

2140 Tractor (From Serial No. 430,000 L)



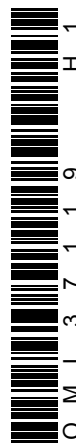
JOHN DEERE

OPERATORS MANUAL 2140 Tractor (From Serial No. 430,000 L)

OML37119 H1 English

John Deere Werke Mannheim
OML37119 H1

LITHO IN U.S.A.
ENGLISH





To the Purchaser

We appreciate the confidence you have shown in John Deere and your John Deere dealer for the purchase of this equipment.

We want you to have the best performance from your new machine. To accomplish this, your dealer will perform a Predelivery Inspection and will familiarize you with the proper and safe operation of this machine.

After the machine has operated the first 100 hours, you should contact your dealer and arrange an appropriate date at which the After-Sale Inspection will be performed. It will be performed most effectively in the workshop of your dealer.

Your dealer completed the predelivery inspection according to the check list, while at the end of this manual you will find the After-Sale Inspection check list.

These check lists will be completed by your dealer while the inspections are being performed. He will then forward the original and one copy of each inspection list to the John Deere Sales Branch Service Department, retaining the second copy for his files. The dealer will confirm completion of these inspections on that portion of the check list which remains in this manual.

The After-Sale Inspection is an important prerequisite to assure best performance of your new machine. For this reason you should not miss **THE OPPORTUNITY** to make proper arrangements with your dealer to get this service done at the proper time.



This safety alert symbol indicates 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.

To assure safe operation of this machine, read the Safety Rules on the first pages of this manual.

IMPORTANT! Your operator's manual contains the international standardized SI metric measurement system.

Right-hand and left-hand sides of this machine are determined by facing in the direction of forward travel.

Record the serial numbers of your machine on page 121 of this manual and provide this information to your dealer when ordering spare parts.

© Deere & Co., European Office, D-6800 Mannheim

All information, illustrations, and specifications contained in this operator's 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.

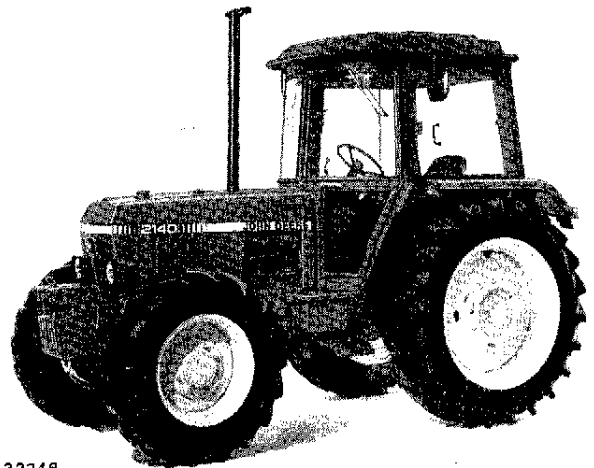


Contents

	Page		Page
Safety rules	2	Tractor storage	112
Controls and instruments	6	Trouble shooting	113
Operation	11	Specifications	116
Fuel and lubricants	72	Serial numbers	121
Lubrication and periodic service	75	Index	123
Service	102		



L16916 A



L32348

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

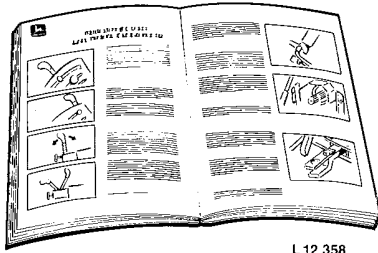
Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>



Safety Rules



L 12 358

Do not put this **operator's manual** away unread. Read the manual carefully, regardless of your previous experience. Allow yourself this time, it will save you time and labour later on.

Always observe local **traffic regulations** when driving the tractor on public roads.

Become familiar with all **controls, indicators, warning lights, and warning plates** before operating the tractor.

Allow only trained operators to **use or adjust** the tractor.



L 16831

Make sure that all **safety guards and shields** supplied with your tractor are serviceable and installed before operating tractor.

Never operate the tractor in a **closed building**. Danger of asphyxiation.

