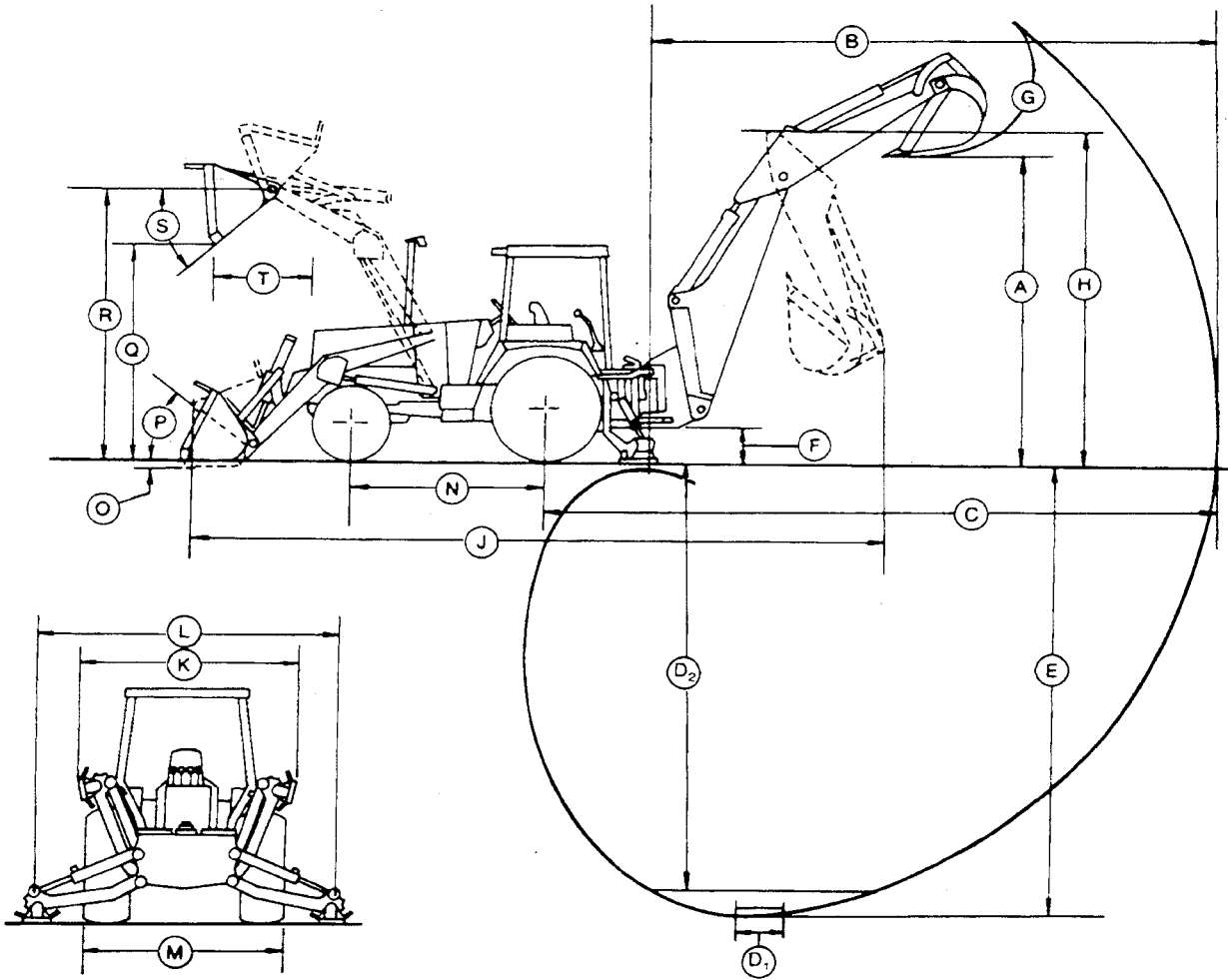
Buckets					Transporting:
		Width	Heaped Capacity		
Loader:	In.	(mm)	Cu. Yd.	(m ³)	
	92	(2340)	1.5	(1.15)	
	96	(2440)	1.75	(1.34)	
					SAE operating weight with ROPS 22 500 lb (10 200 kg)
Backhoe:			Cu. Yd.	(m ³)	
	18	(457)	7.7	(.22)	
	24	(610)	11.1	(.31)	
	30	(762)	15.0	(.42)	
	36	(914)	18.8	(.53)	

