

## 2040 and 2240 Tractor



## TECHNICAL MANUAL 2040 and 2240 Tractor

TM1221 (01NOV80) English

John Deere Tractor Works TM1221 (01NOV80)

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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	10	96.5 mm (4.19 in.)
Stroke		110 mm (4.33 in.)
Displacement	294	0 cm³ (179 cu.in.)
Compression ratio		16.8 : 1
Maximum torque		
2040 at 1400 rpm2240 at 1400 rpm		112 ft-lbs 136 ft-lbs
Firing order		1-2-3
Valve clearance (engine hot or cold)		
Intake valve Exhaust valve		0.014 in. 0.018 in.

Fast idle speed	2660 rpm
Slow idle speed	800 rpm
Rated engine speed	
Working speed range	1400 to 2500 rpm
PTO* horsepower at engine rated speed — 2500 rpm	I
2040	30 kW 40 hp
2240	•
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	
Туре	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

<sup>\*</sup> 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  $\pm$  5 percent.

General	Specifications and Special Tools 10-00-5
Electrical System	
Batteries	1 or 2 x 12 volts, 55 ampere-hours
Alternator with internal regulator	
Starting motor	12 volts, 3 KW (4 hp)
Battery terminal grounded	negative
Synchronized Transmission	
Туре	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	
Туре	Helical gears
Gear selections	8 forward, 4 reverse speeds
Gear shifting	Two forward ranges, One reverse range
Hi-Lo Shift Unit	
Туре	
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	
Туре	Hydraulically controlled can be shifted under load, with "wet" disk

clutches and brakes, planetary reverser unit

#### 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

TypeIndependent of	transmission, can be engaged and disengaged under load
PTO clutch	ally operated "wet" disk clutch
PTO brake	ally operated "wet" disk brake

#### CONTINUOUS — RUNNING PTO — 540 RPM

Туре	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**

Туре	Engaged hydraulically,		load with lisk clutch
Control	Electrical/hydra	ulic solen	oid switch
Engagement	Pro	eloaded cı	up springs
Disengagement			.Hydraulic
Power Steering	Hydraulically opera	ted steerii	ng linkage
Foot BrakesSelf-adjusting, hydraulically operated "wet" disk brakes		sk brakes	
Handbrake			
Hydraulic System			
Туре	Closed center, consta	ant pressu	re system
Standby pressure	15500 kPa	155 bar	2250 psi
Operating pressure	14000 kPa	140 bar	2050 psi
Hydraulic pump			olacement

#### **Capacities**

Fuel tank	20.6 U.S. gal.
Cooling system	2.80 U.S. gal.
Engine crankcase	
Without filter change 6.5 L	1.7 U.S. gal.
With filter change7 L	1.8 U.S. gal.

#### Capacities — Continued

Transmission — Hydraulic system (including oil reservoir and oil cooler)	
Synchronized transmission	
Initial filling63 L	_ 16.65 U.S. gal.
Oil change55 L	_ 14.5 U.S. gal.
Collar shift transmission (without reverser)	
Initial filling	_ 12.4 U.S. gal.
Oil change	_ 10.3 U.S. gal.
Collar shift transmission (with reverser)	
Initial filling	_ 11.1 U.S. gal.
Oil change34 L	9 U.S. gal.
Oil reservoir	1.1 U.S. gal.
Oil cooler	0.5 U.S.
Mechanical front wheel drive	
Front axle housing	_ 1.4 U.S. gal.
Final drive housing, each	0.2 U.S. gal.
Belt pulley 1 L	_ 0.3 U.S. gal.
Travel Speedssee C	perator's Manual
Front and Rear Wheels	
Tires, tread widths, tire pressures and ballast weightssee O	perator's Manual
Dimensions and Weightssee O	perator's Manual

