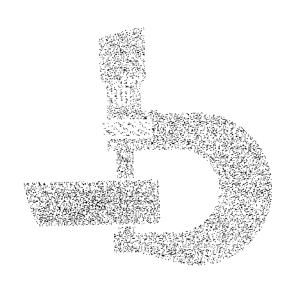
610B, 610C Backhoe Loaders Repair



TECHNICAL MANUAL

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.

Technicals 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.

053;TMIFC 190188

JOHN DEERE DEALERS

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

This is a complete revision for TM-1447 (Repair), 610B/610C Backhoe Loaders.

The new pages are dated (Mar-89). Listed below is a brief explanation of "WHAT" was changed and "WHY" it was changed.

This manual was revised:

- 1. Include APL 745 Mechanical Front Wheel Drive repair information.
- 2. Correct front wheel toe in specifications.
- 3. Miscellaneous revisions and updates.

T64;1447 DCS2 060389

Thanks very much for your reading,

Want to get more information,

Please click here, Then get the complete
manual



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

610B AND 610C BACKHOE LOADER TECHNICAL MANUAL TM-1447 (Mar-89)

SECTION AND GROUP CONTENTS

NOTE: This manual covers machine repair. For Operation and Test information, see TM-1446.

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Group I-Introduction and Safety Information

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Group III-Torque Valves

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Group V-Inspection Procedure

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Group 0210-Differential or Bevel Drive Gear

Group 0225-Input Drive Shafts and U-Joints

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Group 0417—Water Pump

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Group 0505-Cold Weather Starting Aids

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SECTION 09—STEERING SYSTEM

Group 0960—Hydraulic System Steering Valve and Cylinder

SECTION 10—SERVICE BRAKES

Group 1011—Active Elements Brake Disks and Control Linkage

Group 1060—Hydraulic System Brake Valve

All information, illustrations and specifications contained in this technical manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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Continued on next page

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SECTION 11—PARK BRAKES

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Group 1674—Wiring Harness and Switches Group 1675—System Controls

Group 1676-Instruments, Indicators and Senders

SECTION 17-FRAME, CHASSIS, OR SUPPORTING STRUCTURE

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SECTION 18—OPERATOR'S STATION

Group 1800—Removal and Installation Group 1810—Operator Enclosure Wiper Motor and Windshield Washer Group 1821—Seat and Seat Belt Group 1830—Heating and Air Conditioning

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T64;1447 J2 150388

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053;TMIFC 100388

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).



ABT;TS204 053;SPARKS 050188

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:

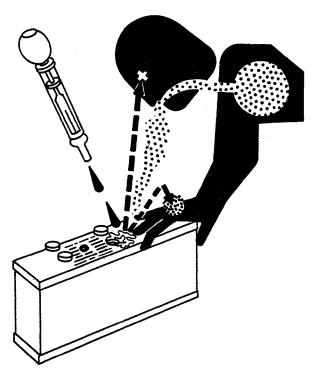
- 1. Filling batteries in a well-ventilated area.
- 2. Wearing eye protection and rubber gloves.
- 3. Avoiding breathing fumes when electrolyte is added.
- 4. Avoiding spilling or dripping electrolyte.
- 5. Use proper jump start procedure.

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.

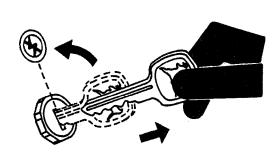


AB6;X9811 053;FLUID 180987

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.

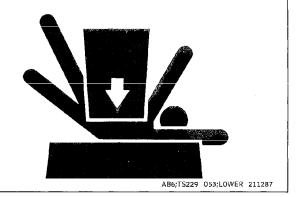


AB6;TS230 053;PARK 050188

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.

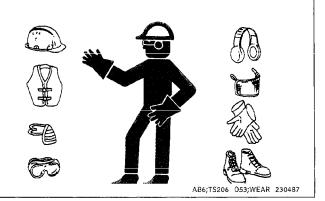


WEAR PROTECTIVE CLOTHING

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

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

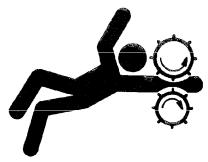
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



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.

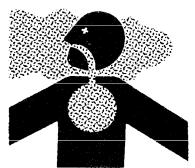


AB6;TS228 053;L00SE 211287

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.

