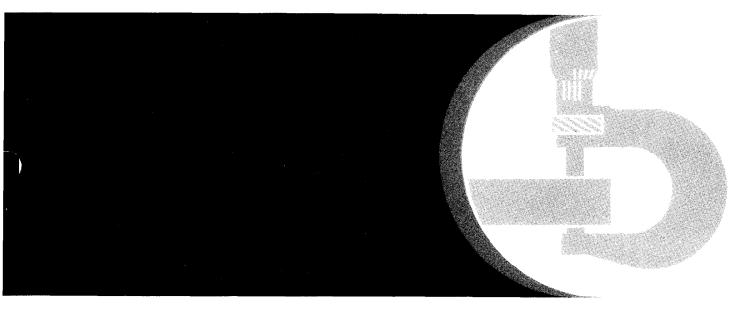
John Deere JD555 Crawler Loader





TECHNICAL MANUAL

John Deere Dubuque Works TM-1111



Litho in U.S.A.

I General Information

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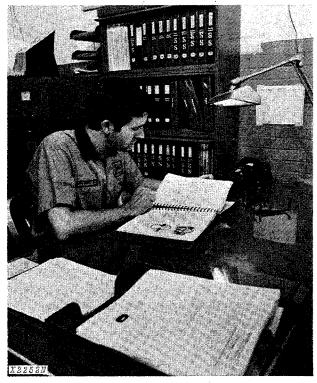
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II INDEX

Group II INTRODUCTION AND SAFETY INFORMATION INTRODUCTION



Use FOS Manuals for Reference

This technical manual is part of a twin concept of service:

The two kinds of manuals work as a team to give you both the general background and technical details of shop service.

•FOS Manuals—for reference

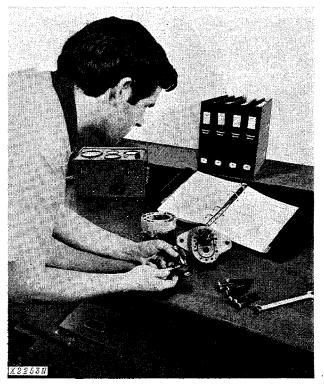
Fundamentals of Service (FOS) Manuals cover basic theory of operation, fundamentals of trouble shooting, general maintenance, and basic types of failures and their causes. FOS Manuals are for training new personnel and for reference by experienced service technicians.



When a service technician should refer to a FOS Manual for more information, a FOS symbol like the one at the left is used in the TM to identify the reterence.

•Technical Manuals—for actual service

Technical Manuals are concise service guides for a specific machine. Technical manuals are on-thejob guides containing only the vital information needed by an experienced mechanic.



Use Technical Manuals for Actual Service

This technical manual was planned and written for you—an experienced service technician. Keep it in a permanent binder in the shop where it is handy. Refer to it whenever in doubt about correct service procedures or specifications.

Some features of this manual:

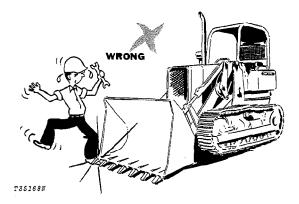
- Inside front cover "Table of Contents".
- Section I Contents, safety information, general specifications and general services.
- Sections 1 through 42 Removal, repair, testing (components removed), installation, and adjustment.
- Section 90 Detailed explanation of system operation, diagnosis, visual inspection, testing, and adjustments.
- Specifications grouped and illustrated at the end of each section.

1

MAINTENANCE WITHOUT ACCIDENT

Before servicing, adjusting, or repairing crawlers which have attachments such as buckets, etc.-LOWER attachments to the ground-or, if necessary to raise them for access to certain parts, SECURELY SUPPORT by external means. DO NOT rely on controls to support or position attachments for maintenance.

Never allow ANYONE to walk under equipment that is raised and not properly blocked.

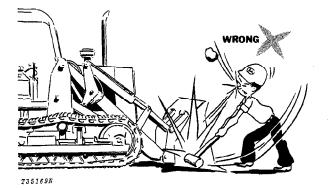


Avoid working directly under raised and blocked equipment unless absolutely necessary.

If the machine is on an incline, block it securely.

Use hoisting equipment for lifting heavy parts. TAKE CARE! WATCH OUT FOR OTHER PEOPLE IN THE VICINITY.

Use extreme caution in removing radiator caps, drain plugs, grease fittings, or hydraulic pressure caps.



Wear safety glasses when drilling, grinding, or hammering metal.

Make sure the maintenance area is adequately vented.

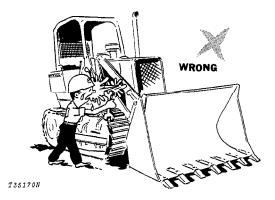
Keep maintenance area CLEAN AND DRY. Oily and wet floors are slippery; greasy rags are a fire hazard; wet spots are dangerous when working with electrical equipment.

Store starting aids in a cool and well-ventilated place, out of the reach of unauthorized personnel.

SERVICING PRECAUTIONS

Stop the engine before cleaning or lubricating the equipment.

Lower mounted equipment and tools to the ground carefully.



Engine coolant gets hot! Don't remove the radiator cap until coolant temperature is below the boiling point. Then turn cap slightly to relieve pressure before removing.

Exhaust gases are dangerous! Periodically check exhaust system for excessive leakage.

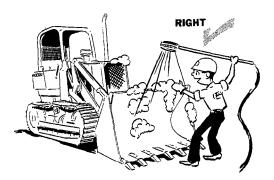
Don't forget a hydraulic system may be pressurized! To relieve pressure, shut off engine and move control levers until hydraulic functions do not respond.

When checking hydraulic pressure, be sure to use the correct test gauge for the pressure in the particular system.

MAINTENANCE WITHOUT ACCIDENT

Keep ALL equipment free of dirt and oil. This attention will minimize fire hazards and facilitate spotting of loose or defective parts.

When preparing engine for storage, remember that inhibitor is volatile and therefore dangerous. Seal and tape openings after adding the inhibitor. Keep container tightly closed when not in use.

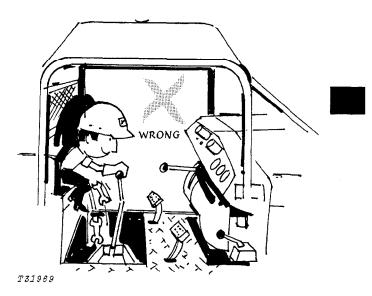


T35171N

ADJUSTING PRECAUTIONS

....for Operating Adjustments

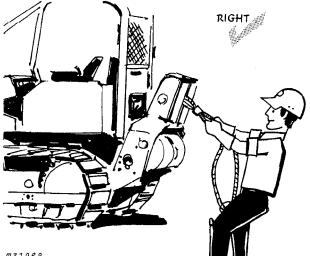
Keep clutch and brake control units properly adjusted at all times. Before making adjustments, stop engine.



Before removing any housing covers, stop engine. Take all objects from your pockets which could fall into the opened housings. Don't let adjusting wrenches fall into opened housings.

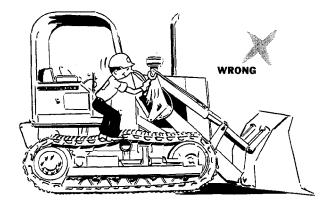
....for Maintenance Adjustments

Don't attempt to check belt tension while the engine is running.



T31968

Always Wear Gloves When Handling Cable.



T35172N

Don't adjust the fuel system while the machine is in motion.

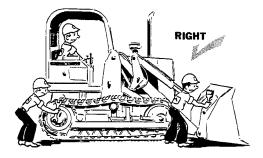
MAINTENANCE WITHOUT ACCIDENT

PRECAUTIONS DURING REPAIR

Before working on the engine fuel system-close fuel shutoff valve.

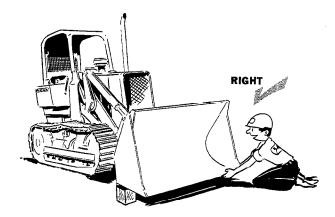
Before working on hydraulic system—make sure engine is not running and the system pressure is relieved by working the control levers in all directions with the engine shut off.

Before repairing the electrical system, or performing a major overhaul, make sure the batteries are disconnected.



T35173N

Keep all equipment free of dirt and oil. This attention will minimize fire hazards and facilitate spotting of loose or defective parts.



T35174N

When changing cutting edges on the bucket-

Stop the engine and securely block the bucket.

Never let your bare hands come in contact with the sharp edges. WEAR GLOVES.



MAINTENANCE WITHOUT ACCIDENT

KNOW EQUIPMENT IS READY!

