





TECHNICAL MANUAL
John Deere 1020, 1120 and 1630
Tractors

TM4286 (01AUG73) English

TM4286 (01AUG73)

LITHO IN U.S.A. (NEW) ENGLISH



J020, 1120 and 1630 Troclors

(1020 and 1120 Tractors from Serial No. 115000L)

Technical Manual TM-4286 (Aug-73)

CONTENTS

SECTION 10 — GENERAL

- Group 5 Specifications
- Group 10 Pre-d elivery, delivery and after-sales inspections
- Group 15 Lubrication and periodic service
- Group 20 Engine and tractor tune-up
- Group 25 Tractor separation

SECTION 20 — ENGINE

- Group 5 General information, diagnosing malfunctions
- Group 10 Cylinder head and camshaft
- Group 15 Cylinder block, liners, pistons and connecting rods
- Group 20 Crankshaft, main bearings and flywheel
- Group 25 Timing gear train
- Group 30 Oil pump, oil pressure regulating valve, oil cooler and oil filter
- Group 35 Engine cooling system
- Group 40 Speed control linkage

SECTION 30 — FUEL SYSTEM

- Group 5 Diagnosing malfunctions
- Group 10 fuel tank, water trap, transfer pump and fuel filter
- Group 15 ROTO DIESEL fuel injection pump
- Group 20 Fuel injection nozzles
- Group 25 Cold weather starting aids

SECTION 40 — ELECTR ICAL SYSTEM

- Group 5 Diagnosing malfunctions
- Group 10 "Bilux" lighting system
- Group 15 Sealed-beam lighting system (on earlier tractor models)
- Group 16 Sealed-beam lighting system (on later tractor models)
- Group 20 Starting motor
- Group 25 Alternator and regulator

SECTION 50 — POWER TRAIN

- Group 5 Engine clutches and clutch lin kage
- Group 10 HIGH-LOW shift unit
- Group 15 Collar-sh ift transmission
- Group 20 Differential
- Group 25 Final drives
- Group 30 Independent PTO
- Group 35 Continu ous-running PTO

SECTION 60 — FRONT AXLE, STEERING SYSTEM AND BRAKES

- Group 5 Front axle
- Group 10 Steering system
- Group 15 Hydraulic brak es

SECTION 70 — HYDRAULIC SYSTEM

- Group 5 General information, diagnosing malfunctions, and pressure tests
- Group 10 Oil reservoir, filter, valves and oil cooler
- Group 15 Hydraulic pump and transmission oil pump
- Group 20 Rockshaft
- Group 25 Selective control valves
- Group 30 Remote cylinder

SECTION 80 — MISCELLANEOUS

- Group 5 Belt pulley
- Group 10 Seats
- Group 15 Front and rear wheels
- Group 20 Roll guard

All information, illustra tions, and speci/icotions con tained in this technical manual are based on the la test information available a I the tim e of publication. 'The right is reserved to make changes at and time mithou I notice.

Section JO

General

CONTENTS OF TH IS SECTION

GROUP 5 — SPECIFICATIONS		GROUP 15 — LUBRICATION AND	
	Page	PERIODIC SERVICE	Page
Serial numbers	.5-2	Lubrication and periodic service	15-1
Model numbers	5-2	1	
Engine	5-2		
Engine clutch	5-2	GROUP 20 — ENGINE AND TRACTOR	
Electrical system	5-2	TUNE-UP	
Transmission	5-3		
HIGH-LOW shift unit	5-3	General information	20-1
Differential and final drives	5-3	Preliminary engine testing	20-1
Differential lock	5-3	Enginetune-up	20-2
PTO	5-3	Checking engine performance	20-3
Hydraulic system	. 5-3	Tractor tune-up	20-3
Power steering	. 5-3	Standard torques	20-5
Manual steering	5-3	Special tools	20-5
Hydraulic brakes	5-3	•	
Handbrake	5-3		
Capacities .	5-3	GROUP 25 — TRACTOR SEPARATION	
Travel speeds	5-3 5-3		
Front and rear wheels		Separating between engine and	
Dimensions and weights	5-3	tractor front end	25-1
		Removing and installing engine	25-3
		Rem oving and installing	
GROUP 10 — PREDELIV ERY, DELIVERY		clutch housing	25-5
AND AFTER-SA LES INSPEC-		Rem oving and installing	
TIONS		final drives	25-7
	10 1	Removing and installing	
Predelivery inspection	10-1	rockshaft	25-8
Delivery inspection	10-4	Torques for hardware	. 25-9
After-sales inspection	10-4	Special tools	25-10

Specificotions

SER IAL NUMBERS

The engine serial number is stamped into the name plate located on the lower front right-hand side of the cylinder block.