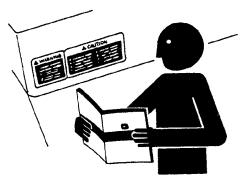
Catch draining fuel, oil, or other fluids in suitable containers. Do not use food or beverage containers that may mislead someone into drinking from them. Wipe up spills at once.



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.

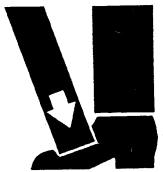


AB6;TS201 053;SIGNS1 221287

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.

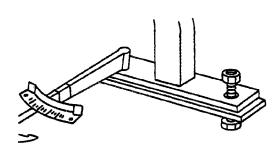


B6;TS226 053;LIFT 050188

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;R0PS3 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

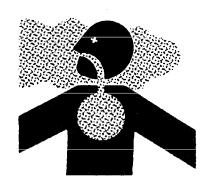
AVOID HARMFUL ASBESTOS DUST

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.

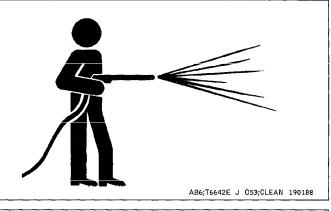


AB6;TS220 053;DUST 050188

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.

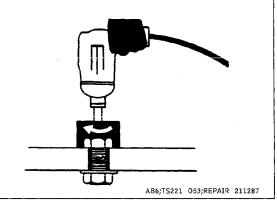


USE TOOLS PROPERLY

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.

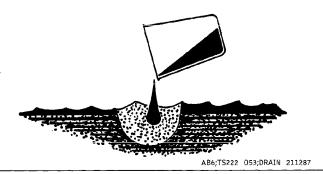
Use only replacement parts meeting John Deere specifications.



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.



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

Introduction and Safety

610B BACKHOE LOADER

(Specifications and design subject to 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 19.5L-24, 12 PR, R4 rear tires; 11L-16, 12PR, F3 front tires: 1.3 cu.-yd. (1.0 m³) loader bucket; 24-in. (610 mm) high capacity backhoe bucket; ROPS/FOPS; full fuel tank and 175-lb. (79 kg) operator).

Power (@ 2200 engine rpm) Gross Net		DIN 81 hp (60 kW)
cleaner, water pump, I muffler. Gross engine are under SAE standa 85°F (29.5°C) temper	lubricating oil pump, fue power is without fan. ard conditions of 500-l	equipped with fan, air el pump, alternator, and Flyweel power ratings ft. (150 m) altitude and standard conditions of temperature.
		in head 4-stroke cycle 4.19 x 5.00 in. (106 x 127 mm)
Displacement		
Main bearings		
Cooling	Pressur	ized w/thermostat and fixed bypass
Air Cleaner Electrical system		
shift between forwar	rd and reverse in first ver left of steering whee	e. Modulated, full power st thru fourth speeds. el. Single speed-change
Travel Creede	Eamword	Boyeres

Travel Speeds:		Fo	orward	Reverse			
		mph	km/h	mph	km/h		
Gear	1	1.8	2.9	2.2	3.5		
	2	2.5	4.0	3.1	5.0		
	3	3.9	6.3	4.8	7.7		
	4	5.1	8.2	6.2	10.0		
	5	6.6	10.6				
	6	8.5	13.7				
	7	11.2	18.0				
	8	18.8	30.3				

Final Drives Planetary, inboard

Service Brakes:

Manual hydraulic, applied with separate pedals; hydraulically equalized when both pedals are depressed. Wet disks and facings are fully enclosed and self-adjusting.