Check guards, ROPS, safety bars-all protective devices installed on the crawler. Every one should be in place and secure.

CHECK IT OUT!

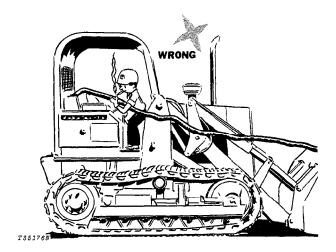
- □ GUARDS
- □ SHIELDS
- □ PROTECTIVE DEVICES
- □ ROLL-OVER PROTECTIVE STRUCTURES
- □ SEAT BELTS, ETC.



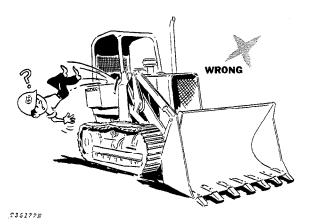
T35175N

Carefully inspect equipment for visual defectsleaks in fuel, lubrication, and hydraulic systems. Do not search for pressurized fluid leaks with your hands. Use cardboard or wood to search for leaks.

Check and secure all caps and filler plugs for fuel, oils, radiator, etc.



Check levels of fuel, coolant, hydraulic fluid, and lubricating oil. If fuel must be added—FIRST, PUT OUT THAT CIGARET.



Be sure to clean any oil, grease or mud accumulation from floor of operator's compartment, stepping points, and grab rails to minimize the danger of slipping.

In freezing weather beware of snow or ice deposits on stepping points, grab rails, and floor.

Remove loose bolts, tools, or other objects from floor of operator's compartment.

Although it is impractical to try to cover every possible maintenance situation, the safety precautions recommended here should serve to develop and promote safe maintenance procedures.

The information contained in this manual is not intended to replace safety codes, insurance requirements, federal, state, and local laws, rules and regulations. In particular, your service area or jobsite activities may be subject to state safety rules and/or federal regulation under the Occupational Safety and Health Act (OSHA). Familiarize yourself with all regulations applicable to your situation in order to avoid possible safety violations.

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Group III **GENERAL SPECIFICATIONS**

(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 unit equipped with 1-1/4 cu. yd. (0.96 m³) digging bucket with teeth, roll-over protective structure and standard equipment.)

Power

(@ 2,200 engine rpm):	SAE	DIN
Gross	80 hp (59.7 kW*)	
Net	72 hp (53.7 kW*)	73 PS

Net engine flywheel power is for an engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, alternator and muffler. The gross engine power is without fan. Gross and net flywheel power ratings are under SAE standard conditions of 500-ft. (152 m) altitude and 85°F (29°C) temperature and DIN 70 020 conditions (non-corrected). No derating is required up to 10,000 feet (3000 m) altitude.

*In the international system of units (SI), power is expressed in Kilowatts (kW).

ENGINE:

John Deere, 4-cylinder, turbocharged diesel, 4-stroke cycle

Bore and stroke	4.19 x 5.00 in.
	(106.4 x 127 mm)
Piston displacement	.276 cu. in. (4 523 cm ³)
Compression ratio	
Maximum torque @ 1,200 rp	m
	(31.8 kg-m)
NACC or AMA (U.S. Tax) ho	rsepower
Lubrication Pressu	ure system with full-flow
	filter and cooler
Main bearings	
Main bearings Pressuriz	
	ed with dual thermostat and controlled bypass
Cooling Pressuriz	ed with dual thermostat and controlled bypass Blower
Cooling Pressuriz	ted with dual thermostat and controlled bypass Blower dicator Dry 12-volt

TRANSMISSION:

Converter-driven, 3-speed forward and reverse, Power Shift.

STEERING:

Steering clutches and brakes are controlled by a single pedal for each track. A separate pedal provides braking, and lockdown for parking.

Clutches.....Oil-cooled, hydraulically-actuated, multiple-disk, 11-in. (279 mm) disks; 16 friction surfaces per clutch.

Brakes...Self-adjusting, self-energizing, oil-cooled contracting band with bonded lining.

TRAVEL SPEEDS:

	Forward		Rev	/erse
	mph	km/h	mph	km/h
1st	2.01	3.23	2.42	3.89
2nd	3.26	5.25	3.90	6.28
3rd	5.63	9.06	6 75	10.86

HYDRAULIC SYSTEM:

Control	Triple hydraulic valve with single-lever
	bucket control and third function control
Pump	
Pressure	2,250 psi (158.2 kg/cm ²)
Oil lines	Seamless steel tubing;
	double-wire braid hose
Filter	Micronic in return line

HYDRAULIC CYLINDERS:

Bore	Stroke
Boom, two 4.25-in. (108	3 mm) 28.25-in. (718 mm)
Bucket, two 3.5 in. (8	39 mm) 31.1-in. (790 mm)
Cylinder rods	Ground, heat-treated,
	chrome-plated, polished
Boom cylinder rods	2.25-in. (57 mm) dia.
Bucket cylinder rods	1.75 in. (44.5 mm) dia.

TRACKS (5-roller track frames with rock guards): Triple semi-grouser.

inple com groucol,	
open-center	14-in. (356 mm)
Track shoes, each side	
Ground contact area 2,128 s	q. in. (13 729 cm ²)
Ground pressure 8.2	2 psi (0.58 kg/cm ²)
Length of track on ground	76 in. (1.93 m)
Track gauge	52 in. (1.32 m)
Carrier roller	1
Adjustment	Hydraulic
Clearance at rear crossbar	14.25 in. (362 mm)

	SAE Heaped	
BUCKETS:	Capacity	Width
Digging	1-1/4 cu. yd.	72.25 in.
	(0.96 m³)	(1.84 m)
Light Materials	1-3/4 cu. yd.	78.25 in.
	(1.34 m ³)	(1.99 m)
Multi-purpose	1-1/4 cu. yd.	73 in.
	(0.96 m³)	(1.85 m)

OPERATING INFORMATION:

Breakout force 15,750 lb. (7 14	
Lifting capacity, full height 10,600 lb. (4 80	8 kg)
Maximum dumping angle	deg.
Raising time 7.0	sec.
Dumping time 1.6	sec.
Lowering time 4.0	sec.

CAPACITIES: U.S.	Litres
Cooling system	18.9
Fuel tank	136.3
Crankcase including filter 15 qt.	14.2
Transmission (total capacity) 13.5 gal.	51.1
Final drive (each) 7 qt.	6.6
Hydraulic reservoir	26.5
Hydraulic system13 gal.	49.2
Steering clutch housing	
(each side)	26.5
Winch reservoir	8.5
SAE operating	
weight with ROPS 18,225 lb. ((8 267 kg)

ADDITIONAL STANDARD EQUIPMENT: Front bottom guard Front hitch Cushion seat with arm rests Key switch with push-button start switch Precleaner Electric hour meter Cigar lighter Vandal protection Bottom guard counterweight with fixed drawbar Bucket level indicator Radiator sand shield Sprocket weights Lights Enclosed alternator with solid state regulator Engine side shields Boom safety lock bar Muffler Tachometer Cold weather starting aid Front idler shields Master electrical disconnect switch Return-to-dia Decelerator Pedal steering

SPECIAL EQUIPMENT:

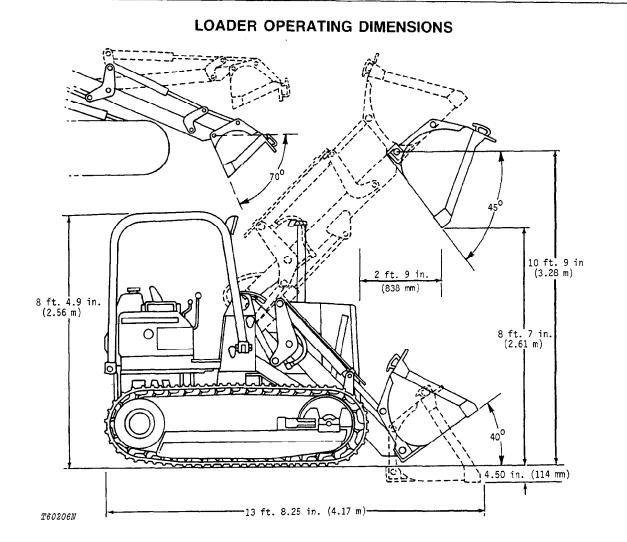
13-in. (330 mm) rubber shoes Cab (includes ROPS) Winch drive Two batteries Rear counterweight for multi-purpose bucket or log