05T;115 M74 031068

Drain and Refill Capacities:		
	U.S.	Metric
Engine coolant	28 qt	26 L
Engine oil (including filter)	20 qt	19 L
Transmission	6 gal	23 L
Transmission (with MFWD) transfer case	7.5 gal	29 L
Hydraulic Reservoir	14.5 gal	55 L
Fuel tank		
Main	16 gal	60 L
Auxiliary	22 gal	83 L
Front axle (MFWD)	13 qt	12 L
Front wheel planetary (MFWD)	1.1 qt	1.0 L
Rear axle	18 qt	17 L

05T;115 M75 020289

General Specifications



071:T6245AF1 05T:115 M76 051088

General Specifications

710C BACKHOE LOADER

Key:	Backhoe	Extendible Dipperstick	
		Retracted	Extended
A. Loading height, truck loading position	13 ft. 2 in. (4.01 m)	12 ft. 11 in. (3.94 m)	15 ft. 0 in. (4.57 m)
B. Reach from center of swing mast	22 ft. 8 in. (6.90 m)	22 ft. 4 in. (6.81 m)	27 ft. 1 in. (8.26 m)
C. Reach from center of rear axle	26 ft. 9 in. (9.15 m)	26 ft. 6 in. (9.08 m)	31 ft. 2 in. (9.50 m)
D. Digging depth (SAE):			
(1) 2 ft. (610 mm) flat bottom	17 ft. 10 in. (5.45 m)	17 ft. 9 in. (5.41 m)	22 ft. 0 in. (6.71 m)
(2) 8 ft. (2440 mm) flat bottom	17 ft. 0 in. (5.18 m)	17 ft. 9 in. (5.41 m)	22 ft. 8 in. (6.91 m)
E. Maximum digging depth	18 ft. 0 in. (5.49 m)	17 ft. 10 in. (5.44 m)	22 ft. 9 in. (6.93 m)
F. Ground clearance, minimum	14 in. (356 mm)	14 in. (356 mm)	14 in. (356 mm)
G. Bucket rotation	149°/159°	149°/159°	149°/159°
H. Transport height	13 ft. 9 in. (4.20 m)	13 ft. 9 in. (4.20 m)	13 ft. 9 in. (4.20 m)
J. Overall length, transport	26 ft. 7.9 in. (8.13 m)	26 ft. 7.9 in. (8.13 m)	26 ft. 7.9 in. (8.13 m)
K. Stabilizer width—transport	8 ft. (2.44 m)	8 ft. (2.44 m)	8 ft. (2.44 m)
L. Stabilizer spread—operating	11 ft. 5 in. (3.48 m)	11 ft. 5 in. (3.48 m)	11 ft. 5 in. (3.48 m)
M. Overall width (less loader bucket)	88 in. (2235 mm)	88 in. (2235 mm)	88 in. (2235 mm)
Digging force, bucket cylinder (power dig position)	13,500 lb (60 kN) (6120 kg)	13,500 lb (60 kN) (6120 kg)	13,500 lb (60 kN) (6120 kg)
Digging force, crowd cylinder	9,600 lb (42.7 kN) (4355 kg)	9,600 lb (42.7 kN) (4355 kg)	6,700 lb (29.8 kN) (3040 kg)
Swing arc	180°	180°	180°
Operator control	Two levers	Right foot treadle	Right foot treadle
Bucket positions	0 or 3° rollback	0 or 3° rollback	0 or 3° rollback
Stabilizer angle rearward	13°	13°	13°
Lifting capacity, maximum boom @ 65°	7300 lb (3300 kg)	6300 lb (2650 kg)	3300 lb (1500 kg)
Leveling angle	13°	13°	13°

NOTE: Backhoe specifications are with 24 in. (610 mm) standard-duty bucket.