#### PREDELIVERY, DELIVERY AND AFTER-SALES INSPECTIONS

800 rpm 2660 rpm 2500 rpm
ft and alternator
x. 25 mm (1 in.)
0.12 to 0.25 in.) (0 to 0.12 in.)
(35 ft-lbs)
(130 ft-lbs)
(220 ft-lbs)
300 ft-lbs)
(80 ft-lbs)
(30 ft-lbs)
(175 ft-⊦bs)

Tractors with cast wheel disks

2-post ROLL-GARD®

Tractors with rack-and-pinion axle

(300 ft-lbs)

(300 ft-lbs)

(170 ft-lbs)

(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	62.01/16.65.U.S. gol.)
<del>-</del>	
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	
-	
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	
Changing engine oil filter	_
Checking transmission/hydraulic system oil level	
Changing transmission/hydraulic system oil filter	
Changing transmission/hydraulic oil	
Cleaning hydraulic pump strainer	
Checking MFWD oil level	
	_
MFWD oil change	
Cleaning and packing front wheel bearings	every 1000 nours
Lubricating grease fittings	
Front axle and front axle bearings	
Rear axle bearings	
in wet and muddy conditions	
Three-point hitch	every 200 hours

#### **TUNE-UP**

PTO horsepower* at 2500 rpm rated engine speed		
20402240		(40 hp) (50 hp)
Compression	21 bar	300 psi
Slow idle		800 rpm
Fast idle		2660 rpm
Rated engine speed		2500 rpm
Air intake system vacuum	35 to 60 mbar	(14 to 25 in. water head)
Air cleaner restriction warning switch closes at a vacuum of	55 to 65 mbar	(22 to 26 in. water head)
Blow-by at crankcase vent tube, max.		
2040		(67 cu.ft./h) (74 cu.ft./h)
Thermostat opens at	82° C	(180° F)
Radiator cap high pressure valve opens at40 to 50 kPa	0.4 to 0.5 bar	(6 to 7 psi)
Radiator cap low pressure valve opens at0 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).