loader

Brush screens

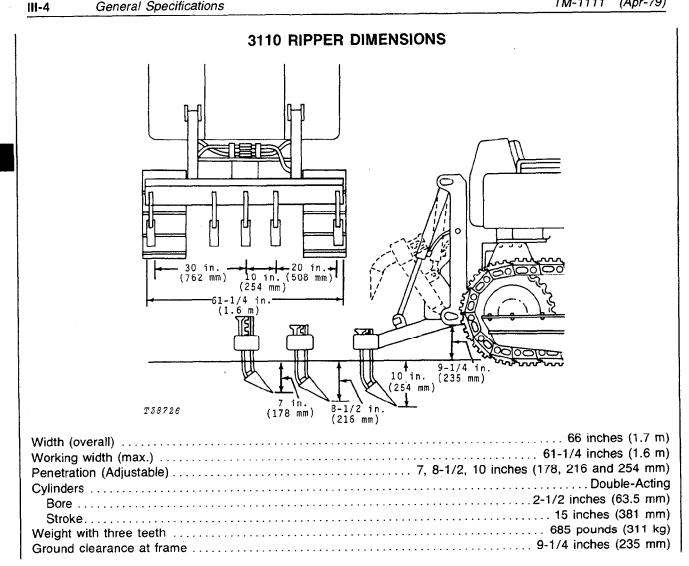
Limb risers with overhead exhaust

I

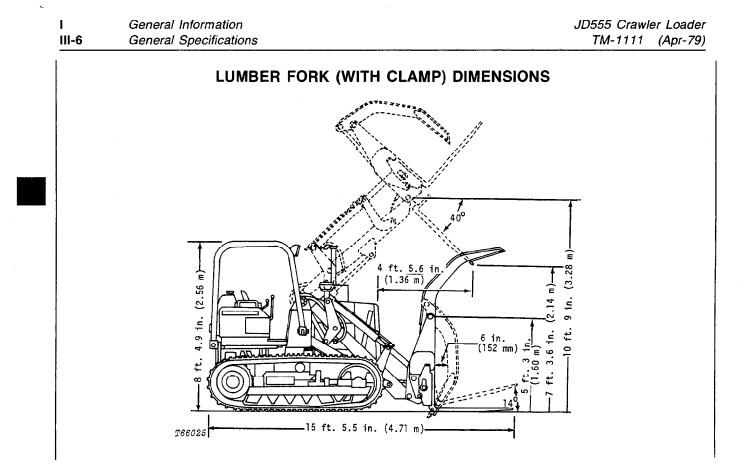


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	9300 B	ACKHOE S	PECIFICA	TIONS			
			0 7 ft. 3 in. (5	10 ft. (3.07 ft. .25 m)	1		
	wer -	Truck (4. Dading 8 ft.	t. 7 in 14 m) (2.44 m) Bottom		50 m)		
24° - 16° - 16° - 16° - 16° - 16° - 16° - 16° - 16° - 16° - 16° - 16° - 16° - 16° - 16° - 16° - 16° - 16° - 16°	8.		ft. 7 in. (4.4 (610 mm) Flat	•	± _		
Operating Information:			Stabilizer Wir	l th•			
Operating Information: Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8.ft. (2.44 m) flat bottom	14 ft. 7	7 in. (4.44 m)	Operating pos	ition ition (overa	all)		n. (3.20 m
Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom	14 ft. 7 13 ft. 7	7 in. (4.44 m) 7 in. (4.14 m)	Transport pos Operating pos	ition ition (over ition (ICEE	all)	10 ft. 6 ir 9 ft. 1 ir	n. (3.20 m
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Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Swing arc Digging force (bucket cylinder), ICED	14 ft. 7 13 ft. 7	7 in. (4.44 m) 7 in. (4.14 m) 180 deg.	Transport pos Operating pos Operating pos	ition ition (overa ition (ICEE Wi in. 12	all)	10 ft. 6 ir 9 ft. 1 ir Struck cu. ft. 2.5	n. (3.20 m n. (2.77 m Capacity m 0.07
Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Swing arc Digging force (bucket cylinder), ICED Digging force, crowd	14 ft. 7 13 ft. 7 Ib. (41.35 I	7 in. (4.44 m) 7 in. (4.14 m) 180 deg. KN) (4185 kg)	Transport pos Operating pos Operating pos Buckets:	ition ition (overa ition (ICEE Wi in. 12 16	all)	10 ft. 6 ir 	n. (3.20 m n. (2.77 m Capacity m 0.07 0.10
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Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Swing arc Digging force (bucket cylinder), ICED Digging force, crowd cylinder Reach from center of swing mast, ICED Loading height, ICED	14 ft. 1 13 ft. 1 lb. (41.35 k lb. (26.15 k 17 ft. (10 ft. 1	7 in. (4.44 m) 7 in. (4.14 m) 180 deg. (N) (4185 kg) (N) (2647 kg) 3 in. (5.26 m) 4 in. (3.07 m)	Transport pos Operating pos Operating pos Buckets:	ition ition (overa ition (ICEE Wi in. 12 16 18 24	all)	10 ft. 6 ii 	n. (3.20 m n. (2.77 m Capacity m 0.07 0.10 0.12 0.17 0.21
Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Swing arc Digging force (bucket cylinder), ICED Digging force, crowd cylinder 5835 I Reach from center of swing mast, ICED	14 ft. 1 13 ft. 1 lb. (41.35 k lb. (26.15 k 17 ft. (10 ft. 1	7 in. (4.44 m) 7 in. (4.14 m) 180 deg. (N) (4185 kg) (N) (2647 kg) 3 in. (5.26 m) 4 in. (3.07 m)	Transport pos Operating pos Operating pos Buckets : Standard	ition ition (overa ition (ICEE Wi in. 12 16 18 24 30 36	all)	10 ft. 6 ii 	n. (3.20 m n. (2.77 m Capacity 0.07 0.10 0.12 0.17 0.21 0.20
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Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Swing arc Digging force (bucket cylinder), ICED Digging force, crowd cylinder Reach from center of swing mast, ICED Loading height, ICED	14 ft. 1 13 ft. 1 lb. (41.35 k lb. (26.15 k 17 ft. 2 10 ft. 1	7 in. (4.44 m) 7 in. (4.14 m) 180 deg. (N) (4185 kg) (N) (2647 kg) 3 in. (5.26 m) 4 in. (3.07 m) 1 in. (3.38 m)	Transport pos Operating pos Operating pos Buckets : Standard	ition ition (overa ition (ICEE Wi in. 12 16 18 24 30 36	all)	10 ft. 6 ii 	n. (3.20 m n. (2.77 m Capacity 0.07 0.10 0.12 0.17 0.21
Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Swing arc Digging force (bucket cylinder), ICED 9226 I Digging force, crowd cylinder 5835 I Reach from center of swing mast, ICED Loading height, ICED Transport height	14 ft. 7 13 ft. 7 lb. (41.35 k lb. (26.15 k 17 ft. 3 11 ft. 5 11 ft. 5 11 ft. 1	7 in. (4.44 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (4.185 kg) 7 in. (2647 kg) 8 in. (5.26 m) 9 in. (5.26 m) 1 in. (3.38 m) 58.2 kg/cm ²)	Transport pos Operating pos Operating pos Buckets : Standard	ition ition (overa ition (ICEE Wi in. 12 16 18 24 30 36 18 24 30 36	all) dth mm 305 406 457 610 762 914 457 610	10 ft. 6 in 	n. (3.20 m n. (2.77 m Capacity 0.07 0.10 0.12 0.21 0.20 0.12 0.20
Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Swing arc Digging force (bucket cylinder), ICED 9226 H Digging force, crowd cylinder 5835 H Reach from center of swing mast, ICED Loading height, ICED Fransport height Hydraulic System Pressure 2250 psi (15 Pump 28 gpm (106 L/m)	14 ft. 7 13 ft. 7 lb. (41.35 k lb. (26.15 k 17 ft. 3 11 ft. 5 11 ft. 5 11 ft. 1	7 in. (4.44 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (4.185 kg) 7 in. (2647 kg) 8 in. (5.26 m) 9 in. (5.26 m) 1 in. (3.38 m) 58.2 kg/cm ²)	Transport pos Operating pos Operating pos Buckets : Standard	ition ition (overa ition (ICEE Wi in. 12 16 18 24 30 36 18 24 30 36	all) dth mm 305 406 457 610 762 914 457 610	10 ft. 6 in 	n. (3.20 m n. (2.77 m Capacity m 0.07 0.10 0.12 0.17 0.21 0.20 0.12 0.21
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Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Swing arc Digging force (bucket cylinder), ICED Digging force, crowd cylinder Swing arc Digging force, crowd cylinder colding height, ICED Loading height, ICED Transport height Pressure 2250 psi (15 Pump Pumpathic Cylinders:	14 ft. 7 13 ft. 7 lb. (41.35 k lb. (26.15 k 17 ft. 3 11 ft. 5 11 ft. 5 55.1 bar) (1 hin) @ 250	7 in. (4.44 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (307 kg) 8 in. (5.26 m) 9 in. (3.07 m) 1 in. (3.38 m) 58.2 kg/cm ²) 0 engine rpm Rod	Transport pos Operating pos Operating pos Buckets: Standard Heavy-duty Ejector Attachments:	ition ition (overa ition (ICEE Wi in. 12 16 18 24 30 36 18 24 30 24 30 24	all) dth mm 305 406 457 610 762 914 457 610 762 914 457 610 762 610 762 610	10 ft. 6 ii 	n. (3.20 m n. (2.77 m Capacity m 0.07 0.10 0.12 0.17 0.21 0.20 0.12 0.12 0.12 0.21
Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Digging force (bucket cylinder), ICED Digging force, crowd cylinder Swing arc. Digging force, crowd cylinder Sast, ICED Loading height, ICED Fransport height Hydraulic System Pressure 2250 psi (15 Pump 28 gpm (106 L/m Hydraulic Cylinders: Bore Str	14 ft. 7 13 ft. 7 lb. (41.35 k lb. (26.15 k 17 ft. (11 ft. 7 i5.1 bar) (1 hin) @ 250	7 in. (4.44 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (307 kg) 8 in. (5.26 m) 9 in. (3.07 m) 1 in. (3.38 m) 58.2 kg/cm ²) 0 engine rpm Rod Diameter	Transport pos Operating pos Operating pos Buckets: Standard Heavy-duty Ejector Attachments: Ripper tooth ro	ition ition (OVER ition (ICEE Wi in. 12 16 18 24 30 36 18 24 30 24 24 30 24	all) dth mm 305 406 457 610 762 914 457 610 762 610 762 610 762 610	10 ft. 6 in 9 ft. 1 in Struck cu. ft. 2.5 3.6 4.4 6.0 7.6 7.2 4.4 6.0 7.6 4.2 Cast steel, 225 f	n. (3.20 m n. (2.77 m Capacity m 0.07 0.10 0.12 0.17 0.21 0.20 0.12 0.12 0.12 0.12 0.12 0.11 0.21
Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Swing arc Digging force (bucket cylinder), ICED Digging force, crowd cylinder Swing arc Digging force, crowd cylinder Sast, ICED Loading height, ICED Fransport height Pressure 2250 psi (15 Pump Atydraulic Cylinders: Bore Str Bore Str Bore Str Bore Str	14 ft. 7 13 ft. 7 lb. (41.35 k lb. (26.15 k 17 ft. (11 ft i5.1 bar) (1 hin) @ 250 roke -in.	7 in. (4.44 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (80 deg. 7 in. (80 deg. 7 in. (2647 kg) 8 in. (5.26 m) 9 in. (3.26 m) 1 in. (3.07 m) 1 in. (3.38 m) 58.2 kg/cm ²) 0 engine rpm Rod Diameter 2.25-in.	Transport pos Operating pos Operating pos Buckets: Standard Heavy-duty Ejector Attachments: Ripper tooth ratio	ition ition (OVER ition (ICEE Wi in. 12 16 18 24 30 36 18 24 30 24 24 30 24 24	all) dth mm 305 406 457 610 762 914 457 610 762 610 762 610 762 610	10 ft. 6 ii 	n. (3.20 m n. (2.77 m Capacity m 0.07 0.10 0.12 0.17 0.21 0.20 0.12 0.12 0.12 0.12 0.12 0.11 0.21
Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Swing arc Digging force (bucket cylinder), ICED Digging force, crowd cylinder Swing arc Digging force, crowd cylinder Sast, ICED Loading height, ICED Transport height Pressure 2250 psi (15 Pump Hydraulic System Pressure 2250 psi (15 Pump Atydraulic Cylinders: Bore Str Bore <td< td=""><td>14 ft. 7 13 ft. 7 lb. (41.35 k lb. (26.15 k 17 ft. (11 ft. 5 55.1 bar) (1 hin) @ 250 roke -in. 64 mm)</td><td>7 in. (4.44 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (5.26 m) 7 in. (5.26 m) 7 in. (5.26 m) 7 in. (3.07 m) 7 in. (3.38 m) 7 in. (5.26 m)</td><td>Transport pos Operating pos Operating pos Buckets: Standard Heavy-duty Ejector Attachments: Ripper tooth ro</td><td>ition ition (OVER ition (ICEE Wi in. 12 16 18 24 30 36 18 24 30 24 24 30 24 24</td><td>all) dth mm 305 406 457 610 762 914 457 610 762 610 762 610 762 610</td><td> 10 ft. 6 in 9 ft. 1 in Struck cu. ft. 2.5 3.6 4.4 6.0 7.6 7.2 4.4 6.0 7.6 4.2 Cast steel, 225 f</td><td>n. (3.20 m n. (2.77 m Capacity m 0.07 0.10 0.12 0.17 0.21 0.20 0.12 0.12 0.12 0.12 0.12 0.11 0.21</td></td<>	14 ft. 7 13 ft. 7 lb. (41.35 k lb. (26.15 k 17 ft. (11 ft. 5 55.1 bar) (1 hin) @ 250 roke -in. 64 mm)	7 in. (4.44 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (5.26 m) 7 in. (5.26 m) 7 in. (5.26 m) 7 in. (3.07 m) 7 in. (3.38 m) 7 in. (5.26 m)	Transport pos Operating pos Operating pos Buckets: Standard Heavy-duty Ejector Attachments: Ripper tooth ro	ition ition (OVER ition (ICEE Wi in. 12 16 18 24 30 36 18 24 30 24 24 30 24 24	all) dth mm 305 406 457 610 762 914 457 610 762 610 762 610 762 610	10 ft. 6 in 9 ft. 1 in Struck cu. ft. 2.5 3.6 4.4 6.0 7.6 7.2 4.4 6.0 7.6 4.2 Cast steel, 225 f	n. (3.20 m n. (2.77 m Capacity m 0.07 0.10 0.12 0.17 0.21 0.20 0.12 0.12 0.12 0.12 0.12 0.11 0.21
Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Swing arc Digging force (bucket cylinder), ICED Digging force, crowd cylinder Cylinder Beach from center of swing mast, ICED Loading height, ICED Transport height Pressure 2250 psi (15 Pump Pumpathic Cylinders: Bore Str Bore Str Crowd 4-in.	14 ft. 7 13 ft. 7 lb. (41.35 k lb. (26.15 k 17 ft. 3 11 ft. 5 11 ft. 5 55.1 bar) (1 hin) @ 250 roke -in. 64 mm) -in.	7 in. (4.44 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (3.07 m) 7 in. (5.26 m) 7 in. (3.07 m) 7 in. (3.07 m) 7 in. (3.38 m)	Transport pos Operating pos Operating pos Buckets: Standard Heavy-duty Ejector Attachments: Ripper tooth re tooth has hard stabilizer pads	ition ition (OVER ition (ICEE Wi in. 12 16 18 24 30 36 18 24 30 24 24 30 24 24 30 24 24 30	all) dth mm 305 406 457 610 762 914 457 610 762 610 762 610 762 610	10 ft. 6 in 9 ft. 1 in Struck cu. ft. 2.5 3.6 4.4 6.0 7.6 7.2 4.4 6.0 7.6 4.2 Cast steel, 225 f	n. (3.20 m n. (2.77 m Capacity m 0.07 0.10 0.12 0.17 0.21 0.20 0.12 0.12 0.12 0.12 0.12 0.11 0.21
Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Swing arc Digging force (bucket cylinder), ICED Digging force, crowd cylinder Cylinder Beach from center of swing mast, ICED Loading height, ICED Transport height Pressure 2250 psi (15 Pump Pumpathic System Pressure 28 gpm (106 L/m Hydraulic Cylinders: Bore Str Bore Str Crowd 4-in. (102 mm)	14 ft. 7 13 ft. 7 Ib. (41.35 k Ib. (26.15 k 17 ft. 3 11 ft. 5 55.1 bar) (1 hin) @ 250 roke -in. 54 mm) -in. 38 mm)	7 in. (4.44 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (3.07 m) 7 in. (5.26 m) 7 in. (3.07 m) 7 in. (3.07 m) 7 in. (3.38 m)	Transport pos Operating pos Operating pos Buckets: Standard Heavy-duty Ejector Attachments: Ripper tooth re tooth has hard stabilizer pads	ition ition (overa ition (ICEE Wi in. 12 16 18 24 30 36 18 24 30 36 18 24 30 24 24 30 24 24 30 24 24 30 24 24 30 36 18 24 30 36 24 24 30 36 24 24 30 36 24	all) dth mm 305 406 457 610 762 914 457 610 762 610 762 610 262 2610 2610 262 262 262 262 262 262 262 26	10 ft. 6 in 9 ft. 1 in Struck cu. ft. 2.5 3.6 4.4 6.0 7.6 7.2 4.4 6.0 7.6 4.2 Cast steel, 225 f	n. (3.20 m n. (2.77 m Capacity m 0.07 0.10 0.12 0.17 0.21 0.20 0.12 0.12 0.12 0.12 0.12 0.11 0.21
Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Swing arc Digging force (bucket cylinder), ICED Digging force, crowd cylinder cylinder Reach from center of swing mast, ICED Loading height, ICED Transport height Hydraulic System Pressure 28 gpm (106 L/m) Hydraulic Cylinders: Bore Str Boom (114 mm) (82 Bucket 33-(102 mm) 83-5-in.	14 ft. 7 13 ft. 7 lb. (41.35 k lb. (26.15 k 17 ft. (10 ft. 7 11 ft. 7 55.1 bar) (1 hin) @ 250 roke -in. 64 mm) -in. 38 mm) .37-in.	7 in. (4.44 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (3.07 m) 7 in. (5.26 m) 7 in. (3.07 m) 7 in. (3.07 m) 7 in. (3.38 m) 7 in.	Transport pos Operating pos Operating pos Buckets: Standard Heavy-duty Ejector Attachments: Ripper tooth re tooth has hard stabilizer pads Shipping Wei Exclusive of m	ition ition (overa ition (ICEE Wi in. 12 16 18 24 30 36 18 24 30 36 18 24 30 24 24 30 24 24 30 24 24 30 36 18 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 36 36 36 24 30 36 36 36 36 36 36 36 36 36 36 36 36 36	all) dth mm 305 406 457 610 762 914 457 610 762 610 762 610 26400 2640 2640 2640 26400 26400 26400 26400 26400 2640 26400 26400 2640 26400	10 ft. 6 in 	n. (3.20 m n. (2.77 m Capacity m 0.07 0.10 0.12 0.17 0.21 0.20 0.12 0.11 0.21 0.11 0.11
Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Swing arc Digging force (bucket cylinder), ICED Digging force, crowd cylinder cylinder Loading height, ICED Loading height, ICED Transport height Hydraulic System Pressure 2250 psi (15 Pump 28 gpm (106 L/m) Hydraulic Cylinders: 34 Crowd 4.5-in. 34 (114 mm) (86 Crowd 3.5-in. 27 (89 mm) (65	14 ft. 7 13 ft. 7 13 ft. 7 13 ft. 7 13 ft. 7 17 ft. 2 10 ft. 7 10 ft. 7 11 ft. 7 11 ft. 7 11 ft. 7 	7 in. (4.44 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (300 m) 7 in. (5.26 m) 7 in. (3.07 m) 7 in. (3.38 m) 7 in. (3.7 m) 7 in. (51 mm) 7 in. (57 mm)	Transport pos Operating pos Operating pos Buckets: Standard Heavy-duty Ejector Attachments: Ripper tooth re tooth has hard stabilizer pads Shipping Wei Exclusive of m	ition ition (overa ition (ICEE Wi in. 12 16 18 24 30 36 18 24 30 36 18 24 30 24 24 30 24 24 30 24 24 30 36 18 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 36 36 36 24 30 36 36 36 36 36 36 36 36 36 36 36 36 36	all) dth mm 305 406 457 610 762 914 457 610 762 610 762 610 26400 2640 2640 2640 26400 26400 26400 26400 26400 2640 26400 26400 2640 26400	10 ft. 6 in 9 ft. 1 in Struck cu. ft. 2.5 3.6 4.4 6.0 7.6 7.2 4.4 6.0 7.6 4.2 Cast steel, 225 f	n. (3.20 m n. (2.77 m Capacity m 0.07 0.10 0.12 0.21 0.20 0.12 0.11 0.21 0.11 b. (102 kg et pads fo
Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Swing arc Digging force (bucket cylinder), ICED Digging force, crowd cylinder cylinder	14 ft. 7 13 ft. 7 13 ft. 7 13 ft. 7 17 ft. 2 17 ft. 2 10 ft 11 ft 55.1 bar) (1 nin) @ 250 roke -in. 64 mm) -in. 38 mm) .37-in. 95 mm) .62-in.	7 in. (4.44 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (3.07 kg) 8 in. (5.26 m) 1 in. (3.07 m) 1 in. (3.07 m) 1 in. (3.38 m) 58.2 kg/cm ²) 0 engine rpm Rod Diameter 2.25-in. (57 mm) 2-in. (57 mm) 2-in.	Transport pos Operating pos Operating pos Buckets: Standard Heavy-duty Ejector Attachments: Ripper tooth re tooth has hard stabilizer pads Shipping Wei Exclusive of m	ition ition (overa ition (ICEE Wi in. 12 16 18 24 30 36 18 24 30 36 18 24 30 24 24 30 24 24 30 24 24 30 36 18 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 36 36 36 24 30 36 36 36 36 36 36 36 36 36 36 36 36 36	all) dth mm 305 406 457 610 762 914 457 610 762 610 762 610 26400 2640 2640 2640 26400 26400 26400 26400 26400 2640 26400 26400 2640 26400	10 ft. 6 in 	n. (3.20 m n. (2.77 m Capacity m 0.07 0.10 0.12 0.21 0.20 0.12 0.21 0.21 0.11 0.21 0.11
Digging Depth (ICED): Maximum 2-ft. (610 mm) flat bottom 8-ft. (2.44 m) flat bottom Swing arc Digging force (bucket cylinder), ICED Digging force, crowd cylinder cylinder	14 ft. 7 13 ft. 7 13 ft. 7 13 ft. 7 17 ft. 2 17 ft. 2 10 ft 11 ft 11 ft 	7 in. (4.44 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (4.14 m) 7 in. (3.07 deg. 7 in. (5.26 m) 7 in. (3.07 m) 7 in. (3.07 m) 7 in. (3.38 m) 7 in. (3.7 m) 7 in. (57 mm) 7 in. (57 mm) 7 in. (57 mm) 7 in. (51 mm)	Transport pos Operating pos Operating pos Buckets: Standard Heavy-duty Ejector Attachments: Ripper tooth re tooth has hard stabilizer pads Shipping Wei Exclusive of m	ition ition (overa ition (ICEE Wi in. 12 16 18 24 30 36 18 24 30 36 18 24 30 24 24 30 24 24 30 24 24 30 36 18 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 24 30 36 36 36 36 24 30 36 36 36 36 36 36 36 36 36 36 36 36 36	all) dth mm 305 406 457 610 762 914 457 610 762 610 762 610 26400 2640 2640 2640 26400 26400 26400 26400 26400 2640 26400 26400 2640 26400	10 ft. 6 in 	n. (3.20 m n. (2.77 m Capacity n 0.07 0.10 0.12 0.17 0.21 0.21 0.21 0.11 0.21 0.11 0.21