Key:	Loader With	Loader With
	1.5 yd ³ (1.15 m ³) Bucket	1.7 yd ³ (1.3 m) Bucket and MFWD
N. Wheelbase	94 in. (2390 mm)	96 in. (2440 mm)
O. Dig below ground—bucket level	4 in. (100 mm)	2 in. (50 mm)
P. Rollback at ground level	40°	40°
Q. Dump clearance, bucket at 40°	9 ft. 7 in. (2.92 m)	9 ft. 7 in. (2.92 m)
R. Maximum height to bucket hinge pin	11 ft. 10 in. (3.61 m)	12 ft. 0 in. (3.65 m)
S. Maximum bucket dump angle	40°	40°
T. Reach at full height, bucket at 40°	29 in. (737 mm)	31 in. (799 mm)

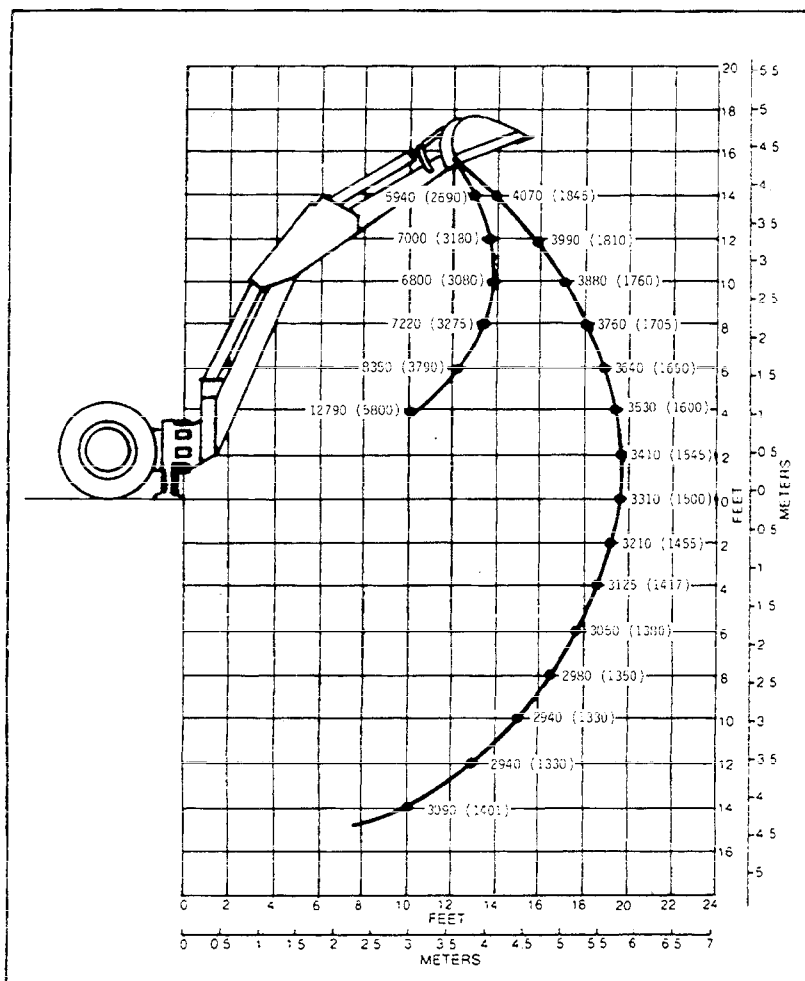
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710C BACKHOE LOADER LIFTING CAPACITIES

Lifting capacity ratings are made from bucket hinge pin, loader bucket and stabilizers on firm, level ground. Lifting capacities are 87 percent of the maximum lift over any point on the swing arc and do not exceed 75 percent of the tipping load. Angle between boom and ground is 65 degrees. Machine is equipped with 24 in. (610 mm) standard bucket, standard or extendible dipperstick and standard equipment.

NOTE: Loader bucket on ground significantly improves side stability, therefore improving lift capacity to the side. Lift capacity over the rear is not affected.

