



2040 and 2240 Tractor



JOHN DEERE

TECHNICAL MANUAL 2040 and 2240 Tractor

TM1221 (01NOV80) English

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TM1221 (01NOV80)

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Excavator Service Repair Manual

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John Deere 2240 Problems Service Manual Download in the technological know-how of archaeology. The man or woman sorts of excavation are regarded simply as digs to people who participate in, with this being an over literal description of the technique used. An excavation issues itself with a particular archaeological web page or associated collection of web sites, and can be carried on over a amount of years, thinking about that the paintings can normally instances typically be of a seasonal nature. **John Deere 2240 Problems Service Manual Download**

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2040 and 2240 Tractors (Serial No. 350,000L-)

Technical Manual
TM-1221 (Nov-80)

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Section 10

GENERAL

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Group 00

SPECIFICATIONS AND SPECIAL TOOLS

SPECIFICATIONS

Serial Numbers

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

NOTE: When ordering engine parts, quote all digits of serial number stamped on the plate.

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

NOTE: When ordering tractor spare parts (excluding engine parts), quote all digits of serial number stamped on the plate.

A plate showing the tractor type, transmission serial number, (and cone point measurement etched into pinion face of differential drive shaft as well as reduction of differential) is located on the right-hand side of the transmission case.

Model Numbers

The fuel injection pump, fuel injection nozzles, alternator, starting motor, and hydraulic pump have model numbers for positive identification.

Engine

Number of cylinders	3	
Cylinder liner bore.....	106.5 mm (4.19 in.)	
Stroke	110 mm (4.33 in.)	
Displacement	2940 cm ³ (179 cu.in.)	
Compression ratio.....	16.8 : 1	
Maximum torque		
2040 at 1400 rpm.....	152 N•m	112 ft-lbs
2240 at 1400 rpm.....	185 N•m	136 ft-lbs
Firing order	1-2-3	
Valve clearance (engine hot or cold)		
Intake valve	0.35 mm	0.014 in.
Exhaust valve	0.45 mm	0.018 in.

10-00-4 Specifications and Special Tools

General

Fast idle speed.....	2660 rpm
Slow idle speed.....	800 rpm
Rated engine speed.....	2500 rpm
Working speed range.....	1400 to 2500 rpm
PTO* horsepower at engine rated speed — 2500 rpm	
2040.....	30 kW 40 hp
2240.....	37 kW 50 hp
Lubrication system.....	Full internal force-feed system, with full-flow filter

Engine Clutch.....Single dry disk or dual-stage dry disk,
foot-operated

Cooling System

Type..... Pressurized system with centrifugal pump

Temperature regulation.....Thermostat

Fuel System

Type.....Direct injection

Fuel injection pump timing to engine.....TDC

Fuel injection pump type.....Distributor type

Air cleaner.....Dry-type air cleaner with secondary
(safety) element

* With the engine run in (above 100 hours of operation) and having reached operating temperature (engine and transmission); measured by means of a dynamometer. Permissible variation ± 5 percent.

Electrical System

Batteries	1 or 2 x 12 volts, 55 ampere-hours
Alternator with internal regulator	14 volts, 33 or 55 amps
Starting motor	12 volts, 3 KW (4 hp)
Battery terminal grounded.....	negative

Synchronized Transmission

Type	Synchronized transmission
Gear selections.....	8 forward and 4 reverse
Gear shifting.....	Two forward groups and one reverse group. Synchronized forward and reverse shifting within groups.