Group IV PREDELIVERY, DELIVERY, AND AFTER-SALE SERVICES

TEMPORARY STORAGE

After receiving your crawler from the factory and before putting the crawler into temporary storage, perform the following checks:

1. Check battery electrolyte level and charge the battery, if necessary.

2. Check the level of coolant in the radiator. The coolant should be maintained at a level midway between the radiator core and filler neck.

3. Fill the fuel tank.

4. Check crankcase oil level. Oil should be at top mark of dipstick after crawler has been shut down for 10 minutes.

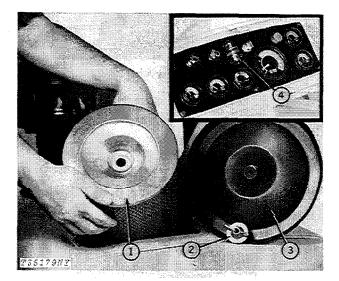
5. Relieve hydraulic pressure by stopping engine, lowering all equipment and operating control levers until system fails to respond.

PREDELIVERY SERVICE

Because of the shipping factors involved, plus extra finishing touches that are necessary to promote customer satisfaction, proper predelivery service is of prime importance to the dealer and the customer.

Use the following list when preparing a crawler for delivery to the customer.

1. Air Cleaner



1—Primary Filter 2—Gasket and Wing Nut 3—Air Cleaner Cover 4—Restriction Indicator

Fig. 1-Air Cleaner Primary Element

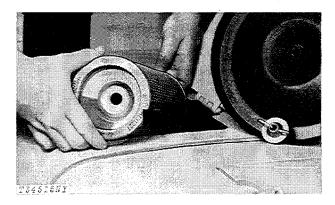


Fig. 2-Air Cleaner Safety Element

י IV-1 Check air filter restriction indicator. If red signal locks in full view, remove primary element and clean.

Yes

No

No

Air cleaner element checked

2. Pre-Cleaner

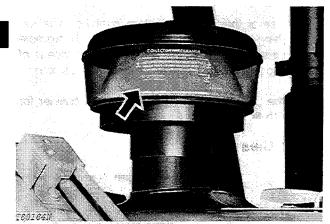


Fig. 3-Pre-Cleaner Attachment

Check the pre-cleaner and empty if necessary.

Pre-cleaner cleaned out **3. Fuel Filter**

Fig. 4-Fuel Filter Drain Plug

Check fuel filter for sediment and drain, if necessary. Bleed fuel system after draining. See page I-IV-30.

Sediment present in filter

Yes No

4. Battery

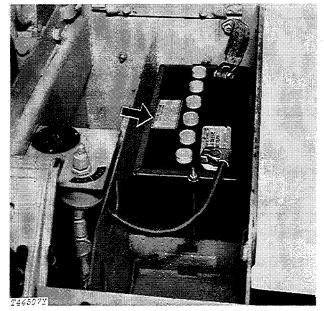


Fig. 5-Batteries

Check battery electrolyte level. If distilled water is not available, use clean soft water. Avoid use of hard water. Remove foreign material from top of battery and coat terminals with petroleum jelly. Check vent holes in battery caps.

IMPORTANT: Never add water to battery in freezing weather unless engine is to be run 2 or 3 hours to assure mixing of water and electrolyte.

Check battery connections.

Punch date code on battery.

Water added	Yes	No
Battery connections checked	Yes	No

5. Fuel Tank

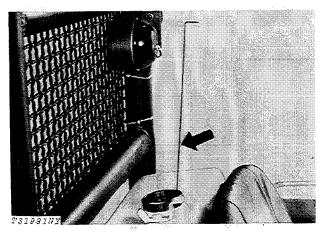


Fig. 6-Fuel Tank

Check the fuel tank level. If fuel level is low, add sufficient fuel to fill the fuel tank. Fuel tank capacity is 31 gals. (117.5 L).

Fuel tank level	Full	1/2-Full	Empty

6. Radiator

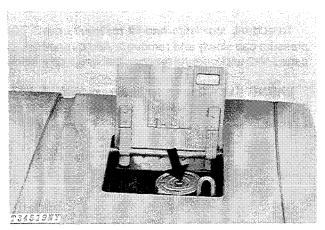


Fig. 7-Radiator Filler Cap

CAUTION: Do not remove radiator filler cap until the coolant temperature is below its boiling point. Then loosen cap slowly to the stop to relieve any excess pressure before removing cap completely.

Check the level of coolant in the radiator. Coolant should be maintained at a level midway between the radiator core and filler neck. Add permanent type antifreeze if cold weather is expected.

Radiator coolant level checked	Yes	No
Coolant or antifreeze added	Yes	No

7. Alternator Belt Tension

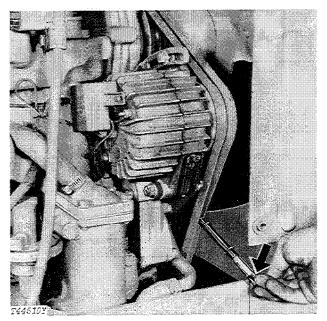


Fig. 8-Adjusting Alternator Belt Tension (Tension Tester)

Check alternator belt tension. If tension tester is used, a force of 20 pounds (9 kg) on the belt midway between the pulleys should deflect the belt 3/4 inch (19 mm). If strand tension gauge is used, tighten fan belt to 90 lb. (40 kg) strand tension. Loosen the alternator bracket and adjusting cap screws and apply outward force to the FRONT alternator frame.

IMPORTANT: Apply outward force on FRONT of alternator housing only.

NOTE: Recheck belt tension after adjustment. DO NOT OVERTIGHTEN.

Belt tension

_____lbs (kg) tension _____inch (mm) flex

Litho in U.S.A.

8. Air Intake Hoses

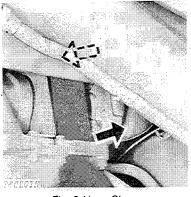
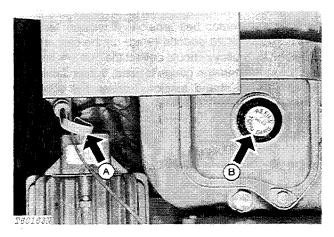


Fig. 9-Hose Clamps

Check clamps on hose which connects air cleaner and engine. Tighten hose clamps where necessary. Inspect hoses for cracks.

Air intake hose checked	Yes	No
Loose connections	Yes	No

9. Crankcase Oil Level



A—Dipstick

B-Oil Filler Cap

Fig. 10-Crankcase Oil Level

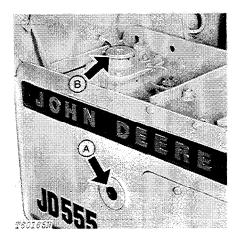
NOTE: Access to the crankcase dipstick and oil filler cap is obtained through a cover in the hood.

Check crankcase oil level with unit on level ground and engine off. If oil level is at or below bottom mark on dipstick, add sufficient oil of the proper viscosity and type specified on page I-V-2 to bring oil level to between marks on dipstick. Do not operate engine with oil level below the bottom mark.

Crankcase oil level checked	Yes	No
Oil added, if any	qts.	(L)

10. Hydraulic Reservoir Oil Level

Oil level should be halfway up in oil level window with the bucket rolled back on the ground.



A---Oil Level Window

B-Filler Cap

Fig. 11-Hydraulic System Oil Level

IMPORTANT: If the JD555 is equipped with a backhoe, the backhoe must be in transport position to obtain correct oil level reading.

To add oil, turn latch and lift reservoir cover. Turn pressure cap slowly and remove it. Add oil specified on page I-V-2 until oil level reaches half circle on window.

IMPORTANT: Do not operate crawler without oil in reservoir. Doing so will damage the hydraulic system.

Oil level checked	Yes	No
Oil added, if any	qts	. (L)

11. Transmission Oil Level

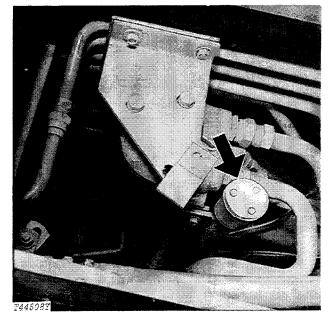


Fig. 12-Transmission Oil Dipstick

The transmission dipstick is accessible by lifting the seat cushion up. The correct oil level check is made with the dipstick resting on the filler tube.

Perform both of the following transmission oil level checks:

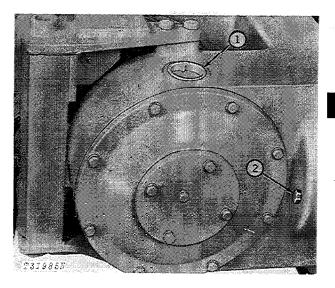
(a) Before starting the engine, check the oil level with dipstick. If the oil level is at or near the upper (FULL) mark, there is sufficient oil in the system to permit starting the engine. If oil level is low, add transmission oil of the type specified on page I-V-2. Replace dipstick.

(b) Operate crawler until the transmission reaches normal operating temperature-transmission temperature gauge needle a minimum of 1/4 way up in light green zone. With the engine idling, transmission locked in neutral and the parking brake set, check the transmission oil level.

Oil level should now be at or above the lower (ADD) mark and not above the upper (FULL) mark on the dipstick. If necessary, add fluid of the type specified on page I-V-2. Do not overfill.

Oil level checked	Yes	No
Oil added, if any	qts.	(L)

12. Winch Housing Oil Level



1—Filler Plug

2-Oil Level Plug

Fig. 13-Winch Oil Level

Check oil level of winch housing by removing the oil level plug. If necessary, remove the filler plug and add oil as specified on page I-V-2 until oil is to level of oil level hole.