<sup>\*</sup>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

<b>Torques</b>	for	Har	dware
----------------	-----	-----	-------

front attaching cap screws (4 used)	Front axle carrier to engine	
rear attaching cap screws (2 used)		•m (170 ft-lbs)
Hydraulic pump drive shaft, cap screws	- •	
Jointed shaft flange to front axle drive hub (tractors with MFWD), cap screws	- '	
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       120 N-m       (85 ft-lbs)         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)         Drawbar to transmission case, cap screws       120 N-m       (85 ft-lbs)	Hydraulic pump drive shaft, cap screws	•m (35 ft-lbs)
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       120 N-m       (85 ft-lbs)         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)         Drawbar to transmission case, cap screws       120 N-m       (85 ft-lbs)		
Drag link to bell crank or steering arm, slotted nuts*		
Slotted nuts	drive hub (tractors with MFWD), cap screws	•m (25 ft-lbs)
Slotted nuts		
Clutch housing to engine block, cap screws 230 Nem (170 ft-lbs)  Clutch housing to transmission case, cap screws 160 Nem (120 ft-lbs)  Hydraulic lines retainer to clutch housing, cap screw 45 Nem (32 ft-lbs)  Final drive housings to transmission case, cap screws 120 Nem (85 ft-lbs)  Rear wheels  Tractors with steel wheel disks  Rear wheels to rear axle 240 Nem (175 ft-lbs)  Tractors with cast wheel disks  Rear wheels to rear axle 400 Nem (300 ft-lbs)  Tractors with rack-and-pinion axle Wheel disk to hub 400 Nem (300 ft-lbs)  2-post ROLL-GARD®  Supports to crossbar, cap screws 230 Nem (170 ft-lbs)  U-bolt hex. nuts 230 Nem (170 ft-lbs)  Drawbar to transmission case, cap screws 120 Nem (85 ft-lbs)		
Clutch housing to transmission case, cap screws	slotted nuts*/5 N	•m (55 tt-lbs)
Clutch housing to transmission case, cap screws	Clutch haveing to agains block and acrows	(170 ft lbo)
Hydraulic lines retainer to clutch housing, cap screw	Clutch housing to engine block, cap screws	•m (170 R-lbs)
Hydraulic lines retainer to clutch housing, cap screw	Clutch housing to transmission case, can screws 160 N	m (120 ft-lhe)
clutch housing, cap screw	Total Housing to transmission case, cap screws,	(120 11 103)
clutch housing, cap screw	Hydraulic lines retainer to	
Final drive housings to transmission case, cap screws		•m (32 ft-lbs)
cap screws		
Rear wheels Tractors with steel wheel disks Rear wheels to rear axle	Final drive housings to transmission case,	
Tractors with steel wheel disks Rear wheels to rear axle	cap screws120 N	•m (85 ft-ibs)
Tractors with steel wheel disks Rear wheels to rear axle		
Rear wheels to rear axle 240 Nem (175 ft-lbs) Tractors with cast wheel disks Rear wheels to rear axle 400 Nem (300 ft-lbs) Tractors with rack-and-pinion axle Wheel disk to hub 400 Nem (300 ft-lbs)  2-post ROLL-GARD® Supports to crossbar, cap screws 230 Nem (170 ft-lbs) U-bolt hex. nuts 230 Nem (170 ft-lbs)  Drawbar to transmission case, cap screws 120 Nem (85 ft-lbs)		
Tractors with cast wheel disks Rear wheels to rear axle		
Rear wheels to rear axle		•m (175 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)		, , , , , , , , , , , , , , , , , , ,
Wheel disk to hub 400 Nem (300 ft-lbs)  2-post ROLL-GARD® Supports to crossbar, cap screws 230 Nem (170 ft-lbs) U-bolt hex. nuts 230 Nem (170 ft-lbs)  Drawbar to transmission case, cap screws 120 Nem (85 ft-lbs)		•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)		(000 ti lli -)
Supports to crossbar, cap screws 230 Nem (170 ft-lbs) U-bolt hex. nuts 230 Nem (170 ft-lbs)  Drawbar to transmission case, cap screws 120 Nem (85 ft-lbs)	vyneet alsk to hub400 N	•m (300 π-lbs)
Supports to crossbar, cap screws 230 Nem (170 ft-lbs) U-bolt hex. nuts 230 Nem (170 ft-lbs)  Drawbar to transmission case, cap screws 120 Nem (85 ft-lbs)	2-poet BOLL-GABD®	
U-bolt hex. nuts		em (170 ft-lhs)
Drawbar to transmission case, cap screws		
	200 19	(170 11 100)
	Drawbar to transmission case, cap screws	•m (85 ft-lbs)
Basic weight to front axle carrier, cap screws	· · · · · · · · · · · · · · · · · · ·	<b>,</b> ==-,
	Basic weight to front axle carrier, cap screws	•m (300 ft-lbs)

<sup>\*</sup>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.	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  $\pm$  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.

<sup>\*</sup>Tempered steel high-strength bolts and cap screws

<sup>\* \*</sup>Tempered steel extra high-strength bolts and cap screws

Head marking (Identifying strength)	8.8' 10.9"		8.8*		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	12Ò	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.

<sup>\*\*\*</sup>Tempered steel extra high strength bolts and cap screws

	with O-rings		with cone	
Thread size	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

<sup>\*</sup>Regular bolts and cap screws

<sup>\*\*</sup>Tempered steel high strength bolts and cap screws

#### **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\* ...... 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.
- 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.

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 ditchs. 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 ditchs in order that they might not give way.