Collar Shift Transmission

Type	Helical gears
Gear selections.....	8 forward, 4 reverse speeds
Gear shifting.....	Two forward ranges, One reverse range

Hi-Lo Shift Unit

Type	Hydraulic gear reduction unit which can be shifted under load with "wet" multiple disk clutch and brake packs
Travel speed decreases in each gear by.....	Approx. 20 percent
Shifting to reduced (Lo) speed.....	Preloaded cup springs
Shifting to normal (Hi) speed	Hydraulic

Reverser

Type	Hydraulically controlled can be shifted under load, with "wet" disk clutches and brakes, planetary reverser unit
Gear selections.....	1 to 4
Increase in reverse gear speeds.....	Approx. 16 percent

Differential and Final Drives

Type of differential..... Spiral bevel gears

Type of final drive..... Planetary reduction drive

Differential Lock

Operation..... Hand or foot-operated

Disengage..... Will disengage automatically as soon as traction has equalized

PTO Shafts

INDEPENDENT PTO — 540 RPM

Type..... Independent of transmission, can be engaged and disengaged under load

PTO clutch..... Hydraulically operated “wet” disk clutch

PTO brake..... Hydraulically operated “wet” disk brake

CONTINUOUS — RUNNING PTO — 540 RPM

Type..... Independent of transmission, with engine dual-stage clutch

PTO SPEEDS (IN RPM) — WITHOUT REVERSER

Engine speed	540 rpm shaft
800	180
2400	540
2500	565
2660	600

PTO SPEEDS (IN RPM) — WITH REVERSER

Engine speed	540 rpm shaft
800	210
2075	540
2400	625
2500	650
2660	690

Mechanical Front Wheel Drive

Type Engaged hydraulically, under full load with
"wet" disk clutch

Control Electrical/hydraulic solenoid switch

Engagement Preloaded cup springs

Disengagement Hydraulic

Power Steering Hydraulically operated steering linkage

Foot Brakes Self-adjusting, hydraulically operated "wet" disk brakes

Handbrake Mechanically-operated band-type locking brake
acting on the differential

Hydraulic System

Type Closed center, constant pressure system

Standby pressure 15500 kPa 155 bar 2250 psj

Operating pressure 14000 kPa 140 bar 2050 psi

Hydraulic pump 8-piston pump with variable displacement

Capacities

Fuel tank 78 L 20.6 U.S. gal.

Cooling system 70.5 L 2.80 U.S. gal.

Engine crankcase

Without filter change 6.5 L 1.7 U.S. gal.

With filter change 7 L 1.8 U.S. gal.

Capacities — Continued

Transmission — Hydraulic system (including oil reservoir and oil cooler)

Synchronized transmission

Initial filling	63 L	16.65 U.S. gal.
Oil change	55 L	14.5 U.S. gal.

Collar shift transmission (without reverser)

Initial filling	47 L	12.4 U.S. gal.
Oil change	39 L	10.3 U.S. gal.

Collar shift transmission (with reverser)

Initial filling	42 L	11.1 U.S. gal.
Oil change	34 L	9 U.S. gal.

Oil reservoir 4 L 1.1 U.S. gal.

Oil cooler 2 L 0.5 U.S.

Mechanical front wheel drive

Front axle housing..... 5.3 L 1.4 U.S. gal.

Final drive housing, each 0.75 L 0.2 U.S. gal.

Belt pulley 1 L 0.3 U.S. gal.

Travel Speeds see Operator's Manual**Front and Rear Wheels**

Tires, tread widths, tire pressures and ballast weights see Operator's Manual

Dimensions and Weights..... see Operator's Manual

PREDELIVERY, DELIVERY AND AFTER-SALES INSPECTIONS

Engine Speeds

Slow idle.....	800 rpm
Fast idle.....	2660 rpm
Rated speed.....	2500 rpm

Fan Belt

The fan belt should have 19 mm (0.75 in.) flex with 90 N (20 lb) pull midway between crankshaft and alternator or water pump (use a spring scale).

Clutch Pedal

Clutch pedal free travel..... approx. 25 mm (1 in.)

Front Wheel Toe-In

Tractors without MFWD.....	3 to 6 mm	(0.12 to 0.25 in.)
Tractors with MFWD.....	0 to 3 mm	(0 to 0.12 in.)