Steering: Hydrostatic Po Turning radius (brake a Clearance circle Steering wheel turns, le rig Hydraulic System: Closed	applied) eft to right th to left	29 fi	6 in. (9 m) 2.9 3.9
Pressure	8 r	2500 psi (adial pistons, v	17 238 kPa) ⁄ariable flow
Filter, return oil	. 10 micron s	teel enclosed,	
Screen, pressure oil		50/in. (2	
Hydraulic Cylinders:	Bore	Stroke	Rod
Loader boom (2)	3.5 in.	30.0 in.	1.75 in.
	(89 mm)	(762 mm)	(44 mm)
Loader bucket (1)	4.0 in.	24.4 in.	2.0 in.
200001 2201101 (1)	(102 mm)	(620 mm)	(51 mm)
Backhoe boom (1)	5,0 in.	42.7 in.	2.5 in.
240	(127 mm)	(1085 mm)	(64 mm)
Backhoe crowd (1)	4.5 in.	34.5 in.	2.25 in.
Buokinoo erowa (1)	(115 mm)	(876 mm)	(57 mm)
Backhoe bucket (1)	3.5 in.	27.4 in.	2.25 in.
Buomico Buomot (1)	(89 mm)	(696 mm)	(57 mm)
Backhoe swing (2)	4.0 in.	9.5 in.	2.0 in.
buokiloe swaig (2)	(102 mm)	(241 mm)	(51 mm)
Backhoe extendible dip-	(102 11111)	(271 11111)	(01 11111)
per (1)	2.5 in.	60 in.	1.25 in.
por (1)	(64 mm)	(1525 mm)	(32 mm)
Backhoe stabilizers (2) .	4.0 in.	20.3 in.	2.0 in.
Buokitoe stabilizora (2) .	(102 mm)	(516 mm)	(51 mm)
Steering (1) regular	(102 11111)	(o to min)	(31 11111)
axle	2.0 in.	9.5 in.	1.0 in.
and	(51 mm)	(241 mm)	(25.4 mm)
	(5) (((()))	(24) 11111)	(20.4 11111)
Tires:			
Front		11-1	6. 12PR, F3
		14.5/75-16.	
			.5, 8 PR, F3
Rear			8, 12PR, R4
			4, 12PR, R4
		21L-2	4, 10PR, R4
Wheel Treads:			
Front		68 in	. (1730 mm)
Rear		66 in	. (1675 mm)
Wheelbase	• • • • • • • • • • • • • • • • • • • •	83 in	. (2110 mm)
Axie Ratings: (SAE J43)			
Front		10.500	b. (4763 ka)
Rear			
			(0.00 118)

06T;115 J6 040388

OPERATING INFORMATION—610B

BACKHOE:
Operator control Two levers
Digging depth (ICED):
Maximum
2-ft. (610 mm) flat bottom 16 ft. 1 in. (4.90 m)
8-ft. (2440 mm) flat bottom . 15 ft. 5 in. (4.60 m)
Swing arc
Boom lifting, dipper extended 2500 lb. (1135 kg)
Dipper lifting, boom @ 65° 5000 lb. (2270 kg)
Digging force:
Bucket cylinder in power-dig
position 9800 lb. (43.6 kN)
Crowd cylinder
Reach:
From center of swing mast . 19 ft. 9 in. (6.02 m)
From center of rear axle 23 ft. 7 in. (7.10 m)
Loading height, truck loading position
Transport height
Bucket rotation Adjustable for 123, 127 or 155
degrees
Bucket positions 12 to 20 degrees rollback
or 6 degrees forward
· ·
EXTENDIBLE DIPPERSTICK OPTION:
EXTENDIBLE DIPPERSTICK OPTION: Operator control
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LOADER:
Operator control

Operator control		Sing	gie i	ever
Rollback @ ground level			40	deg.
Breakout force	9,200	lb.	(41	kÑ)
Digging depth below ground,				

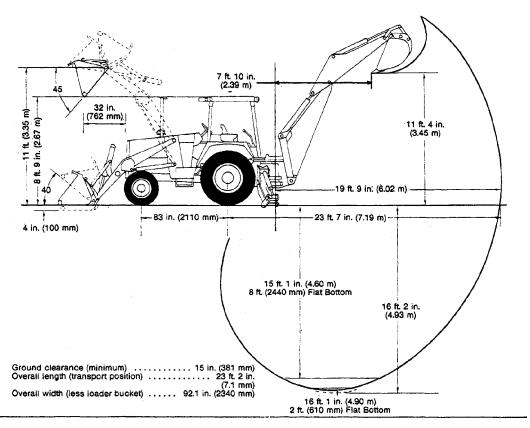
Reach at full height, bucket @ 45 degrees ... 30 in. (762 mm)