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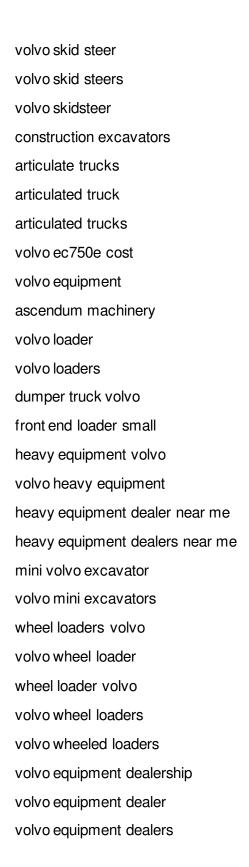
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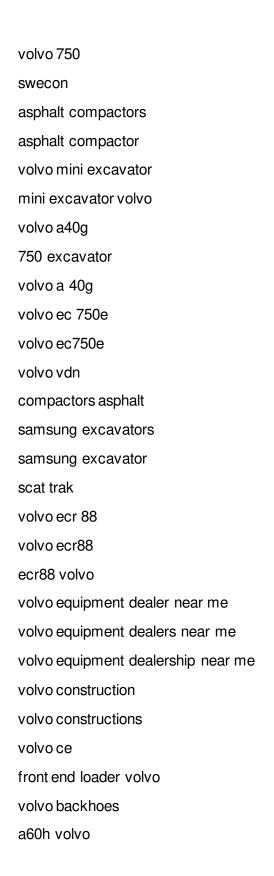
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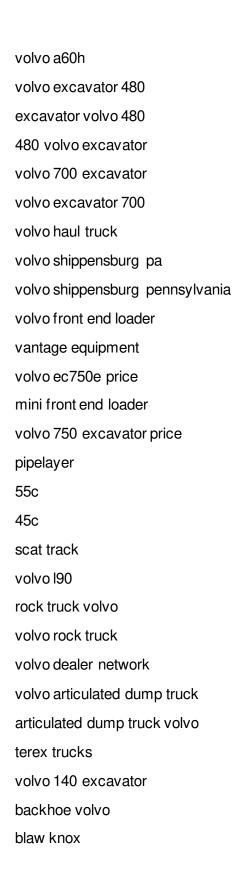
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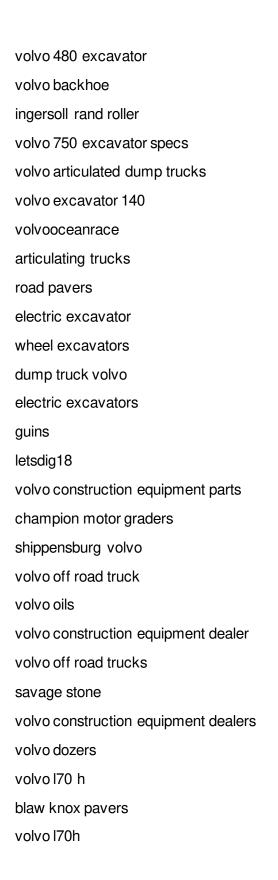
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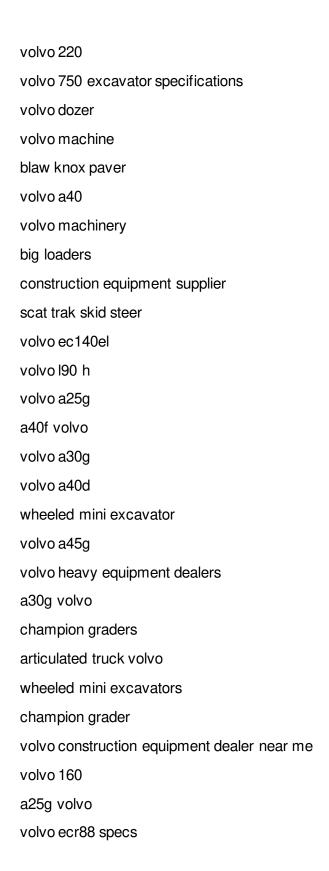