Lift Capacity Backhoe with Standard Dipperstick Based on SAE J31

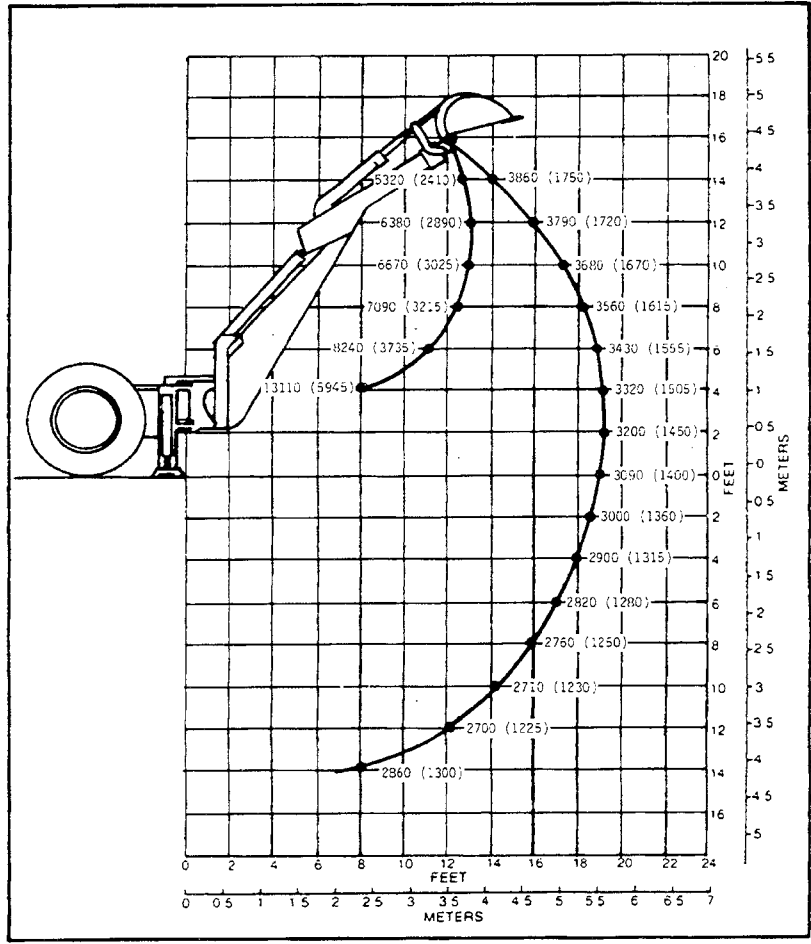


Rated Lift Capacities are in lb (kg)
Lift Capacities are Hydraulically Limited

071;T6892AH 05T;115 M78 280988

General Specifications

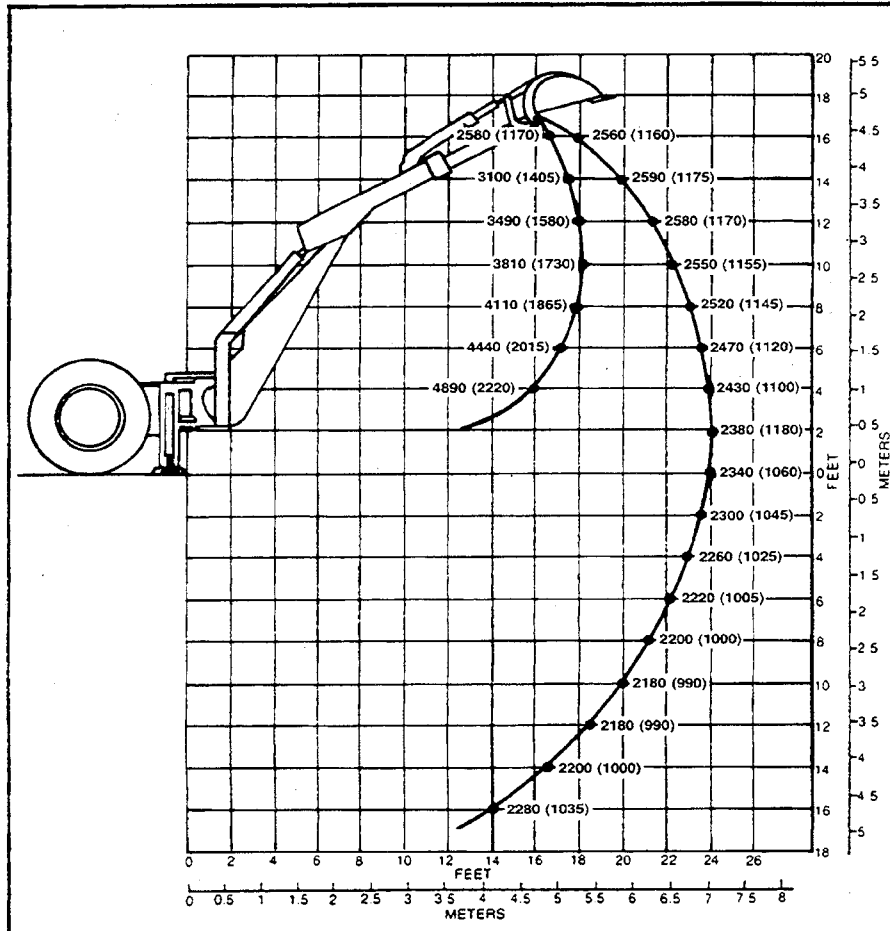
Lift Capacity
Backhoe with Extendible Dipperstick, Extended
Based on SAE J31



