

8430 and 8630 Tractors



TECHNICAL MANUAL

8430 and 8630 Tractors

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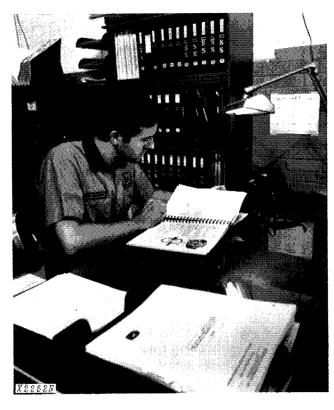
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Group 20 - John Deere Charging Circuit	All rights reserved
Group 25 - Delco-Remy Starting Circuit	
October 20 - Jakes Description Objective October 2	

Group 30 - John Deere Starting Circuit

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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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 personnel and for reference by experienced technicians.

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



When a service person 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—an experienced 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.

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.

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Horsepower:*	TRACTOR SPECIFICATIONS Firing order
Horsepower:* Maximum observed at PTO	TRACTOR SPECIFICATIONS Firing order
Horsepower:* Maximum observed at PTO 8430175 (130 kW)	TRACTOR SPECIFICATIONS Firing order
Horsepower:* Maximum observed at PTO	TRACTOR SPECIFICATIONS Firing order
Horsepower:* Maximum observed at PTO 8430	TRACTOR SPECIFICATIONS Firing order
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Horsepower:* Maximum observed at PTO 8430	TRACTOR SPECIFICATIONS Firing order

Fuel Cran 84 86 Tran sy Cool 84	cities: tank 78 U.S. gals. kcase (with filter change) 30 2 30 2 smission-hydraulic stem 34 ing system 30 4 530 4 t differential	22 U.S. qts. 26 U.S. qts. U.S. gals. 40 U.S. qts. 44 U.S. qts.	(21 I) (25 I) (129 I) (38 I) (42 I)	Electrical System: Type
				Alternator 12-volt, with transistorized
	-Range Transmission			regulator; 72 amp
iype	e 2 speed, Power S			Power Take-Off:
	8 speed, syncro-i	ange transn istant mesh		Type Independent PTO with rear power
Perr	na-Clutch Hydraulically		ultiple-	take-off controlled by hand-operated clutch lever
Gea Shift	r selections 16 forw			ClutchMultiple disk, wet clutch, hydraulically actuated
	ange selector lever Coll		etween ranges	Speed (2100 engine rpm)1000 rpm
s	peed selector lever		· u. · guu	Hydraulic System:
	Forward-rearward lever m	ove-		Type Closed center, constant pressure. In-
	ment Mechanical sy	nchronized f	orward	cludes power steeing, power brakes,
	speed shifting of syncro-			implement control, and transmission and
	Sideways lever movement			differential lubrication
	planetary tra	ansmission	speeds	Standby pressure 2300 psi (15.8 MPa)
Ground	d speeds at 2100 engine r	pm, 18.4-34	l tires	Brakes Hydraulically power-actuated disk-type operating in oil
Range	Speed	mph	(km/h)	
Α	1		(3.3)	Tires (standard)* 18.4-34, 6-ply rating
	2		(4.2)	
	3		(6.0)	Wheel Tread:See operator's manual
	4		(7.7)	Dimonologo
	1R,		(6.2)	Dimensions:
_	2R		(8.0)	Wheel base
В	1		(7.3)	Over-all length
	3		(9.5)	Over-all height to top
	4		(13.2) (17.1)	of muffler
	1R		(17.1)	-long axle 118.4 in. (3.008 m)
	2R		(13.0)	Turning radius (80-in. [2.03 m]
C ·	1		(8.6)	tread)
	2		(11.1)	,
	3		(15.5)	Shipping Weight (With equipment for average
	4		(20.1)	field service, less fuel and ballast)
D	1		(13.9)	8430 22,010 lbs. (9 984 kg)
	2		(18.0)	8630 24,150 lbs. (10 954 kg)
	3		(25.1)	
	4	20.3	(32.6)	*Additional tires sizes available **Later models

**Later models

Group 10 PREDELIVERY, DELIVERY AND AFTER-SALE SERVICE

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.

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.