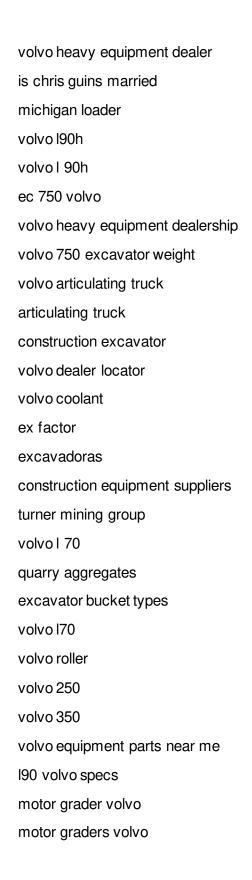


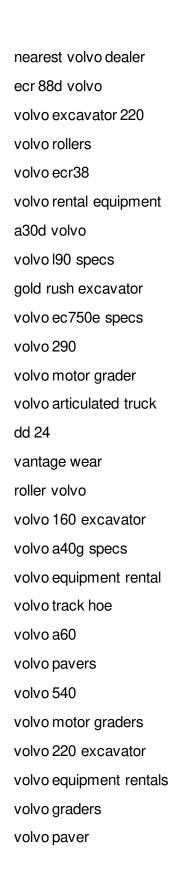












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- 58. <a href="https://www.heavymachineryequipment.com/downloads/john-deere-1166-1169h-1174-1177-1177-service-repair-manual-download/">https://www.heavymachineryequipment.com/downloads/john-deere-1166-1169h-1174-1177-1177-service-repair-manual-download/</a>
- 59. <a href="https://www.heavymachineryequipment.com/jhon-deere-john-deere-2054-2056-2058-2064-2066-service-repair-manual/">https://www.heavymachineryequipment.com/jhon-deere-john-deere-2054-2056-2058-2064-2066-service-repair-manual/</a>
- 60. <a href="https://www.heavymachineryequipment.com/downloads/john-deere-2250-2450-2650-2650n-2850-3050-3350-3650-service-repair-manual/">https://www.heavymachineryequipment.com/downloads/john-deere-2250-2450-2650-2650n-2850-3050-3350-3650-service-repair-manual/</a>
- 61. <a href="https://www.heavymachineryequipment.com/downloads/john-deere-1350-1550-1750-1850-1850n-1950-1950n-service-repair-manual/">https://www.heavymachineryequipment.com/downloads/john-deere-1350-1550-1750-1850-1850n-1950-1950n-service-repair-manual/</a>
- 62. <a href="https://www.heavymachineryequipment.com/downloads/john-deere-322-330-332-430-lawn-garden-tractor-service-manual/">https://www.heavymachineryequipment.com/downloads/john-deere-322-330-332-430-lawn-garden-tractor-service-manual/</a>
- 63. <a href="https://www.heavymachineryequipment.com/downloads/john-deere-2040-2240-service-repair-manual/">https://www.heavymachineryequipment.com/downloads/john-deere-2040-2240-service-repair-manual/</a>