Torques for Hardware

Start safety switch in rockshaft housing, max.	50 N•m	(35 ft-lbs)
Front wheel rim to hub		
Tractors without MFWD.....	180 N•m	(130 ft-lbs)
Tractors with MFWD.....	300 N•m	(220 ft-lbs)
Axle knees to axle center, cap screws	400 N•m	300 ft-lbs)
Outer tie rod clamp, cap screw	110 N•m	(80 ft-lbs)
Inner tie rod clamp, cap screw	40 N•m	(30 ft-lbs)
Rear wheels		
Tractors with steel wheel disks		
Rear wheels to rear axle	240 N•m	(175 ft-lbs)
Tractors with cast wheel disks		
Rear wheels to rear axle	400 N•m	(300 ft-lbs)
Tractors with rack-and-pinion axle		
Wheel disk to hub.....	400 N•m	(300 ft-lbs)
2-post ROLL-GARD®		
Supports to crossbar, cap screws	230 N•m	(170 ft-lbs)
U-bolt hex. nuts	230 N•m	(170 ft-lbs)

LUBRICATION AND SERVICE

Capacities

Engine crankcase

Without filter change.....	6.5 L (1.70 U.S. gal.)
With filter change.....	7.0 L (1.80 U.S. gal.)

Transmission-Hydraulic system (including oil reservoir and oil cooler)

Synchronized transmission

Initial filling	63.0 L (16.65 U.S. gal.)
Oil change	55.0 L (14.50 U.S. gal.)

Collar shift transmission (without reverser)

Initial filling	47.0 L (12.40 U.S. gal.)
Oil change	39.0 L (10.30 U.S. gal.)

Collar shift transmission (with reverser)

Initial filling	42.0 L (11.10 U.S. gal.)
Oil change	34.0 L (9.00 U.S. gal.)

Mechanical front wheel drive

Front axle housing	5.3 L (1.40 U.S. gal.)
Final drive housing, each.....	0.75 L (0.20 U.S. gal.)

Belt pulley.....	1 L (0.3 U.S. gal.)
------------------	---------------------

Service Intervals

Checking crankcase oil level	every 10 hours
Changing engine oil	every 100 hours
Changing engine oil filter	every 200 hours
Checking transmission/hydraulic system oil level	every 50 hours
Changing transmission/hydraulic system oil filter	every 500 hours
Changing transmission/hydraulic oil	every 1000 hours
Cleaning hydraulic pump strainer	every 1000 hours
Checking MFWD oil level	every 50 hours
MFWD oil change	every 1000 hours
Cleaning and packing front wheel bearings	every 1000 hours
Lubricating grease fittings	
Front axle and front axle bearings	every 10 hours
Rear axle bearings	every 500 hours
in wet and muddy conditions	every 10 hours
Three-point hitch.....	every 200 hours

TUNE-UP

PTO horsepower* at 2500 rpm rated engine speed

2040.....	30 kW	(40 hp)
2240.....	37 kW	(50 hp)

Compression 2100 kPa 21 bar 300 psi

Slow idle 800 rpm

Fast idle 2660 rpm

Rated engine speed 2500 rpm

Air intake system vacuum 3.5 to 6.0 kPa 35 to 60 mbar (14 to 25 in. water head)

Air cleaner restriction warning switch closes at a vacuum of 5.5 to 6.5 kPa 55 to 65 mbar (22 to 26 in. water head)

Blow-by at crankcase vent tube, max.

2040.....	1.9 m ³ /h	(67 cu.ft./h)
2240.....	2.1 m ³ /h	(74 cu.ft./h)

Thermostat opens at 82° C (180° F)

Radiator cap high pressure valve opens at 40 to 50 kPa 0.4 to 0.5 bar (6 to 7 psi)

Radiator cap low pressure valve opens at 0 to 4 kPa 0 to 0.04 bar (0 to 0.6 psi)

Fan belt should have 19 mm (0.75 in.) flex with 90 N (20 lbs) pull midway between crankshaft and alternator or water pump (use a spring scale).