NOTE: A Caplug is placed in the muffler outlet to prevent turbocharger rotation during transit. Remove Caplug before unloading tractor. Reinstall Caplug before transporting the tractor to the customer.

Temporary Tractor Storage Service	Specification	Reference		
Check radiator for coolant loss and antifreeze protection	1-1/2 in. (38 mm) above baffle in radiator top tank.			
Reduce shipping pressure of tires.		Operator's manual		
Cover tractor and tires for protection and cleanliness				
Before Delivering Tractor				
ELECTRICAL SYSTEM				
Charge batteries		FOS - 20 Manual		
Install light switch knob				
Clean terminals and connect battery cables		Section 40, Group 5		
Check alternator belt adjustment	85-94 ft-lb (378 to 423 N)	Operator's manual		
COOLING SYSTEM				
Inspect radiator for coolant loss	1-1/2 in. (38 mm) above baffle in radiator top tank.			
Check antifreeze protection				
Tighten radiator hose clamps				
Tighten hase connections				

10-2 Predelivery, Delivery, and After-Sale Services

Before Delivering Tractor—Continued Specification Reference Service TIRES AND WHEELS Adjust pressure of tires Operator's manual Rim clamp nuts-170 ft-lbs Check wheel rim clamp nuts (230 Nm) and wheel retainer cap screws Retainer cap screws-300 ft-lbs for tightness (407 Nm) For single wheel operation, set front and rear wheel tread to a minimum of 80 in. (2.03 m) and add at least 1000 lb. (454 kg) ballast to each wheel..... Operator's Manual Operator's Manual For hillside operation, use double wheels only LUBRICATION Check crankcase oil level..... To upper marks on dipstick Operator's manual To top of "SAFE" range on Operator's manual Check transmission-hydraulic dipstick. John Deere Hysystem oil level GARD[™] Transmission and Hydraulic Oil To level of filler plug Operator's manual Check front differential oil opening. SAE 90 gear and level Section 50, Group 30 lubricant John Deere Multipurpose Operator's manual Lubricate grease fittings Lubricant **ENGINE** Operator's manual Check air cleaner Tighten air intake hose clamps.... Capacity 78 U.S. gallons Operator's manual Fill fuel tank and start engine (295 I) each tank Check operation of starter, alternator, flasher, gauges, Operator's Manual and indicator lights Section 20, Group 10 TDC Check engine timing..... 800 rpm, slow idle speed Section 30, Groups 15 Check engine speeds

2300 rpm, fast idle speed

and 20

Before Delivering Tractor—Continued

Service Specification		Reference
OPERATION		
Shift transmission through all speeds		Operator's manual
Check throttle linkage for free operation		Section 30, Group 20
Adjust headlights and check operation		Operator's manual
Check power takeoff operation		Operator's manual
Check brakes and accumulator	3 in. (7.6 cm) maximum travel when brakes have been bled, and accumulator is working properly	Operator's manual
Check air conditioning, heater, and pressurizer operation		Operator's manual
Check hydraulic system operation; steering, rockshaft, and remote cylinder		Operator's manual
Check seat operation	· · · · · · · · · · · · · · · · · · ·	Operator's manual
GENERAL		
Tighten accessible nuts and cap screws		
Clean tractor and touch up paint		

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 has 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.

IMPORTANT: Install Caplug in muffler outlet if transporting tractor to customer. This will prevent damage to the turbocharger caused by air passing through the turbocharger and rotating it without lubrication when the engine is stopped.

The following procedure is recommended before the service person 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

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 Procedure

Service	Specification	Reference
COOLING SYSTEM		
Check radiator coolant level	1-1/2 in. (38 mm) above baffle in radiator top tank	
Clean external surface of radiator core		
Tighten hose clamps and check connections for leaks		
FUEL SYSTEM	,	
Remove water and foreign matter from filter sediment bowl		Operator's manual
Bleed fuel system		Operator's manual
Tighten loose connections and check entire system for leaks, correct if necessary		
Check air cleaner elements and aspirator. Clean primary element if necessary		Operator's manual
ELECTRICAL SYSTEM		
Check specific gravity of batteries .	Full charge - 1.260 at 80°F (27°C)	Operator's manual
Check level of battery electrolyte	To bottom of filler neck in each cell	Operator's manual Operator's manual
Check alternator belt tension	85-94 lbs. (378-423 N)	Operator's manual