Always maintain **brakes** in excellent condition and adjustment. Brake pedals must be coupled together by means of the pedal coupler when driving on public roads.

Make sure that the tractor can be **safely steered and operated**, especially when driving up a steep hillside or down a slope.

Do not operate the tractor without a **roll guard**.



L 16838

A protective **four-post roll-guard** is incorporated in each operator's cab. On this construction, as well as on tractor equipped with a roll-guard only, do not, under any circumstances, modify structural members of roll-guard by welding on additional parts, drilling holes, grinding etc. Disregarding this instruction can affect the rigidity of the roll-guard and therefore the operator's safety cannot be guaranteed.

The operator should be sure to have sufficient **visibility**.

To make sure that the tractor can be safely steered with rear-mounted implements, install **front weights**.

Drive slowly over rough ground or on hillsides and reduce speed when turning.

Always keep tractor in gear when driving down steep hills or inclines.

When driving out of a ditch, gully, or up a steep slope, engage the clutch slowly. Be prepared to declutch promptly if the front wheels rise off the ground. Use the same care if rear wheels mire in soft ground or drop into a hole. Back the tractor out of these spots if at all possible.

The power demands of attached or drawn implements should be well within the tractor's power range.

Trailers attached to the tractor should be equipped with a safely operating brake and lighting system.

Install additional red tail lights on rear-mounted implements covering the tractor tail lights or if the implement protrudes laterally.

Do not leave equipment raised when tractor is stopped. Always lower it to the ground.

Before starting engine make sure rockshaft control lever is in "equipment lowered" position.

After having disengaged the PTO, driven equipment does not become stationary immediately. Do not attempt to make adjustments or repairs while tractor is running unless specifically recommended. Disengage PTO, place transmission in park or apply handbrake, and shut off tractor engine before working on equipment.

Do not wear loose clothing near moving parts.

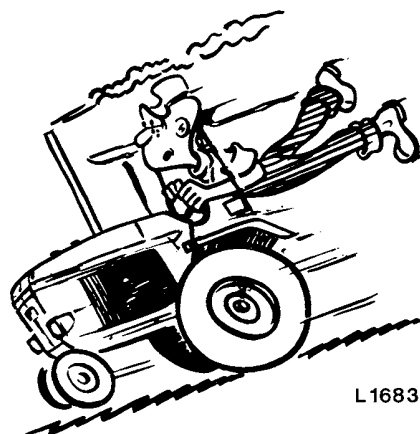
If a PTO-driven implement is attached, make sure powershaft shields are installed.

Chock rear wheel when parking on a slope.

Add coolant only with engine stopped or idling. Turn radiator cap slowly to relieve pressure before removing.

CAUTION! Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin, causing serious injury. Before disconnecting lines, be sure to relieve pressure. Before applying pressure, be sure connections are tight and lines, pipes and hoses are not damaged. Use a piece of cardboard or wood, rather than hands, to search for leaks.

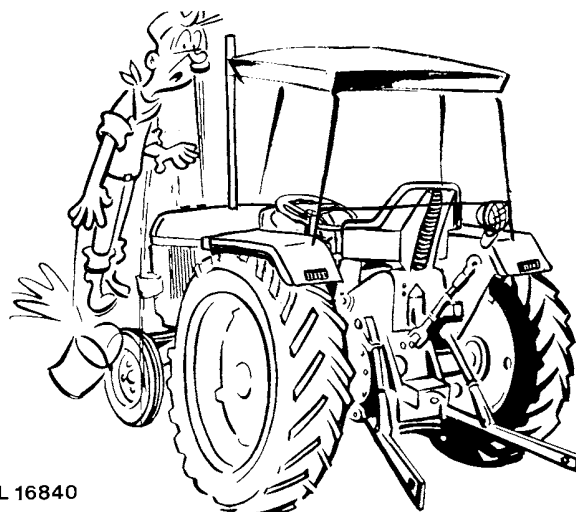
If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.