NOTE: I f ord ering engine parts, indicate a II digits of the seria I numb er or the name p late.

The name plate showing the tractor serial number is located on the right-hand side of the front support.

NOTE.' I f ordering trac tor parts, excfttding engine parts), ind icate a II d igits of the seria I number or the name plate.

MODE L **NUMBERS**

The injection pump, injection nozzles, alternator, starting motor and hydraulic pump have model numbers to facilitate identification of different makes of a given unit.

SPECI F ICATIONS

ENC	ŝΙΝ	١E
-----	-----	----

Number of cylinders	. 3
Cylinder liner bore 1020 and 1120 16 30	1 2 mm (4.02 in.) 106.5 mm (4.19 in.)
Stroke	. 110 mm (4.33 in.)
Displacement 1020 and 1120 1630	2688 cm (164 cu.in.) 2938 cm (179 cu.in.)
Compression ratio 1020 and 1120 1630	
Maximum torque 1020 at 1500 rpm 1120 at 1500 rpm 1630 at 1400 rpm 19.0 mk	- 17.0 mkp (123 ft.lbs.)
order	1-2-3
Valve clearance (engine hot of Intake valve	$-0.35 \mathrm{mm} (0.014 \mathrm{in.})$

Fast idle	2650 rpm
Slow idle	6 rpn O
Working speed range	. 1500 to 2500 rpm

Flywheel horsepower at 2500 rpm

1020	1120	1630
46 HP (33.8 kw) *	51 HP (37. 5 kw)*	5 6 HP (41.2 kw)*
48 HP (35.8 kw) **	63 HP (39.6 kw)**	69 HP (44.0 kw)* *

^{*} With accessories (DIN 70020) comprising : water pump, fan, alternator, air cleaner and muffler

PTO horsepower* at 2500 rpm engine speed and 650/1210 rpm PTO shaft speed

1020	i 1120	1630	
43 PS (31.6 kw)** 40 HP (29.9 kw)***	48 PS (35.3 kw)* * 45 HP (3 3.6 kw) ***	62 PS (38.2 kw)** 49 HP (36.6 kw)***	

^{*} With engine run in (mo re than 100 hours of operation) and having reached operating temperature (engine and transmission); measured by means of a dy namometer. Permissible variation + 590.

ELECTR ICAL SY STEM

Batteries	2 x 12 volts,
Starting motor	55 ampere-hours 1 volts, 4 HP
Alternator	14 volts, 28 amps.
Battery terminal grounder	dnegative

ENGINE CLUTCH

Dual dry disk clutch, foot operated.

Single dry disk clutch with torsion damper (isolator), foot-operated (on tractors equipped with independent PTO).

^{**} Less accessories (SAE J 816 b)

^{**} DIN 70020

^{***} SAE J 816 b

TRAN SM I SSIO N

Collar shift transmission with helical cut gears.

'I'his transmission is available in two variations:

8 speed transmission with parking track, iVithout independent hand brake;

8 speed transmission with out park ink lock anal with independent hand hi-ake.

ñ'ith this transmission 8 forward and 4 reverse speerls are availahle.

I II GI I-LOW SI I I FT UNIT

I lydraulically controlled reduction gear which can he shifted under load, with "wet" multiple disk clutch and "wet" multiple disk h rak e. Allows reduction of the inrlividual gear speeds by 217•.

DIP FERENTIAL AND FINAL DRIV EN

Planetary reduction gear and differential with spiral bevel gears.

DIFF ARE N'1'IAL LOCK

Hand or foot operated; spring-loade (l out of engagement.

PTO

font inuous Runnin PTO

The PTO shafts are independent of .the transmission if the tractor is equipped with a dual stage engine clutch.

Ind epe.nd cut PTO

Inclependent of transmission, can be engaged and disengaged under load.

)'he independent P)'O shaft is engagerl by a hydraulically operated disc clutch. Disengaging the clutch is achieved by operating the hydraulically actuated band type brake.

