

4030 Tractor



TECHNICAL MANUAL

4030 Tractor

TM1055 (01JAN78) English

John Deere Waterloo Works TM1055 (01JAN78)

> LITHO IN U.S.A. ENGLISH





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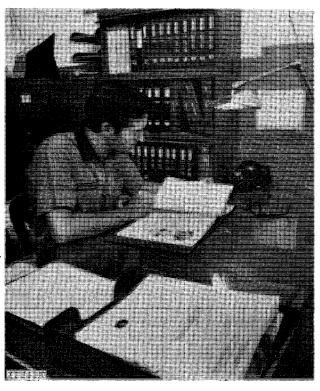


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INTRODUCTION



Use FOS Manuals for Reference

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

- FOS Manuals for reference
- Technical Manuals for actual service

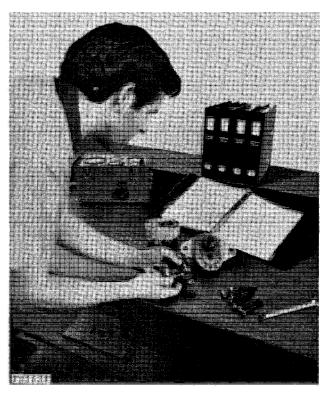
The two kinds of manuals work as a team to give you both the general background and technical details of shop service.

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 people and for reference by experienced people.

Technical Manuals are concise service guides for a specific machine. Technical Manuals are on-the-job guides containing only the vital information needed by a journeyperson mechanic.



When a serviceperson 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 reference.



Use Technical Manuals for Actual Service

Some features of this technical manual:

- Table of contents at front of manual
- Exploded views showing parts relationship
- Photos showing service techniques
- Specifications grouped for easy reference

This technical manual was planned and written for you — a journeyperson mechanic. 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.

Using the technical manual as a guide will reduce error and costly delay. It will also assure you the best in finished service work.

This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

Section 10 GENERAL

CONTENTS OF THIS SECTION

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GROUP 20—LUBRICATION Lubrication Chart	GROUP 30—SPECIFICATIONS, AND SPECIAL TOOLS
	Group 5
GENERA	L TRACTOR SPECIFICATIONS
PTO HORSEPOWER (2500 engine rpm): Diesel (official test)	ENGINE (Continued) Engine Speeds:
Gasoline (factory observed) 80	Working range 1500 to 2500 rpm
Gasoline (factory observed) 80 ENGINE Type 4-stroke cycle, 6-cylinder in-line, valve-in-head	Working range
ENGINE Type 4-stroke cycle, 6-cylinder in-line, valve-in-head Bore and Stroke Diesel 4.02 x 4.33 in. (102.1 x 109.9 mm)	Working range
ENGINE Type 4-stroke cycle, 6-cylinder in-line, valve-in-head Bore and Stroke	Working range
ENGINE Type 4-stroke cycle, 6-cylinder in-line, valve-in-head Bore and Stroke Diesel 4.02 x 4.33 in. (102.1 x 109.9 mm) Gasoline 3.86 x 4.33 in. (98.0 x 109.9 mm) Displacement Diesel 329 cu. in. (5396 cm³)	Working range

FUEL SYSTEM (Continued)	SYNCRO-RANGE TRANSMISSION	
Gasoline Pressure system, diaphragm-type fuel pump, single barrel updraft carburetor with electrical shut-off	Type Syncro-range, constant mesicultich Perma-Clutch Hydraulically operated	
CAPACITIES Fuel tank	multiple disk, wet clutch Gear selections 8 forward and 2 reverse Shifting 4 stations, synchronized forward speed shifting within stations	
Transmission-Hydraulic system** Quad-Range or Perma-Clutch 13 U.S. gals. (49.2 L) Belt pulley	QUAD-RANGE TRANSMISSION Type 2 speed, power shifted planetary and an 8 speed, syncro-range transmission with constant mesh gears	
Type	Perma-Clutch	
Gard Body Body (-16363) 55 amp 37 amp (16364-) 61 amp 37 amp	POWER TAKE OFF Type Independent PTO with rear power take-off controlled by hand-operated clutch lever. Stub shafts used for dual PTO speed conversion. Speed (2108 engine rpm) Dual speed	

PTO shaft to drawbar hitch point

^{**}Add approx. 4½ (17 L) gallons to capacity if equipped with Power Front Wheel Drive.

540	14 in.	(356 mm)
1000 rpm		

^{*}Add 2 U.S. qts (1.9 L) on tractors equipped with a heater.