Rated Lift Capacities are in lb (kg)
 Lift Capacities are Hydraulically Limited

071;T6892AI 05T;115 M84 290988

**Lift Capacity
Backhoe with Extendible Dipperstick, Retracted
Based on SAE J31**



*Rated Lift Capacities are in lb (kg)
Lift Capacities are Hydraulically Limited*

071;T6892AJ 05T;115 M85 290988

General Specifications

HARDWARE TORQUE SPECIFICATIONS

Check cap screws and nuts to be sure they are tight. If hardware is loose, tighten to torque shown on the following charts unless a special torque is specified.

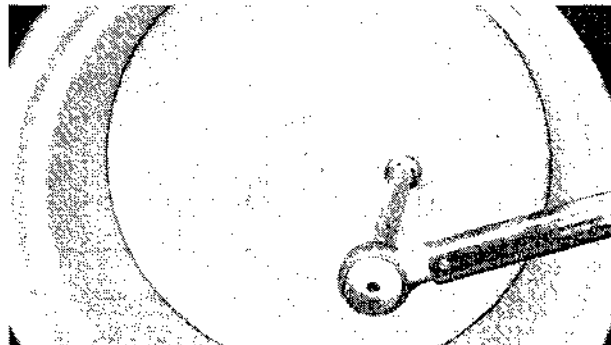
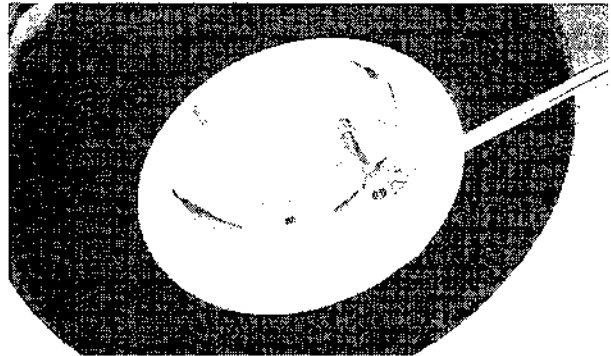
T82:SKMA AT 270286

CHECK WHEEL CAP SCREW TORQUE

Tighten wheel cap screws.

Front:	N·m	(lb·ft)
14.5/75—16.1	230 + 35 - 41	(170 + 26 - 34)
15 x 19.5 (MFWD)	407 + 60 - 80	(300 + 45 - 60)

Rear	N·m	(lb·ft)
20.5 x 25	575 + 170 - 115	(425 + 125 - 85)
21 L x 24	575 + 170 - 115	(425 + 125 - 85)
21L x 28 (MFWD)	575 + 170 - 115	(425 + 125 - 85)



002:T6000AU, T67507 04T,90 M191 250988