PTO Sha(t Speed s (in rpm)

Engine Speed rpm	540 rpm shaft	1000 rpm shaft
650	169	815
2067	588	1000
2075	540	1004
2500	650	1210
2650	689	12H3

HYDRAtJ LIC SYSTEM

Closed center, constant pressure system; also includes rockshaft, pew cr steering and selective control valves.

Spend- by pr essu re	15G to 160 kp/c m ² (2220 to 2280 psi)
Pu mp	4 or S-pist(an pump driven by the engine

POWER STE ERIN U

The steering system is a "closed center" type incorporated in the hydraulic system and supplied with oil by the tractor hydraulic pump. It is connected to the front wheels by means of a steering linkage.

MANUAL S"I'EE1tI NG

The manual steering is a recirculating ball bearing, worm and nut type. A num her of steel balls between ball nut and steering wheel shaft provide for positive engagement of steering wheel and steering linkage.

HYDRAULIC BRAKES

The disk brakes run in an oil bath and are hyd raulically controlled.

HANDBRAKE

Band-type locking brake acting' on differential.

PAPA(/ITIFS	Ltr.	U S.gals.	Imp.gals.
Fuel tank 1020 and 1120 1630	62.5 74	16.5 19. 5	13.'75 16. 3
Cooling system 1020and 1120 1630	10.5 0	2.75 2.6	2.3 2.2
Engine crankcase incl, filter Tra nsm iss io n -hydraulic	5.7	1.5	1.25
system Dry system At service intervals Belt pulley	36.0 28.0 1.1	9.5 '7.4 0.3	7.9 6.2 0.25

3'RAV EL SPEEDS

See Operator's Manual.

FRONT AND REAR WHEELS

For tire sizes, treads, inflation pressure and weights see Operator's Manual.

DIMENSI ONS AND WEIGHTS

See Operator's Manual.

Gr4up JO

Predelivery, Delivery and After-Sole s Inspections

PREDELIV ERY SERVICE

F'very new JOHN DF FiRE tractor leaves the every nez tractor before it leaves the tae tory. The fartory in such a condition that it tan be dt livered to the customer after a minimum of scrvice.

complete '1'o promote customer satisfaction, proper predelivery service including mending o(possible shipping damage and giving the finishing touch es to the tractor, arc of prime importance to the healer.

A tab pointing out the factory-recommended procedure for predelivery service is attached to

reverse side of this tag is filled in by the factory afte)' the tractor has undergone a thorough inspection prior to shipping.

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 1.he job. The tag will then serve as (i basis for certifying that the unit has received the proper predelivery service.

TEMPORARY TRACTOR STORAGE

Service	Specifications	Reierencr
C"her'k radiatt>r for coolant loss and antifrecze prom ction (gravity of antifreeze and rust inhibitor mixture)	Coolant level sht>uld he mid - way hetween radiator core and bott <um edge="" filler<br="" of="">neck</um>	Operator's manu(il
IMPORTANT: When the tractor is delivered, red cable is not connected to alternator terminal "B+". F urther, the alternator three-terminal plug is nat connected. Connect cab le and plu g before oper ati ng tractor for the first time.		Section 40, group 10
If the tractor is to be operated for a short time w ithout battery (using a slave battery for starting), do nat, under any circumstances, interrupt the circuit by switching off the key switch before stopping engine by means of fuel pump shut-off cable. Further, it is recommended to use additional current (lights) while engine is running. Insulating tape on battery cable end leading to starting motor should not be removed. If this advice is disregarded, damage to alternator and regulator may result.		
Remove batteries. Drain electrolyte and store batteries	Store at room temperature	
Ileducc shipping pressure of tires		Operator's manual
Cover tractor and tires for prott ction and cleanliness	L	