Inspection Procedure—Continued

Service	Specification	Reference
Start engine and check operation of starter, lights, and indicator lamps		Operator's manual
LUBRICATION		
Check crankcase oil level	To upper marks on dipstick	Operator's manual
Check transmission-hydraulic system oil level	In "SAFE" range on dipstick. Use John Deere Hy-GARD Transmission and Hydraulic Oil	Operator's manual
Check front differential oil level	To level with filler plug opening Use SAE 90	
	Gear Lubricant	Operator's manual and
		Section 50, Group 30
ENGINE		
Check valve clearance	Intake: 0.013 to 0.017 in. (0.33 to 0.43 mm) Exhaust: 0.023 to 0.027 in. (0.58 to 0.68 mm)
Check engine speed under load, fuel		
consumption, and horsepower	Specification	Group 15 of this Section.
Check air intake connections		
TRACTOR AND POWER TRAIN		
Shift transmission through all		Onevetov's manual
speeds	•••••	Operator's manual
Check power steering	Smooth, easy operation	Section 70, Group 20
Check brakes and accumulator	3 inches (7.6 cm) maximum brake travel when brakes have been bled and accumulator is working properly	Operator's manual
*Later model 6619 engine		

Inspection Procedure—Continued

Service	Specification	Reference
HYDRAULIC SYSTEM		
Check rockshaft and remote cylinder operation		Section 70, Group 30 and 35
Check entire tractor for leaks. Inspect drive shafts, hydraulic system pipes and hoses, and check tractor cab controls for proper operation		Operator's manual
NUTS AND CAP SCREWS		
Tighten accessible nuts and cap screws that seem to require adjustment		

TORQUE CHART

Diameter E	3-Grade*	D-G	rade*	F-Gra	ıde*	G-Grad	e*
lb-ft	Nm	ib-ft	Nm	lb-ft	Nm	lb-ft	Nm
1/4 inch 6	(8.1)	10	(13.6)	14	(19)	15	(20.3)
5/16 inch 13	(17.6)	20	(27.1)	30	(40.7)	32	(42.4)
3/8 inch 23	(31.2)	35	(47.5)	50	(67.8)	56	(75.9)
7/16 inch 35	(47.5)	55	(74.6)	80	(108.5)	92	(124.7)
1/2 inch 55	(74.6)	85	(115.3)	120	(162.7)	140	(189.8)
9/16 inch	(101.7)	130	(176.3)	175	(237.3)	200	(271.2)
5/8 inch 105	(142.4)	170	(230.5)	240	(325.4)	280	(379.7)
3/4 inch 185	(250.9)	300	(406.8)	425	(576.3)	497	(673.9)
7/8 inch 160	(217)	445	(603.4)	685	(928.9)	800	(1084.8)
1 inch 250	(339)	670	(908.5)	1030	(1396.7)	1200	(1627.2)

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

Plain Head: regular machine boits and cap screws.

³⁻Dash Head: tempered steel high-strength bolts and cap screws.

⁶⁻Dash Head: tempered steel extra high-strength bolts and cap screws.

^{12 9} or 12.9: tempered steel extremely high-strength bolts and cap screws.

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 tune-up. Choose from the following procedures only those necessary to restore the unit.

Preliminary Engine Testing

Operation	Specification	Section-Group Reference
Dynamometer Test (at 2100 engine rpm full load) (See Page 15-4 for PTO-Engine	Compare with previous recorded output; compare with output	
Speed relationship)	after tune-up	FOS - 30 Manual, Chapter 12
Compression Test	330-380 at 200-250 rpm	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
Air Intake System Service air cleaner and check system for leaks	Reading at 2100 rpm 8430 - 19 to 23 psi (131 to 159 kPa) 8630 - 14 to 17 psi (95 to 117 kPa)	FOS - 30 Manual, Chapter 12 30-10
Check system for restrictions using water manometer		FOS - 30 Manual, Chapter 12
Normal reading, inches of water (with clean filter elements) Maximum permitted reading	16 in. (40.6 cm) at 2100 rpm (full load) 25 in. (63.5 cm) at 2100 rpm (full load)	······································
Check restriction indicator light operation	24-26 in. (61.0-66.0 cm)	
Exhaust System Check system for leaks		FOS - 30 Manual, Chapter 12
Check muffler and exhaust pipe for restrictions		FOS - 30 Manual, Chapter 12