**With the engine run in (more than 100 hours of operation) and having reached operating temperature (engine and transmission); measured by means of a dynamometer. Permissible variation \pm 5%.*



TRACTOR SEPARATION

Torques for Hardware

Front axle carrier to engine		
front attaching cap screws (4 used)	230 N•m	(170 ft-lbs)
rear attaching cap screws (2 used)	180 N•m	(130 ft-lbs)
Hydraulic pump drive shaft, cap screws	50 N•m	(35 ft-lbs)
Jointed shaft flange to front axle		
drive hub (tractors with MFWD), cap screws	35 N•m	(25 ft-lbs)
Drag link to bell crank or steering arm,		
slotted nuts*	75 N•m	(55 ft-lbs)
Clutch housing to engine block, cap screws	230 N•m	(170 ft-lbs)
Clutch housing to transmission case, cap screws	160 N•m	(120 ft-lbs)
Hydraulic lines retainer to		
clutch housing, cap screw	45 N•m	(32 ft-lbs)
Final drive housings to transmission case,		
cap screws	120 N•m	(85 ft-lbs)
Rear wheels		
Tractors with steel wheel disks		
Rear wheels to rear axle	240 N•m	(175 ft-lbs)
Tractors with cast wheel disks		
Rear wheels to rear axle	400 N•m	(300 ft-lbs)
Tractors with rack-and-pinion axle		
Wheel disk to hub	400 N•m	(300 ft-lbs)
2-post ROLL-GARD®		
Supports to crossbar, cap screws	230 N•m	(170 ft-lbs)
U-bolt hex. nuts	230 N•m	(170 ft-lbs)
Drawbar to transmission case, cap screws	120 N•m	(85 ft-lbs)
Basic weight to front axle carrier, cap screws	400 N•m	(300 ft-lbs)

*NOTE: If cotter pin cannot be inserted when tightening to the specified torque, turn nut to next slot and secure with cotter pin.

STANDARD TORQUES

RECOMMENDED TORQUES IN N•m AND FT-LBS FOR UNC AND UNF CAP SCREWS				
Head marking (Identifying strength)	 or 10.9*		 or 12.9**	
Thread—O.D. (in.)	N•m	ft-lbs	N•m	ft-lbs
1/4	15	10	20	15
5/16	30	20	40	30
3/8	50	35	70	50
7/16	80	55	110	80
1/2	120	85	170	120
9/16	180	130	240	175
5/8	230	170	320	240
3/4	400	300	580	425
7/8	600	445	930	685
1	910	670	1400	1030
1-1/8	1240	910	1980	1460
1-1/4	1700	1250	2800	2060

NOTE: A variation of ± 10% is permissible for all torques indicated in this chart.

Torque figures indicated above and in the Specification sections of this manual are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or cap screws unless otherwise specified in this manual.

**Tempered steel high-strength bolts and cap screws*

***Tempered steel extra high-strength bolts and cap screws*

RECOMMENDED TORQUES IN N·m AND FT-LBS FOR METRIC CAP SCREWS						
Head marking (Identifying strength)	8.8*		10.9**		12.9***	
Thread-O.D. (mm)	N·m	ft-lbs	N·m	ft-lbs	N·m	ft-lbs
M5	7	5	9	6.5	10	8.5
M6	10	8.5	15	10	20	15
M8	30	20	40	30	40	30
M10	50	35	80	60	90	70
M12	100	75	140	100	160	120
M14	160	120	210	155	260	190
M16	240	175	350	260	400	300
M20	480	355	650	480	780	575
M24	820	605	1150	850	1350	995
M30	1640	1210	2250	1660	2700	1990
M36	2850	2110	4000	2950	4700	3465

NOTE: A variation of $\pm 10\%$ is permissible for all torques indicated in this chart.