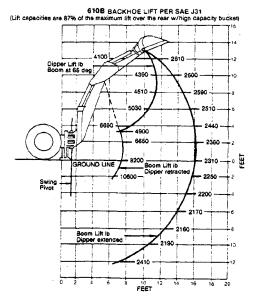
BUCKETS

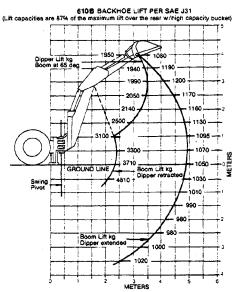
	•••			uck	Hea	
	•		city	Capa		
Loader:	ln.	(mm)	Cu. Ft.	(m³)	Cu. Yd.	(m³)
	92	(2340)			1.3	(1.00)
Backhoe:					Cu. Ft.	(m³)
Standard						
duty	12	(305)	2.6	(0.07	3.0	(0.08)
	16	(406)	3.7	(0.10)	4.5	(0.13)
	18	(457)	4.2	(0.12)	5.1	(0.14)
	24	(610)	5.9	(0.17)	7.5	(0.21)
	30	(762)	7.5	(0.21)	10.0	(0.28)
	36	(914)	7.5	(0.21)	10.0	(0.28)
Heavy duty	18	(457)	4.2	(0.12)	5.1	(0.14)
	24	(610)	5.9	(0.17)	7.5	(0.21)
	30	(762)	7.5	(0.21)	10.0	(0.28)
High						
capacity	24	(610)	7.2	(0.20)	8.8	(0.25)
	36	(914)	11.2	(0.32)	14.5	(0.41)
Ejector	24	(610)	4.6	(0.13)	5.7	(0.16)
CAPACITIES:				U.S	. М	etric
Engine coolan	t			17 g		6.1L
Engine oil incli						8.5L
Transmission a	•			20 ga		76L
Fuel tank	-			23 ga		7.1L
Rear axle				18 q		7.1L
rical axic				10 4		176
TRANSPORTI	NG:					
SAE operating	weiaht	with ROI	s		7	440 ka.
-: -= -p						400 lb.)
					,,	.,

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610B BACKHOE LOADER







63A;T96260 05T;115 M39 070388

610C BACKHOE LOADER

(Specifications and design subject to 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 19.5L-24, 12PR, R4 rear tires; 11L-16, 12PR, F3 front tires; 1.3 cu.-yd. (1.03 m³) loader bucket; 24-in. (610 mm) high capacity backhoe bucket; ROPS; full fuel tank and 175-lb. (79 kg) operator).