Engine Tune-up---Continued

Operation	Specification	Section-Group Reference
Crankcase Ventilating System		
- -		FOS -30 Manual, Chapter 12
Cooling System Clean grill screen, radiator		
		20-30, 25-30
thermostat	6.25 to 7.50 psi (43 to 52 kPa)	20-30, 25-30
	release pressure	20-30, 25-30
Tighten hose clamps		
8430 (in sequence)	125 to 135 ft-lbs (169 to 183 Nm) - "F" grade cap screws	
	135 to 165 ft-lbs (183 to 224 Nm) -	
	"G" grade cap screws	20-10
8630 (in sequence)	. 205 to 215 ft-lbs (278 to 293 Nm)	25-10
8430		
	Exhaust: 0.028-in. (0.71 mm)	20-10
8630	Intake: 0.013 to 0.017 in. (0.33 to 0.43 mm)	
	Exhaust: 0.023 to 0.027 in.	
	(0.58 to 0.68 mm)	25-10
Diesel Fuel System		
		30-15
	Approx. 20 psi (138 kPa)	30-15
Change filter		30-15
	. TDC	30-15
Adjust throttle linkage	. 2300 rpm fast idle speed	30-20
	800 rpm slow idle speed	30-20
Lubrication system		
Check engine oil pressure		
	and 8630)	20-25, 25-25
Charging System		40.40
Check battery specific gravity Check battery water consump-	. 1,240 - 1,260	40-10
tion and electrolyte level		40-10
	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	40-10
Check alternator belt tension	. 85-94 lbs (423 to 467 N)	40-10
Check alternator output	. 65 amps minimum (2000 engine rpm)	40-10
_	. 14.1 - 14.7 volts (operating)	40-10

Engine Tune-Up—Continued

Lingine rune-op—continucu		
Operation	Specification	Section-Group Reference
Starting System Check start-safety switch		
operation		40-15
starting	Min. 9 volts (cranking)	40-15
Check starter current draw Check operation of gauges and	Approx. 525 amps	40-15
indicator lights		40-25
Final Engine Test		
Operation	Specification	Section-Group Reference
Dynamometer Test (at 2100		
engine rpm)	Compare with previous recorded output; record for future use	FOS - 30 Manual - ENGINES, Chapter 12
Tractor Tune-up		
		Section-Group
Operation Transmission	Specification	Reference
		50-10 & 20
without excessive noise Power Take-Off		50-20
Check for proper operation		
without excessive noise Check brake pedal travel	3-inch (7.6 cm) maximum travel with brakes bled and with accumulator	50-15
	working properly	70-25
Check tire inflation	See operator's manual	
main pump inlet)	10 gpm (0.63 l/s) at 2100 rpm Standby pressure—2200 to	70-15
	2300 psi (15.2 to 15.9 MPa)	70-15
Pressure control valve	at 2000 psi (13.8 MPa) and 1750 rpm	70-15
Selective control valve	MPa) at 800 rpm	70-10
Coloration College Tailor	at 1500 psi (10.34 MPa) and	
	1750 rpm	70-35

Tractor Tune-Up—Continued

Operation	Specification	Section-Group Reference
Rockshaft:		
Lift cycle time (75 degrees		
rotation)	2.7 to 2.9 seconds at 2100 rpm	70- 5
Maximum oil flow	16 gpm (1.01 l/s) at 2000 psi	
	(13.8 MPa) and 1900 rpm	70-30
Lever position (ZERO		
load control)	Just fully raised with lever front	
	edge at "0" on quadrant	70-30

Hydraulic system pressures, flow rates, or cycle times are for conditions specified in Section 70---transmission-hydraulic oil at 140 to 160°F (60 to 71°C), proper test equipment, correct test sequence, etc.

ENGINE-PTO SPEED RELATIONSHIP

Engine RPM	PTO Speed	Rated PTO Horsepower*
2100 (Full load)	993	175 (8430); 225 (8630)
2300 (Fast idle)	1088	_

^{*}Factory Observed.

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