Torque figures indicated above and in the Specification sections of this manual are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or cap screws unless otherwise specified in this manual.

*Regular bolts and cap screws

**Tempered steel high strength bolts and cap screws

***Tempered steel extra high strength bolts and cap screws

RECOMMENDED TORQUES IN N·m and FT-LBS FOR PIPE AND HOSE CONNECTIONS				
Thread size	with O-rings		with cone	
	N·m	ft-lbs	N·m	ft-lbs
3/8-24 UNF	7.5	5.5	8	6
7/16-20 UNF	10	7	12	9
1/2-20 UNF	12	9	15	11
9/16-18 UNF	15	11	25	18
3/4-16 UNF	25	20	45	35
7/8-14 UNF	40	30	60	45
1-1/16-12 UNC	60	45	100	75
1-3/16-12 UNC	70	50	120	90
1-5/16-12 UNC	80	60	140	105
1-5/8-12 UNC	110	80	190	140
1-7/8-12 UNC	150	110	220	160

SPECIAL TOOLS

Tune-up

Part No.	Description	Use
D-14547BA*	Motorite tester	Checking compression
D-14550BA*	Adaptor	Used with above to check engine compression

Tractor Separation

JD 244-1*	Lifting eye, straight	Tractor separation
JD 244-2*	Lifting eye, bent	Tractor separation

*Order above tools from: Service Tools
P.O. Box 314
Owatonna, Minn. 55060

Group 05

PREDELIVERY, DELIVERY AND AFTER-SALES INSPECTIONS

The John Deere Delivery Receipt, when properly filled out and signed by the dealer and customer, verifies that the predelivery and delivery services were satisfactorily performed. When delivering this machine, give the customer his copy of the delivery receipt and the operator's manual. Explain their purpose to him.

An inspection tag (Predelivery Information) is attached to each carefully tested new tractor before it leaves the factory.

According to this inspection tag the dealer will carry out a predelivery inspection including the repair of any possible shipping damage and giving the finishing touches to the tractor.

After the first 50 to 100 operating hours it is very important that the dealer carries out a further inspection. This is to ensure complete customer satisfaction and to make sure that the tractor is in good operating condition.

After completing the factory-recommended dealer checks and services listed on the predelivery inspection tag, send a copy to the factory and file the original with the shop order for the job. This will certify that the tractor has received proper delivery service.

TRACTOR STORAGE

When storing a new tractor, proceed as follows:

SHORT-TERM (UNDER 30 DAYS)

1. Fill full tank. This prevents condensation of moisture in tank.

2. Check engine oil level, transmission-hydraulic oil level, and coolant level. Add oil or coolant if necessary. During cold weather, be sure coolant contains sufficient anti-freeze.

3. Check electrolyte level in batteries. If electrolyte does not cover plates, add distilled water. Make sure batteries are fully charged.

4. Store tractor in a dry, protected place. If necessary to store tractor outside, cover it with a protective material. Protect tires from heat, sunlight, and petroleum products.

LONG TERM (OVER 30 DAYS)

To protect engine, fuel system, transmission and hydraulic system, use AR 41785 Rust Inhibitor. The above part no. includes one can of rust inhibitor, masking tape and protective caps to cover all engine openings.

Protect the engine as follows:

1. Add 300 c.c. (9 oz.) of rust inhibitor to the engine oil.

2. Add 225 c.c. (7.5 oz.) of rust inhibitor to the oil in the transmission/hydraulic system.

3. Drain fuel tank, pour 150 c.c. (5 oz.) of rust inhibitor into the empty tank and add approx. 10 liters (2.6 U.S. gals.) of fuel. Start engine and operate it at fast idle for 15 to 20 minutes to distribute the mixture through the whole fuel system. While the engine is running, operate the complete hydraulic system several times. Shut off engine in time to leave some fuel in the tank. Then allow the engine to cool down for 15 to 20 minutes.