2nd rev

GROUND SPEED IN MPH (km/h), 16.9-34 REAR **TIRES**

	SYNCRO-RANGE TRANSMISSION	
Gear	1500 rpm	2500 rpm
1st	1.2 (1.9)	2.0 (3.2)
2nd	1.9 (3.1)	3.1 (5.0)
3rd	2.4 (3.9)	4.0 (6.4)
4th	3.1 (5.0)	5.2 (8.4)
5th	3.8 (6.1)	6.3 (10.1)
6th	5.1 (8.2)	8.5 (13.7)
7th	6.4 (10.3)	10.6 (17.0)
8th	10.5 (16.9)	17.4 (28.0)
1st rev	2.4 (3.9)	

QUAD-RANGE TRANSMISSION Forward Range Speed Reverse 2500 1500 Α 1.1 (1.8) 1.9 (3.0) 1.9 (3.0) 3.1 (5.0)

3.7 (6.0)

	•	()	(0.0)	(0.0)	(0.0)
QUAD-RANGE TRANSMISSION					
Forward RPM				Revers	e RPM
Range	Speed	1500	2500	1500	2500
Α	1	1.1 (1.8)		1.9 (3.0)	3.1 (5.0)
	2	1.5 (2.4)	2.4 (3.9)	2.4 (3.9)	3.9 (6.3)
	3	1.9 (3.0)	3.2 (5.1)		
	4	2.4 (3.9)	4.0 (6.4)	_	
В	1	2.6 (4.2)	4.4 (7.1)	4.2 (6.8)	7.1 (11.4)
	2	3.3 (5.3)	5.5 (8.9)	5.4 (8.7)	9.0 (14.5)
	3	4.4 (7.1)	7.3 (11.7)		
	4	5.5 (8.9)	9.2 (14.8)	_	_
С	1	3.0 (4.8)	5.0 (8.0)	4.9 (7.9)	8.1 (13.0)
	2	3.8 (6.1)	6.4 (10.3)	6.2 (10.0)	10.4 (16.7)
	3	5.0 (8.0)	8.4 (13.5)		
	4	6.4 (10.3)	10.6 (17.0)	_	
D	1	4.6 (7.4)	7.7 (12.4)	_	
	2	5.9 (9.5)	9.8 (15.8)	_	_
	3	7.7 (12.4)	12.9 (20.8)	_	_
	4		16.4 (26.4)		_

HYDRAULIC SYSTEM

Type Closed center, constant pressure. Actuates power steering, power brakes, Power Front Wheel Drive, and implement control.

Standby pressure 2250 psi (155 Bar)

BRAKES

Type Hydraulically actuated power disk type operating in oil.

Type Hydraulically actuated power, manual operation in case of hydraulic failure.			
FRONT TIRES*	6.00	-16, 6-ply rating	
REAR TIRES*	16.9	-34, 6-ply rating	
WHEEL TREADS	See tractor op	erator's manual	
DIMENSIONS			
	Tractor with Roll-O-Matic less Roll-Guard	Tractor with wide front axle and Sound-Gard Body	
Wheel base	97¼ in.	101 in.	
	(2470 mm)	(2565 mm)	
Over-all length	154% in.	154% in.	
Height to	(3921 mm)	(3921 mm)	
muffler cover	85⅓ in.	114% in.	
	(2162 mm)	(2918 mm)	
Height to			
steering wheel	78½ in.		
-	(1994 mm)	_	
Height to top of			
Sound-Gard Body		107¼ in.	
	_	(2724 mm)	
Over-all width			
(regular axle)	86¼ in.	86¼ in.	
	(2190 mm)	(2190 mm)	
Shipping weight**	6846 lbs.	8440 lbs.	
	(3105 kg)	(3828 kg)	

^{*}Additional tire sizes available.

(Specifications and design subject to change without notice.)

^{**}With equipment for average field service, less fuel and ballast. Add 125 lbs. (57 kg) if equipped with a Quad-Range transmission. Add 450 lbs. (204 kg) for a 4-post Roll-Gard. Subtract 250 lbs. (113 kg) for tractors with a gasoline engine.

Group 10

Reference

PREDELIVERY, DELIVERY AND AFTER-SALE SERVICE

PREDELIVERY SERVICE

Specification

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.

A tag pointing out the factory-recommended procedure for predelivery service is attached to each new tractor before it leaves the factory.

After completing the factory-recommended dealer checks and services listed on the predelivery tag, remove the tag from the tractor and file it with the shop order for the job. The tag will certify that the tractor has received the proper predelivery service when the portion of the customer's John Deere Delivery Receipt is completed.