PR EDE L IV E RY INSPECT ION

S ervice	Specifications	ReIcrnc
COOLING BY S1 EM		
Check raiiiator for (ooh arit loss	Co olant 1evel sh ould be rn idway between radiator core and bottom edge of filler neck	Operator's manua1
Check gravity of antitreeze and rust inhibitor mixture		Operator's munilal
ELECTRICAL SYSTEM		
IMPO RTANT: When t he tractor is delivered, red cable is not connected to alternator terminal "B+". F urther, the alternator three-ter mi nal pl ug is not con nected. Connect cab ie and plug before operating tractor for the first time.		Secion40, goup 1U
If the tramor is to be operated for a short time without battery (using a slave battery for starting), do not, under any circumstances, interrupt the circu it by switching off the key switch, before stopping engine by means of fuel pump shut-off cab ie. Further, it is recommended to use add itional current (lights) while engine is running. Insulating tape on battery cab ie end leading to starting motor should not be removed.		
If t his advice is disregarded, damage to alternator and regulator may result.		
It the batteries are to be installed in the rrat'tor, remove insulating tape on terminal of battery cable. 'th is is to be done if the tractor was shipped with dry- c harged batteries or without batteries.		
Connect batteries in the proper polarity. If they are i mproper Iy connected ("+" and "-"), the rectif ier diodes will be immediately destroyed.		Section t0, group 10
First connect positive (+) r!able and then ground (-) strap of each battery. Only then start tractor engine.		Section 40, grr>ijp 10

PREDELIVERY INSPECTION — Continued

S ervice	Specification	R eference
TIRES AND WH EELS		
Check tire inflation pressure		Operator's manual
Retighten wheel bolts		Section 80, group 15 and Operator's manual
LUBRICATION		
Check crankcase oil level	Top mark on dip stick	Operator's manual
Check transmission-hydraulic system oil level		Operator's manual
Lubricate all lubrication points on the tractor		Operator's manual
ENGINE		
Check dry type air cleaner		Operator's manual
Fill fuel tank and start engine 1020 and 1120	Fuel tank capacity: 62.5 liters (16.5 U.S.gals., 13. 75 Imp.gals.)	Operator's manual
1630	74 liters (19.5 U.S.gals., 16.3 Imp.gals.)	
Check lighting system, indicator lights and instruments for proper operation		Operator's manual
Check if speed control linkage moves easily		Section 20, group 40
Check engine idle speeds		Section 20, group 40
Check injection timing		Section 30, group 15
OPERATION		
Check clutch pedal adjustment	Approx. 25 mm (1 in.) clutch pedal free travel	Section 50, group 5
Check operation of HIGH-LOW shift unit		Section 50, group 10
Shift transmission through all gears		Operator's manual
Check differential lock operation		Operator's manual
Check PTO operation		Operator's manual
Check 3-point hitch operation		Operator's manual
Check hydraulic system operation		Section 70, group 5
Check brake operation		Section 60, group 15

PREDEL I VERY INSPECTION — Continued

S er v ice	Specifications	Reference
Check steering operation		Section 60, group 10
Check seat adjustment		Operator's manual
Check operation of remote cylinder (if equipped)		Section 70, group 5
GENERAL		
Tighten accessible nuts and attaching screws		Section 10, group 20
Attach roll guard	Tighten nuts and bolts to 13 mkp (94 ft.lbs.)	Section 80, group 20
Clean tractor and touch up paint		

DE LIVERY SERV ICE

A thorough discussion of the operation and service of the tractor at the time of its delivery helps to assure complete customer satisfaction.

Proper delivery should be an important phase of the dealer's program.

It is a well-known fact that many complaints have arisen simply because the owner was not shown how to operate and service his new tractor properly. Therefore, enough time should be devoted, at the customer's convenience, to introducing him to his new tractor and explaining to him how to operate and service it.

Using the tractor operator's manual as a guide, be sure that the owner understands the following points properly.

- 1. Adjusting the seat
- 2. Operation of control levers and instruments
- 3. Starting and shutting off the engine
- 4. The importance of the tractor break-in period
- 5. Use of counterweights and proper tire inflation pressure as well as filling of tires with water and calcium chloride, if required
- 6. All functions of the hydraulic system
- 7. Operating the PTO and belt pulley (If equipped)
- 8. The importance of the safety rules
- 9. The importance of lubrication and periodic service

AFTER-SALES INSPECTION

In the interest of the purchaser and the dealer an after-sales inspection should be carried out by the dealer after the first 100 hours of using a new John Deere tractor.

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.

Through this inspection a needless volume of service work can be eliminated by preventing

minor difficulties from developing into serious problems later on. It also will promote stronger dealer-customer relations and give the customer an opportunity to ask questions that may have arisen during the first few days of use.