Oil level checked	Yes	No
Oil added, if any	qts	. (L)

13. Fuel Tank Sump

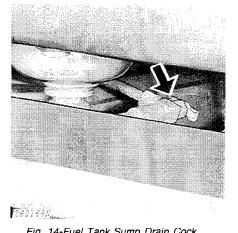


Fig. 14-Fuel Tank Sump Drain Cock

Drain sump after crawler has been shut down 3-4 hours. Open drain cock under seat. Drain fuel until it is clear of water, dirt, etc. Close drain cock.

Fuel sump drained

Yes No

14. Final Drives

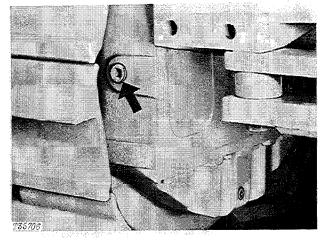


Fig. 15-Final Drive Oil Level Check Plug (Without Rear Mounted Equipment)

15. Lights

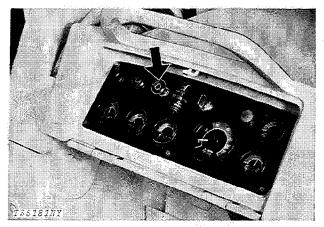


Fig. 17-Light Switch

Pull out switch knob to turn on lights. Push in switch knob to turn off lights. The key switch must be in the "on" position before the lights will operate.

Lights operational

Yes No

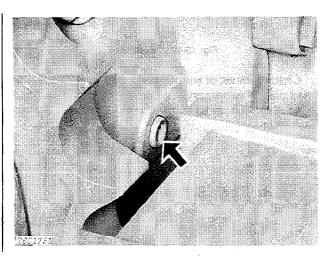


Fig. 16-Final Drive Oil Level Check Plug (With Rear Mounted Equipment)

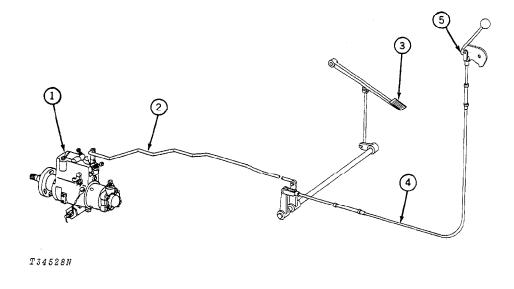
NOTE: Whenever the crawler is equipped with rear mounted equipment, the oil level may be checked at the front check plug (Fig. 16). When the crawler is not equipped with rear mounted equipment, it is easier and faster to check the oil level at the rear check plug (Fig. 15).

The oil level in the final drives should be maintained at the level of the oil level hole. Check oil level and if necessary, add oil specified on page I-V-2 to bring oil to this level.

Oil level checked	Yes	No
Oil added, if any	qts.	(L)

I

16. Engine Speed Control



1-Injection Pump 2-Speed Control Rod

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3—Decelerator Pedal 4—Control Cable 5-Speed Control Lever

Fig. 18-Speed Control Linkage

Adjust speed control linkage as follows:

Unit With Decelerator Pedal:

With injection pump lever in fast idle position, the lever arm of the inside bell crank should be angled approximately 15° to the rear.

Push speed control lever forward to stop (fast idle position).

Align cable yoke with bell crank hole and tighten yoke four turns to allow for free travel.

Unit Without Decelerator Pedal:

Push speed control lever forward (fast idle position).

With injection pump lever in fast idle position, align | cable yoke to pump lever and tighten yoke four turns to allow for free travel.

NOTE: Slow idle cannot be adjusted by the speed control linkage. If fast idle is adjusted properly slow idle will automatically be adjusted.

Speed control linkage adjusted Yes No

17. Transmission Shifting



Fig. 19-Transmission Control Lever

The crawler has three speeds forward and three speeds reverse.

Shift the crawler from first and second reverse to first and second forward. Shift from third forward or reverse to a speed in the opposite direction by shifting into second before changing direction.

Transmission operational

Yes No

18. Gauge Operation

When operating the crawler, check the following gauges for correct operation.

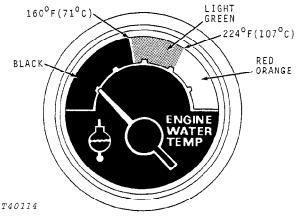


Fig. 20-Engine Coolant Temperature Gauge

Normal operating range is indicated by the light green zone on the gauge face.

If engine coolant temperature indicator hand is not in the green zone, stop engine and check cooling system.

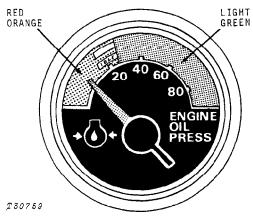
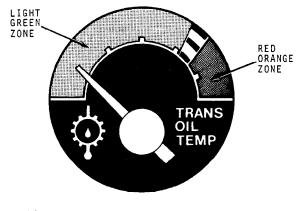


Fig. 21-Engine Oil Pressure Gauge

Normal operating range is indicated by the light green zone on the gauge face.

If engine oil pressure indicator hand is not in the green zone, stop engine and check oil level.



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Fig. 22-Transmission Temperature Gauge

Normal operating range is indicated by the light green zone on the gauge face.

If transmission temperature indicator hand is not in the green zone, stop engine and check oil level.

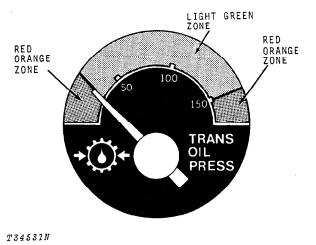
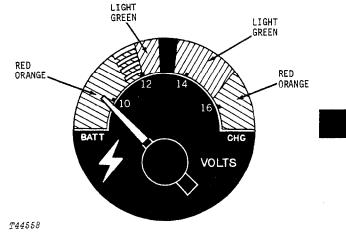


Fig. 23-Transmission Oil Pressure Gauge

Normal operating range is indicated by the light green zone on the gauge face.

If transmission oil pressure indicator hand is not in the green zone, stop engine and check oil level.





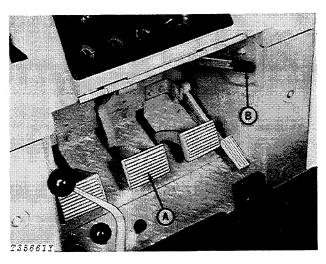
Normal operating range is indicated by the right green zone on the gauge face.

If voltmeter indicator hand is not in the green zone, trouble shoot the electrical system.

All gauges operational

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Yes No
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19. Brakes



A—Park Brake Pedal

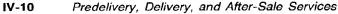
B-Park Brake Lever

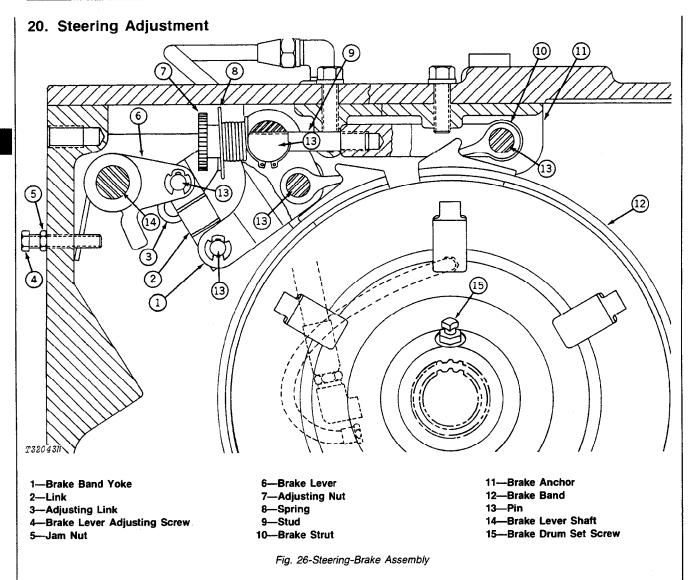
Fig. 25-Brakes

Apply park brake pedal and lever. Park brake should hold crawler from moving. If not, brakes need adjusting.

Brakes operational

Yes No





The steering should be adjusted so that the brakes start to pick up at 2.5 in. (63.5 mm) of pedal travel.

If adjustment is required, proceed as follows:

NOTE: Adjust one side at a time.

1. Tighten adjusting nut (7, Fig. 26) so brakes start to pick up at 2.5" (63.5 mm) pedal travel.

2. Tighten adjusting nut one notch more to insure that adjusting link (3) is against bottom of adjusting nut.

3. Loosen jam nut (5) and turn brake lever adjusting screw (4) in two turns, or far enough so the brakes will NOT self-adjust.