Temporary Tractor Storage

Check radiator for coolant loss and antifreeze protection	inches above baffle	
Reduce shipping pressure of tires	******************	Operator's manual
Cover tractor and tires for protection and cleanliness	•••••	
Before Delivering Tractor		
Service	Specification	Reference
COOLING SYSTEM		
Inspect radiator for coolant loss11/2	inches above baffle	
Check antifreeze protection		
ELECTRICAL SYSTEM		
Install electrolyte and charge batteries		FOS-20
Date code battery	*********	FOS-20
Install light switch knob		
Clean terminals and connect battery cables		Section 40, Group 5
Check light operation and adjustment. Remediasher if required by local government reg		Operator's manual

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Before Delivering Tractor—continued

Before Delivering Tractor—conti	nued	
Service	Specification	Reference
TIRES AND WHEELS		
Adjust pressure of tires		. Operator's manual
Check front wheel hub bolts, rear wheel rim clamp nuts, and rear wheel retainer cap screws for tightness	Rear hub bolts — 300 ft-lbs	
LUBRICATION		
Check crankcase oil level	. To upper marks on dipstick	Operator's manual
Check transmission-hydraulic system oil level	.To top of "SAE" range on dipstick. Type 303 Special-Purpose Oil	Operator's manual
Lubricate grease fittings	.John Deere Multi-Purpose Lubricant or an equivalent SAE multipurpose- type grease	Operator's manual
Check distributor lubrication	. Distributor cam lubricant	Section 40, Group 25
ENGINE		
Check air cleaner		. Operator's manual
Fill fuel tank	. Diesel and gasoline — 35 U.S. gallons	Operator's manual
Start engine		. Operator's manual
Check operation of flasher, gauges, and indicator lamps		. Operator's manual
Check throttle linkage for free operation		. Section 30, Group 25
Check engine timing	. Diesel — TDC Gasoline — S mark 24° BTDC, 2500 rpm	Section 30, Group 15 Section 40, Group 25
Check engine idle speeds	.Fast idle — 2660 rpm diesel; 2700 rpm gasoline Slow idle — 800 rpm	Section 30, Group 25

Before Delivering Tractor—conti	nued	
Service OPERATION	Specification	Reference
Shift transmission through all speeds .		. Operator's manual
Check power takeoff operation		. Operator's manual
Check differential lock operation		. Operator's manual
Check brakes and brake accumulator	Not to exceed 3 in. immediately after stopping engine	Section 70, Group 25
Check hydraulic system operation: Rockshaft, steering, and remote cylinder		. Operator's manual
Check implement hitch operation		. Operator's manual
Check seat operation		. Operator's manual
Check operation of air conditioning system and heater system (if equipped)		. Operator's manual
Check air conditioner compressor drive belt	¼ in. deflection, 15 lb. pull	Operator's manual
Check Sound-Gard Body mount caps	. Tighten until effort is required to rotate cap by hand (early models without holes); 9-11 ft-lbs torques required to rotate cap (late models with holes).	Section 10, Group 25
Adjust headlights and check operation		. Operator's manual
GENERAL		
Tighten accessible nuts and cap screws		
Clean tractor and touch up paint		

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DELIVERY SERVICE

A thorough discussion of the operation and service of a new tractor at the time of delivery helps to assure complete customer satisfaction. Proper delivery should be an important phase of a dealer's program. A portion of the John Deere Delivery Receipt emphasizes the importance of proper delivery service.

Many complaints have arisen simply because the owner was not shown how to operate and service his new tractor properly. Spend enough time, at the customer's convenience, to introduce the owner to his new tractor and explain to him how to operate and service it properly.

The following procedure is recommended before the serviceman and owner complete the delivery acknowledgments portion of the delivery receipt.

Using the tractor operator's manual as a guide, be sure that the owner understands these points thoroughly:

- 1. Controls and instruments.
- 2. How to start and stop the engine.
- 3. The importance of the break-in period.
- 4. How to use liquid or cast-iron ballast.
- 5. All functions of the hydraulic system.
- 6. Using the power takeoff.
- 7. The importance of safety.
- 8. The importance of lubrication and periodic services.

After explaining and demonstrating the above features, have the owner sign the delivery receipt and give him the operator's manual.

AFTER-SALE INSPECTION

Purpose of Inspection

The purchaser of a new John Deere tractor is entitled to a free inspection within the warranty period after the equipment has been "run in." The terms of this after-sale inspection are outlined on the back of the John Deere Delivery Receipt.