Thereby the dealer has the further opportunity of promoting the possible sale of other new equipment.

The following inspection program is recommended:

AFTER-SALES INSPECT ION

S e r v ice	SPe<:ilications	Relerence
C*OOL I NC. SYS'£EM		
Check coolant level	Coolant level should be midway between radiator core and bottom edge of Miller neck	Operator's manual
filean exterior of radiator		
Check h ose connections		
FUEL SYSTEM		
Check sediment howls and elements of fuel filter for water or sediment and clean transfer pump screen		Operator's manual
Check line connections		
ELfifi"£RICAL SY S) EM		
Check gravity of bat Very electrolyte	C ravity should be 1.250 at an electroly te temperature of 27* C (80° F)	
Check electrolyte level of batteries	To bottom of 1'illt•r neck in each cell	OJaerator's manual
Check tension of fan belt	19 mm (3/4 in.) det'lection with a 9 kp (20 lbs.) force	Operator's manual and section 20, group 35
Start engine and check operation ot' lights, indicator lamps and instruments		Operator's manual
LUBR ICATIO N		
Check c rankcase oil level	Top mark on dip stick	Operator's manual
Check transmission oil level		Operator's manual
Check oil level of manual steering gear housing	Add oil up to filler hole	Operator's manual
Check oil level of belt pulley housing	Add oil up to filler h ole	Operator's manual
Lubricate clutch throw-out bearing		Operator's manual
Lubricate 3-point hitch		Operator's manual

AFTER-SALES INSPECTION

Service	Specifications	Refe¥ence
ENGINE		
Check dry-type air cleaner		Operator's manual
Check valve clearance	Intake valve: 0.35 mm (0.014 in.) Exhaust valve: 0.45 mm (0.018 in.)	Section 20, group 10
Check engine speed under load as well as fast and slow idle speed		Section 20, group 40
Check engine performance		Section 10, group 20
GENERAL		
Check clutch pedal adjustment	Approx. 25 mm (1 in.) free travel	Section 50, group 5
Check operation of HIGH-LOW shift unit		Section 50, group 10
Shift transmission through all gears		Operator's manual
Check operation of PTO		Operator's manual
Check differential lock		Operator's manual
Check operation of hydraulic system		Section 70, group 5
Check steering system		Section 60, group 10
Check brakes		Section 60, group 15
Tighten accessible nuts and cap screws		Section 10, group 20
Tighten roll guard attaching screws and nuts	13 mkp (94 ft.lbs.)	Section 80, group 20
Tighten accessible hydraulic llnes		
Visual inspection of tractor	Damaged paint, loose connections, proper posi- tioning of hoses and lines, leaks, operation of all me- chanical parts	

Group J5

Lubricotion and Periodic Service

For brands of oil and lubricants to be used as well as for lubricating and servicing the model 1020, 1120 and 1630 tractors, see operator's manuals.

Group 20

Engine ond Troctor Tune-Up

GENERAL INFORMATION

Before tuning up the engine, determine whether a tune-up will restore operating efficiency. If there is

doubt, the following preliminary tests will help to determine if the engine can be tuned up.

PRELIMINARY ENGINE TESTING

S er v i ce	Specifications	Relerence
Checking air intake system by means of vacuum gauge	356635m (14 to 26 in.) water head; engine running at fast idle speed	"Fundamentals of Service, Engine" manual under "Diagnosis and Testing"
Check radiator for air bubbles or oil film		
Measure blow-by at crankcase vent tube *		
1020and 1120	1.4 j3q3/h (50 cu.ft.Ohr.)	
1630	1. 7 m /h (60 cu.ft. Ohr.)	
Check compression which should be at least (using special tool No. 19. 58-90. 578)	21 kp/cm ² (300 psi)	"Fundamentals of Service, Engine" manual under "Diagnosis and Testing"
Measure engine horsepower at powershaft (using a dynamometer)	Record measured performance and compare with performance measured after carrying out "Engine Tune-up"	

There is no undue wear on piston rings and c y find er liners i/ the measu red ualue is loin er than that quo ted abone. Should a further test be dr.sired, carry out a compression test. If the "blo w- by" reading is more than that quoted a bone, the decline in performance is due to excessive wear and the engine should be overhauled.