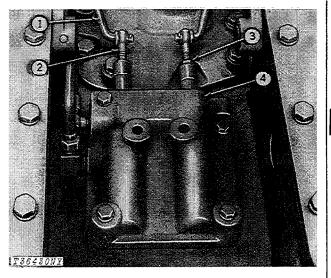
NOTE: Step 4 will require two service technicians.

4. While driving the crawler forward, repeatedly push pedal to the stop. Check if adjusting link (3) is picking up the next notch in the adjusting nut.

If necessary, repeat procedure after backing out adjusting screw (4) in quarter-turn increments until the adjusting link just picks up the next notch on the adjusting nut. Then lock the adjusting screw by tightening jam nut (5).

5. After the adjusting screw is set and locked in position, back off the adjusting nut so the pedals can be pushed down to the stop with little effort. Readjust pedal travel so bottom of pedal is 0.30" (7.62 mm) above floor when brake stop is contacted.

6. Readjust the brake adjusting nut so the brakes start to engage at 2.5" (63.5 mm) pedal travel.



 1—Steering Valve Rods
 3—Lock Nut

 2—Steering Valve Eyebolts
 4—Steering Valve Housing

Fig. 27-Steering Valve Spool Adjustments

Refer to Fig. 27 and adjust the steering valve spool. Start the engine and place the transmission in first gear and the reverser in gear. Set the foot brake and lock it down.

Adjust the steering valve spools so that the clutches are engaged when the tops of the steering pedals are 1.5 inches (38 mm) from the "at rest position" and disengaged when the tops of the pedals are 2.5 inches (63.5 mm) from the "at rest position".

Steering adjusted

Yes No

21. Loader Control Lever

m M(E) D-Dump E-Retract B-Lower C----Raise F-Return-to-Dig

Fig. 28-Loader Control Lever

Push lever forward to lower boom and pull it rearward to raise boom. Lever should automatically return to neutral when released.

Push lever to right to dump and pull it to the left to retract the bucket or fork. Lever should automatically return to neutral when released.

Loader control lever operational

A—Float

Yes No

22. Attachment Control Lever

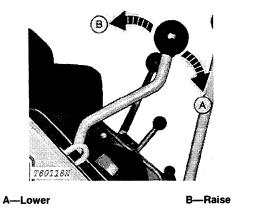


Fig. 29-Attachment Control Lever

Push lever forward to lower attachment, pull rearward to raise attachment.

Attachment control lever operational

No

Yes

23. Stabilizer Control Levers

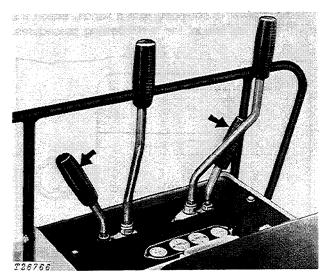
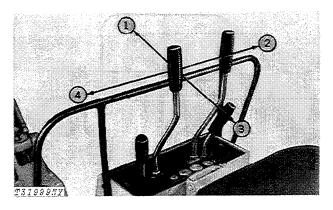


Fig. 30-Stabilizer Control Levers

To lower the stabilizers, move the control levers forward. To raise them, pull the levers rearward.

Stabilizer control levers operational Yes

24. Boom and Swing Control Lever



1---Down 2--Right 3---Up 4---Left

Fig. 31-Boom and Swing Control Lever

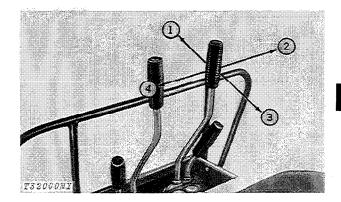
Lower the boom by moving the control lever forward. Raise the boom by moving the lever rearward. Swing left by moving the lever to the left and swing right by moving lever to the right.

Move the lever to one of the intermediate positions. The boom will move to the left or right at the same time it is being raised or lowered, performing two operations simultaneously.

Boom and swing control lever operational

Yes No

25. Bucket and Dipperstick Control Lever



1—Bucket Out 2—Dump

No

3—Bucket In 4—Load

Fig. 32-Bucket and Dipperstick Control Lever

Extend dipperstick by moving the control lever forward and retract it by moving the lever rearward.

Dump the bucket by moving the control lever to the right and load it by moving the lever to the left.

Move the lever to one of the intermediate positions. The dipperstick can be extended or retracted at the same time the bucket is being loaded or dumped.

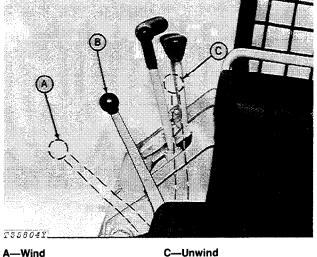
Bucket and dipperstick control lever operational

Yes No

Litho in U.S.A.

JD555 Crawler Loader TM-1111 (Apr-79)

26. Winch Control Lever



A—Wind B—Hold

Fig. 33-Winch Control Lever

To operate the winch, start the engine and allow it to warm up properly. Adjust the engine speed from 1500 rpm to 2375 rpm.

The winch control lever has three positions: Hold, Wind, and Unwind.

When the control lever is in the center position, the winch is in the "HOLD" position. In this position, the winch brake prevents the cable drum from rotating.

To release the cable, move the control lever rearward to the "UNWIND" position. This allows the cable drum to "free-spool" and unwind by the "line-pull." The control lever will remain in the "UNWIND" position until released when it will return to the "HOLD" position.

To wind the cable, push the lever forward to the "WIND" position. The winch will continue to wind until the lever is released. The engine speed can be varied between 1500 rpm and 2375 rpm to regulate the winch wind-in speed. When the control lever is released, the lever will return to the "HOLD" position.

Winch control lever operational

Yes

No

27. Attaching Cable to Winch Drum

If the crawler is equipped with a winch, attach the winch cable by one of the two following procedures.

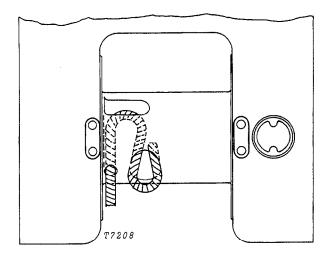


Fig. 34-Attaching Cable to Winch Drum

Thread cable through winch drum, fold end of cable back into drum, and pound it in.

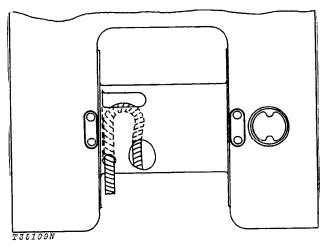


Fig. 35-Attaching Cable To Winch

To conform to certain state laws, the winch cable must be attached to the winch drum so that it can come loose if the cable is unwound.

Thread the cable through the winch drum as shown above and wind the cable onto the drum.

NOTE: When the cable is attached to the winch in this manner, unwinding the cable below five turns on the drum will allow the cable to disconnect from the drum.

Winch cable attached correctly

Yes No

28. Electric Return-to-Dig

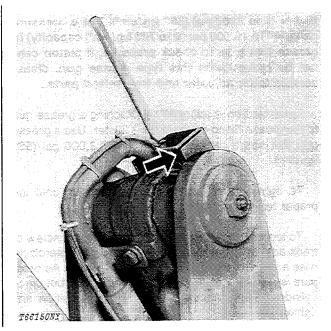


Fig. 36-Electric Return-To-Dig Switch

If adjusted properly, the bucket will be positioned in level or dig position when the boom is lowered to the ground.

To adjust the bucket positioner, loosen the two screws on top of the return-to-dig support. Adjust roller on boom switch lever so it is at least to the center of the tube when looking down the tube bore. Tighten the two screws.

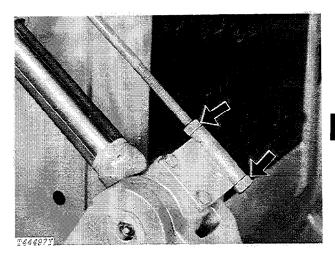


Fig. 37-Adjusting Indicator

To adjust the indicator, loosen the two nuts holding the indicator rod. Level the bucket and position the indicator rod so the end is flush with the end of the tube. Tighten the two nuts.

To adjust the spool switch on the control valve, loosen the two screws holding the switch. Position the switch so that the actuator pin will depress the lever on the bottom of the spool switch with the control valve handle in the bucket roll-back position.

Electric return-to-dig operational	Yes	No
Electric return-to-dig adjusted	Yes	No

Thank you very much for your reading. Please Click Here Then Get More Information.