The purpose of this inspection is to make sure that the customer is receiving satisfactory performance from his tractor. At the same time, the inspection should reveal whether or not the tractor is being operated, lubricated, and serviced properly.

If the recommended after-sale service inspection

is followed, the dealer can eliminate a needless volume of service work by preventing minor irregularities from developing into serious problems later on. This will promote strong dealer-customer relations and present the dealer an opportunity to answer questions that may have arisen during the first few days of operation. During the inspection service, the dealer has the further opportunity of promoting the possible sale of other new equipment.

The following inspection program is recommended within the first 100 hours of tractor operation.

Inspection Procedures

Service	Specification	Reference
COOLING SYSTEM		
Check radiator coolant level11/2	inches above baffle	
Clean external surface of radiator core		
Check hoses and connections for leaks		
FUEL SYSTEM		
Drain contaminants from sediment bowl (Gasoline), and from filter		
(Diesel)		Operator's manual

Inspection Procedure—continued Service **Specification** Reference Tighten loose connections and check entire system for leaks. Correct if necessary Check air cleaner cup, element, and unloading valve. Clean element if necessary Operator's manual **ELECTRICAL SYSTEM** Check specific gravity of battery(s) ... Full charge — 1.260 at 80°F Operator's manual Check level of battery electrolyte To bottom of filler neck in each cell Operator's manual Check belt tension1-inch deflection, 25-pound force Operator's manual Start engine and check action of LUBRICATION Check crankcase oil levelTo upper marks on dipstick Operator's manual Check transmission-hydraulic John Deere Type 303 Special-Purpose Oil Operator's manual Check distributor lubrication Distributor cam lubricant Section 40, Group 25 **ENGINE** Check valve clearance Diesel, Intake — 0.014 in. Exhaust — 0.018 in. Gasoline, Intake — 0.014 in. Exhaust — 0.022 in. Operator's manual Check engine speed under load, fuel consumption, and horsepowerGroup 15 of this Section HYDRAULIC SYSTEM Check rockshaft and remote cylinder operation Operator's manual Check power steeringSmooth, easy operation Section 70, Group 20 Check brakes and brake stopping engine. Section 70, Group 25

Inspection Procedure—continued

Service	Specification	Reference
CLUTCHES and		
DIFFERENTIAL LOCK		

system for proper operation
(if equipped)Operator's manual

NUTS and CAP SCREWS

TORQUE CHART

RECOMMENDED TORQUE IN FT-LBS COARSE AND FINE THREADS







Bolt Diameter	Plain Head*	Three Radial Dashes*	Six Radial Dashes*
1/4	6	10	14
5/16	13	20	30
3/8	23	35	50
7/16	35	55	80
1/2	55	85	120
9/16	7 5	130	175
5/8	105	170	240
3/4	185	300	425
7/8	160	445	685
1	250	670	1030

*The types of bolts and cap screws are identified by head markings as follows:

Plain Head: regular machine bolts and cap screws (B-grade).

3-Dash Head: tempered steel high-strength bolts and cap screws (D-grade).

6-Dash Head: tempered steel extra high-strength bolts and cap screws (F-grade).

Group 15 TUNE-UP

Before tuning up a tractor, determine whether a tune-up will restore operating efficiency. When there is doubt, the following preliminary tests will help to determine if the engine can be tuned up. If the condition is satisfactory, proceed with the tuneup. Choose from the following procedures only those necessary to restore the unit.

Preliminary Engine Testing

Operation	Specification	Section-Group Reference
Dynamometer Test (at 2500 engine		
	Compare with previous recorded output; compare with output after tune- up. See chart below	FOS 30 Manual, Chapter 12
Compression Test		
Diesel	· ·	FOS 30 Manual, Chapter 12
Manifold Depression Test (gasoline)	.15-20 inches mercury at slow idle	FOS 30 Manual, Chapter 12
Engine Coolant Check Test	. No air bubbles or oil film in radiator	FOS 30 Manual, Chapter 12
Engine Tune-up		
Operation	Specification	Section-Group Reference
		FOS 30 Manual, . Chapter 12
Check system for restrictions using water manometer Normal reading (inches of water	· · · · · · · · · · · · · · · · · · ·	. 30-10
Diesel—with extension		30-10
without extension		30-10
	ENGINE-PTO SPEED RELATIONSHIP	
V	Diesel and Gasoline, equipped with Syncro-Range or Quad- Range transmission)	
Engine RPM	PTO Speed	Rated PTO Horsepower*
2108	540 or 1000	77.72
2500 (Full load)	639 or 1186	80.33
2660 (Diesel fast idle)	680 or 1262	
2700 (Gasoline fast idle)	690 or 1281	