^{*} Measu re in ith a sta ndard gas gauge, placing hose over end of cranh case vent tu be. The engine must be tested at 2500 rp m a nd full load, normal ru nning tern peratu re and should be ru n in (at least 1 00 hon rs). Measu re ouer a period o(5 mins tes ond multiply measured ualue by 12 ((or hourly rate). Corn pare u) ith values quoted above.

ENG INE TUNE-UP

S e rvi ce	Specifications	R eference
AIR INTAKE SYSTEM		
Service air cleaner and check system for leaks		Operator's manual and "Fundamentals of Service, Engine" manual
Check crankcase vent tube for foreign particles (restriction)		
Tighten cylinder head cap screws	15 m kp (110 ft.lbs.)	Section 20, group 10
Check and adjust valve clearance	Intake valve: 0.35 mm (0.014 in.) Exhaust valve: 0.45 mm (0.018 in.)	Section 20, group 10
BATTERIES		
Thoroughly clean wires, connections and batteries		
Tighten cable clamp screws		
Liberally coat battery terminals and cable connectors with petroleum jelly		
Check electrolyte level of battery		Operator's manual
Check specific gravity of electrolyte		Operator's manual
ALTERNATOR		
Check fan belt tension	19 mm (3/4 in.) deflection with 9 kp (20 lbs.) force	Section 20, group 35
FUEL SYSTEM		
Check fuel tank and lines for leaks or restriction		
Clean screen of fuel transfer pump		Operator's manual
Check fuel filter element and replace, if necessary		Section 30, group 10
Check injection timing and adjust, if necessary		Section 30, group 15
Bleed fuel system		Section 30, group 15
Check engine speeds and adjust speed control linkage, if necessary		Section 20, group 40

ENG I NE TU NE-UP - Continued

Service	Specifications	Relerence
11 NC1 NE LGBRICATION SYSTFi5J		
Chem k engine oil pressure	3.5to4 kpcm ² (51 Lo60 ps) atS5N0rpm	Section 20, group 00
COO LI NCi SY S'FEM		
Clean and flush cOo ling sy4tem		"flu ndamentais of Service, Engine" manual
Check radiator hoses fr>r clamage iincl left ks		
Clear racliator core of restrictions	,	

CHECKING ENG IN E PE R FO RMANCE



After the c mine has been tuned up as explained previously, determine powei'shaft horscpoz er by means of a d yiaamometer, See "Fundamentals of Service, Engine" in anual.

Compare niea.sured per forinanc e in I I P i i th ou tJ ut measured before carrying out "Fi nginc I.ri m'-u F"

TRACTOR TUNE-UP

After carrying out engine tunc-iip. make the fo he wing adijHstments on the traditor:

Service	Specifications	Relerence
ENGINE CLUTCH		
Adjust cout c h pedal free travel	Appreix. 25 mm (1 in.)	Sectit>n SO, group 5
FRONT' WHO k LS		
Clean and lubricate front wheel bC'aTings		Section 80, group 15
Adjust fro nt wheel bearings		Section 80, group 15
Check toe-in	3 to 6.5 mm (0.123	Section 60, group 5
Check torque of front wheel bolts	to 0.25 in.) 12 mkp (87 ft.lbs.)	
I IYD R A U LI C BRA K ES		
Bleed lirake system		Section 60, group IS

20-4

TRACTOR TUNE-UP - Continued

Service	Specifications	R e.I e r e n c e
HYDRAULIC SYSTEM		
Check stand-by pressure of hydraulic pump	1 5601 6@p/cm ² (2220 to 2280 psi)	Section 70, group 5
Check rockshaft lift cycle time at 2500 rpm engine speed	1. 8 sec. to 2.3 sec.	Section 70, group 5
Check time required for extending or retracting remote cylinder at 2100 rpm engine speed	2 sec.	Section 70, group 5
Check operating pressure of HIGH-LOW shift unit	8.8to9.5kpcm ² (125to135psi)	Section 60, group 10
Check operating pressure of PTO clutch and PTO brake	8. 8 to 9.5 kp /p{yt2 (125 to 135 psi)	Section 50, group 30
TIRES		
Check tire inflation pressure		Operator's manual
TORQUES		
Check all accessible cap screws and nuts of tractor for proper torque		Torque chart

John Deere 1020 1520 1530 2020 2030 Service Manual Then Instant Download the Complete Manual Thank you very much!