- 64. <a href="https://www.heavymachineryequipment.com/downloads/john-deere-sabre-lawn-tractor-service-repair-manual-download/">https://www.heavymachineryequipment.com/downloads/john-deere-sabre-lawn-tractor-service-repair-manual-download/</a>
- 65. <a href="https://www.heavymachineryequipment.com/downloads/john-deere-38-inch-46-inch-sabre-lawn-tractor-service-repair-manual/">https://www.heavymachineryequipment.com/downloads/john-deere-38-inch-46-inch-sabre-lawn-tractor-service-repair-manual/</a>
- 66. <a href="https://www.heavymachineryequipment.com/downloads/stihl-e140-e160-e180-service-repair-manual/">https://www.heavymachineryequipment.com/downloads/stihl-e140-e160-e180-service-repair-manual/</a>
- 67. <a href="https://www.heavymachineryequipment.com/downloads/john-deere-102-115-125-135-145-155c-190c-lawn-garden-tractor-manual/">https://www.heavymachineryequipment.com/downloads/john-deere-102-115-125-135-145-155c-190c-lawn-garden-tractor-manual/</a>
- 68. <a href="https://www.heavymachineryequipment.com/downloads/john-deere-x495-x595-lawn-garden-tractor-service-repair-manual/">https://www.heavymachineryequipment.com/downloads/john-deere-x495-x595-lawn-garden-tractor-service-repair-manual/</a>
- 69. <a href="https://www.heavymachineryequipment.com/downloads/john-deere-x465-x475-x485-x575-x585-tractor-service-repair-manual/">https://www.heavymachineryequipment.com/downloads/john-deere-x465-x475-x485-x575-x585-tractor-service-repair-manual/</a>
- 70. <a href="https://www.heavymachineryequipment.com/downloads/john-deere-lt150-lt160-lt170-lt180-lawn-tractors-service-repair-manual/">https://www.heavymachineryequipment.com/downloads/john-deere-lt150-lt160-lt170-lt180-lawn-tractors-service-repair-manual/</a>
- 71. <a href="https://www.heavymachineryequipment.com/jhon-deere/john-deere-gx355-lawn-garden-tractor-service-repair-manual/">https://www.heavymachineryequipment.com/jhon-deere/john-deere-gx355-lawn-garden-tractor-service-repair-manual/</a>
- 72. <a href="https://www.heavymachineryeq.uipment.com/jhon-deere/john-deere-gx255-gx325-gx335-gx345-garden-tractors-service-manual/">https://www.heavymachineryeq.uipment.com/jhon-deere/john-deere-gx255-gx325-gx335-gx345-garden-tractors-service-manual/</a>
- 73. <a href="https://www.heavymachineryequipment.com/jhon-deere-john-deere-l1642-l17-542-l2048-l2548-scotts-lawn-tractor-service-repair-manual/">https://www.heavymachineryequipment.com/jhon-deere-john-deere-l1642-l17-542-l2048-l2548-scotts-lawn-tractor-service-repair-manual/</a>
- 74. <a href="https://www.heavymachineryequipment.com/downloads/john-deere-14-542gs-1642hs-17-542hs-sabre-lawn-tractor-service-repair-manual/">https://www.heavymachineryequipment.com/downloads/john-deere-14-542gs-1642hs-17-542hs-sabre-lawn-tractor-service-repair-manual/</a>
- 75. <a href="https://www.heavymachineryequipment.com/downloads/john-deere-sst15-sst16-sst18-spin-steer-lawn-tractor-service-manual/">https://www.heavymachineryequipment.com/downloads/john-deere-sst15-sst16-sst18-spin-steer-lawn-tractor-service-manual/</a>
- 77. <a href="https://www.heavymachineryequipment.com/jhon-deere-john-deere-8320rt-8345rt-8370rt-8rt-rw-tractor-service-repair-manual/">https://www.heavymachineryequipment.com/jhon-deere-john-deere-8320rt-8345rt-8370rt-8rt-rw-tractor-service-repair-manual/</a>
- 78. <a href="https://www.heavymachineryequipment.com/downloads/new-holland-t6030-t6050-t6070-t6080-t6090-tractor-service-repair-manual/">https://www.heavymachineryequipment.com/downloads/new-holland-t6030-t6050-t6070-t6080-t6090-tractor-service-repair-manual/</a>
- 79. <a href="https://www.heavymachineryequipment.com/downloads/john-deere-350b-crawler-tractors-loaders-service-manual/">https://www.heavymachineryequipment.com/downloads/john-deere-350b-crawler-tractors-loaders-service-manual/</a>
- 80. <a href="https://www.heavymachineryequipment.com/downloads/john-deere-lx277aws-lx279-lx288-lawn-tractors-service-manual/">https://www.heavymachineryequipment.com/downloads/john-deere-lx277aws-lx279-lx288-lawn-tractors-service-manual/</a>