*Diesel, Official Test

Engine	Tune-up-	continued
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Engine Tune-up—continued	
Operation Specification	Section-Group Reference
Air Intake System—Continued	
Normal reading (inches of water):	
Gasoline—with extension4½ in. at 2500 rpm (full load)	30-10
without extension3½ in. at 2500 rpm (full load)	30-10
Maximum permitted reading25 in. at 2500 rpm (full load)	30-10
Check restriction indicator light operation24-26 in. at 2500 rpm (full load)	30-10
Full accent Constant	
Exhaust System Check system for leaks	FOS 30 Manual
Officer system for leaks	Chapter 12
Check muffler and exhaust pipe	
for restrictions	FOS 30 Manual, Chapter 12
Crankcase Ventilating System	
Check system for restrictions	FOS 30 Manual.
	Chapter 12
Cooling System	
Clean grille screen, radiator core,	
and oil cooler core	20-30
thermostat	20-30
Check pressure cap6.25 to 7.50 psi release pressure	20-30
Cylinder Head and Valves	
Tighten cylinder head cap screws110 ft-lbs in torque sequence	20-10
Set valve clearance	20-10
Exhaust 0.018 in.	
Gasoline — Intake 0.014 in.	20-10
Exhaust 0.022 in.	
Ignition System	
Inspect system; install new points,	
condenser, and plugs (if existing	
ones are good, clean and regap	
them)	
Contact point gap0.020 in.	40-25
Cam angle36° to 48°	40-2 5
Spark plug gapGasoline — .025 in.	40-25
Time distributor (2500 engine rpm) Gasoline — S mark 24° BTDC	40-25
Gasoline Fuel System	
Clean sediment bowl	
Check system for leaks	
Check fuel pump pressure3½ to 4½ psi	30-20
Clean carburetor inlet screen	
Drain carburetor bowl	
Install new filter	
Oneon onone operation	

Engine Tune-up—continued

Linging rung-up-committed		
Operation	Specification	Section-Group Reference
Gasoline Fuel System—Continued Check carburetor mixture (load)		
adjustment		30-20
Adjust speed control linkage		30-25
	2660 rpm, diesel Slow idle — 800 rpm	
Diesel Fuel System		
Check fuel tank for water		30-15
Check fuel pump pressure	3½ to 4½ psi	30-15
Change filter		30-15
Injection Pump:		
Service and check timing	.TDC	30-15
	4° advance at 1500 rpm (full load)	30-15
Adjust speed control linkage	Fast idle — 2660 rpm with ¼ in. spring override	30-15
	Slow idle — 800 rpm with 1/4 in.	
	spring override	
Lubrication System		
Check engine oil pressure	25-40 psi at 1900 rpm	30-25
Charging System		
Check battery specific gravity Check battery water consumption	1.240 — 1.260	40-10
•		40-10
Clean battery, cables, and box		40-10
	25 lbs. at 1 in. belt deflection	40-10
Check alternator output	. Tractors without Sound-Gard body:	40-10
	32 amps at 13-15 volts ,1925 engine	
	rpm gas, 1925 rpm diesel, at 5000	
	alternator rpm)	
	Tractors with Sound-Gard body:	
	50 amps at 13-15 volts (1925 engine	
	rpm, at 5000 alternator rpm)	
Check alternator regulated voltage	14.2 — 14.6 volts (operating)	40-10

Engine Tune-up—continued		
Operation	Specification	Section-Group Reference
Starting System		
·	•••••	. 40-15 & 20
Check battery voltage when starting Check starter current draw		40-15 & 20
and oil pressure indicator lights	Gasoline — approx. 250 amps	40-25
Final Engine Testing		
Carburetor mixture	lse exhaust gas analyzer and dynam- ometer	FOS 30 Manual, Chapter 12
DynamometerC	compare with previous recorded output; record for future use	FOS 30 Manual, Chapter 12
Tractor Tune-up		
Transmission Check shifting		. 50-15
• • •		50-15 & 20
Perma-Clutch system pressure10	05-115 psi	50-20
Power Take Off Check engagement feel Check for excessive noise		
Check differential lock operation 4	20-480 psi	50-30
Check brake pedal travel and even position	in. max. for one emergency applica- tion immediately after stopping en- gine	70-25
Check front wheel bearing adjustment and lubrication		