4. Prepare 15 c.c. (0.5 oz.) of rust inhibitor for each cylinder. Remove plug of intake manifold or connecting pipe of starting fluid adapter at the

intake manifold, whichever applies, inject rust inhibitor into the intake manifold. Pull out shut-off knob and crank engine with starter several times.

However, do not allow the engine to start. Otherwise the whole procedure must be repeated.

After the rust inhibitor has been added, the engine may not be started again.

IMPORTANT! Rust inhibitor agents evaporate very easily. For this reason, seal all openings after the inhibitor has been added. Also, always keep the inhibitor container closed.

5. Fill the fuel tank.
6. Remove batteries. Add distilled water, if necessary. Charge the batteries and store in a cool, dry place where they will not freeze.
7. Seal all openings such as the vent tube and exhaust outlet.
8. Slacken fan belt and air conditioning compressor belt (if equipped).
9. Replace or repair damaged parts. Touch up any painted surfaces which are scratched or chipped.
10. Coat exposed metal surfaces, such as axles and piston rods of hydraulic cylinders, with grease or corrosion preventative.
11. Store the tractor in a dry, protected place. If the tractor is stored outside, cover it with a waterproof tarpaulin.
12. Block up the tractor so that tires do not touch the ground. Protect tires from heat and sunlight.

REMOVING TRACTOR FROM STORAGE

1. Remove all protective coverings.
2. Check crankcase and transmission/hydraulic system oil levels.
3. Check coolant level.
4. Check tire inflation pressure.
5. Install batteries and connect cable and ground strap.
6. Adjust fan belt and compressor belt (if equipped) tension.
7. Carry out 500-hour check.
8. Run engine at approx. 1500 rpm for some minutes. Check all systems before placing tractor under load.

PREDELIVERY INSPECTION

Before delivering the tractor to the customer, the following checks and services should be performed by the dealer:

ENGINE

Leaks

1. Check engine and fuel lines for leaks. Repair as necessary.

Checking Crankcase Oil Level

NOTE: Tractor should be on a level surface when oil level is checked. If it is not, check only to make sure the crankcase is not dry. Recheck oil level later, when tractor is on level ground.

Excavator Service Repair Manual

At first, excavation requires the eliminating any topsoil this is found with the aid of using an excavator machine. What is dug up can be reviewed with the aid of using a metallic detector for stray unearths however except the excavation web page has persevered to be untouched for a prolonged duration of time, there's a tiny layer of present day fabric at the floor this is of constrained archaeological interest.

In farm areas, any form of archaeological attributes need to be apparent underneath the floor. With city areas, they'll be thick layers of human deposits and simplest the uppermost may be seen to the bare eye. With both case, the first actual project is drawing a scaled web page plan which could display the rims of the excavation. This approach may be composed the usage of tape measures, or as it is greater not unusualplace those days, an digital general station. A grid is normally set up, to divide the web page.

Excavation is moreover beneficial for digging out homes and ditches. When clearing dust out for roads or sub divisions, excavation is what looks after matters. Even aleven though there are some means, the time period excavation is used each time that the earth or dust is disturbed. Heavy equipment is likewise very not unusualplace with excavation, consisting of excavator machines or backhoes. Excavating crews run the system and dig up soil and rocks for regardless of the cause can be. Excavator machines are the maximum normally used equipment, as they could flow some of dust in a touch little bit of time.

Anytime you're collaborating in excavation, you need to continually use clever practices and be safe. If you intend to get down right into a hollow or trench, you need to continually use a trench box. Even aleven though the hollow won't be that deep, excavation web sites can regularly give way and at that point - matters are very risky and probably even deadly. For digging up uncommon artifacts or installing homes or roads, excavation is a few aspect that has been round for years and years. There can be lots to discover with excavation, as you will want to discover the satisfactory manner to run an excavator machine, shoot grade, and simply a way to nicely dig holes and ditches in order that they might not give way.

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