Power					Service Brakes:			
			_		Manual hydraulic, applied	with separate	pedals; hydrau	lically equal-
(@ 2200 engine		SAE		DIN	ized when both pedals are	•		
Net	• • • • • • • • • • • • • • • • • • • •	95 hp (71 k	(W) 102	2 hp (75 kW)	enclosed and self-adjusting	ıg.		
Engine:					Steering: Hydrostatic Po	ower		
John Deere turb cycle	ocharged	4-cylinder die	esel, valve	in head 4-stroke	Turning radius (brake app	lied)		
•	1			. 4.19 x 5.00 in.	Clearance circle			, ,
				(106 x 127 mm)	Steering wheel turns, left	to right ((7342	-734227) 28-)	2.9 2.2
Displacement					righ	t to left (-734227)	
				(4.524 L)		(7342	•	2.9
Compression ra						•	•	
Maximum torque	e @ 1300	rpm		284 lb-ft	Hydraulic System: Close	d center (varia	ble flow, consta	ınt pressure)
Main bearings				(385 N·m)	Standby pressure	2755 ± 5	50 psi (19 000	± 345 kPa)
				5 stem w/full-flow	Pump		•	
Lubilcation		• • • • • • • • • • • • • • • • • • • •	ricasule ay	filter and cooler	Flow @ 2000 psi (13 790			
Cooling		Dr	securized w	thermostat and	Filter, return oil	10 micron s	steel enclosed,	
Cooming			JOOUNIEU W	fixed bypass			··	element
Fan				Suction	Screen, pressure oil		50/in. (2	U/cm) mesh
				Dry	Hadradia Odindara	Dava	Ohralia	Dad
				12-volt	Hydraulic Cylinders:	Bore	Stroke	Rod
•				51 amps	Loader boom (2)	3.54 in.	29.8 in.	1.77 in. (45 mm)
Later	unit			65 amps	Loader buoket (1)	(90 mm) 3.44 in.	(757 mm) 28.2 in.	4.97 in.
Flywheel teeth .				115	Loader bucket (1)	(100 mm)	(716 mm)	(50 mm)
					Backhoe boom (1)	5 in.	42.7 in.	2.5 in.
Transmission:					Dacknoe boom (1)	(127 mm)	(1085 mm)	(63.5 mm)
Full power shift,	8 speeds	forward, 4 re	verse. Modi	ulated, full power	Backhoe crowd (1)	4.53 in.	34.5 in.	2.48 in.
shift between for	orward an	d reverse in	first throug	h fourth speeds.		(115 mm)	(876 mm)	(63 mm)
				g wheel. Single	Backhoe bucket (1)	3.54 in.	31.0 in.	1,97 in.
	_	it console. Re	verse speed	is are 22% faster		(90 mm)	(787 mm)	(50 mm)
than forward sp	eeds.				Backhoe swing (2)	4.0 in.	9.5 in.	2.0 in.
T 0			_			(101.6 mm)	(241 mm)	(50.8 mm)
Travel Speeds:		orward		everse	Backhoe extendible			
Without	mph	km/h	mph	km/h	dipper (1)	2.5 in.	60 in.	1.25 in.
MFWD						(64 mm)	(1525 mm)	(32 mm)
Gear 1	1.8	2.9	2.2	3.5	Backhoe stabilizers (2) .	4.0 in.	20.3 in.	2.0 in.
2	2.5	4.0	3.1	5.0		(102 mm)	(516 mm)	(51 mm)
3	3.9	6.3	4.8	7.7	Steering (1) regular			
4	5.0	8.1	6.1	9.8	axle	1.97 in.	9.5 in.	0.98 in.
,	010	•	57.	0.0		(50.0 mm)	(241 mm)	(25.0 mm)
With					Tiras			
MFWD					Tires:	OT upo with A4	EMD) 11 L	IS 10 DD 50
Gear 1	1.8	2.9	2.2	3.5	Front (DO NO		MFWD) 11 L x 1	
2	2.6	4.2	3.2	5.1	(DO NOT)) 14.5/75—16	
3	4.0	6.5	4.9	7.9	Rear (DO NO NO			
4	5.2	8.4	6.3	10.1	(DO NOT			
					(50 110)		FWD) 21 L x 2	
Mechanical Fro						, ******		
Engaged on-the	-go hydrai	ulically. Auton	natic self-lo	cking differential.	Wheel Treads:			
			_		Front (without MFWD)		68 in	. (1730 mm)
Final Drives		• • • • • • • • • • • • • • • • • • • •	Р	lanetary, inboard	(with MFWD)			
					Rear (without MFWD)		66 in	. (1675 mm)
					(with MFWD)		68 in	. (1730 mm)
							05T:115 M	138 040388
								0.0000

Specifications

Axle Rating Front Rear						
Buckets:			Strue	n le	Heap	ad
	w	idth	Capac		Сарас	
Loader:	In.	(mm)	Cu. Yd.		Cu. Yd.	
(Long Lip)	89.4	(2270)	1.05	(0.80)	1.25	(0.96)
(,	92	(2337)	0.88	(0.67)	1.0	(0.76)
	92	(2337)	1.07	(0.82)	1.3	(1.00)
Backhoe:	ln.	(mm)	Cu. Ft.	(m³)	Cu. Ft.	(m³)
Standard	12	(305)	2.6	(0.07)	3.0	(0.08)
	16	(406)	3.7	(0.10)	4.5	(0.13)
	18	(457)	4.2	(0.12)	5.1	(0.14)
	24	(610)	5.9	(0.17)	7.5	(0.21)
	30	(762)	7.5	(0.21)	10.0	(0.28)
	36	(914)	7.5	(0.21)	10.0	(0.28)
leavy duty	18	(457)	4.2	(0.12)	5.1	(0.14)
	24	(610)	5.9	(0.17)	7.5	(0.21)
	30	(762)	7.5	(0.21)	10.0	(0.28)
High	24	(610)	7.2	(0.20)	8.8	(0.25)
Capacity	38	(914)	11.2	(0.32)	14.5	(0.41)
Drain and	Refill C	Capacities	:			
				U.S.	Met	
Engine coo				14 qt	13	_
Engine coo					17	
Engine oil (a dr	8.5	L
Transmission (Without M				5.75 gal	22	Ī
without iv Transmissi	•			J./ J yal	22	L
(with MFV	-	-		7.25 gal	27	1
Fuel tank .	•			-	87	
Auxiliary fu					57	
Differential					17	
Front axle				7 at	6.5	
Front whee				-1-7		-
				4 44	1.0	

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