L 16833

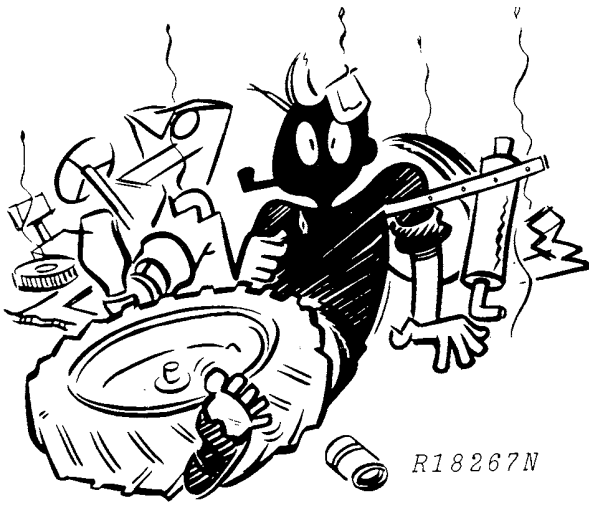


L 16832



L 16840

4 Safety Rules



CAUTION! To avoid injury from escaping hydraulic oil under pressure, relieve the pressure in the system by shutting off tractor and moving remote cylinder operating levers in both directions before attaching hoses to or detaching hoses from the breakaway couplers.

Use caution in handling any type of tractor fuel. Never refuel the tractor when the engine is hot or running. Do not smoke while filling the fuel tank or servicing the fuel system.

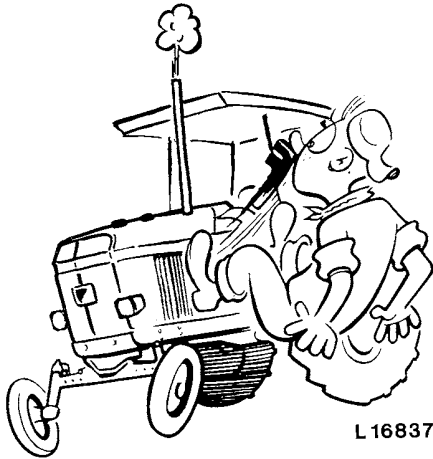
Do not refuel, grease or adjust the tractor while engine is running.

Always disconnect battery ground straps before adjusting engine or electrical system.

Do not allow passengers on the moving tractor unless a second seat is provided.

Provide a first-aid kit for use in case of accident.

It is a good practice to mount a fire extinguisher on the tractor. Be sure that the extinguisher is easily accessible and be familiar with its proper use.



CAUTION! Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious bodily injury or death. DO NOT attempt to mount a tire unless you have the proper equipment and experience to perform the job safely. Have it done by your John Deere dealer or a qualified tire repair service.

When sealing tire beads on rims, never exceed maximum inflation pressures specified by tire manufacturers for mounting tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended pressure is reached, deflate, reposition tire, relubricate bead, and reinflate.

Detailed agricultural tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information is also available from your local tire manufacturer agents.

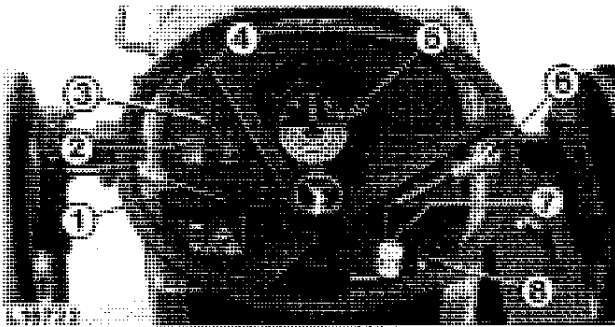




Controls and Instruments

Tractors without SG2 Cab

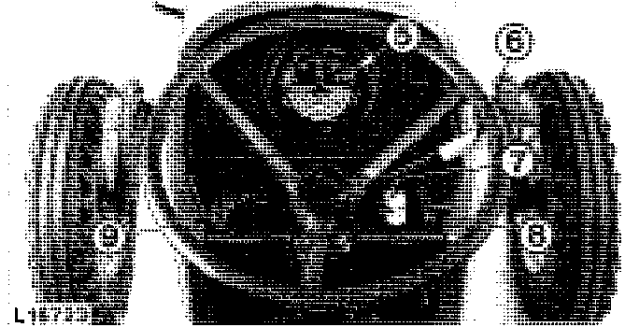
"Bilux" Lighting System



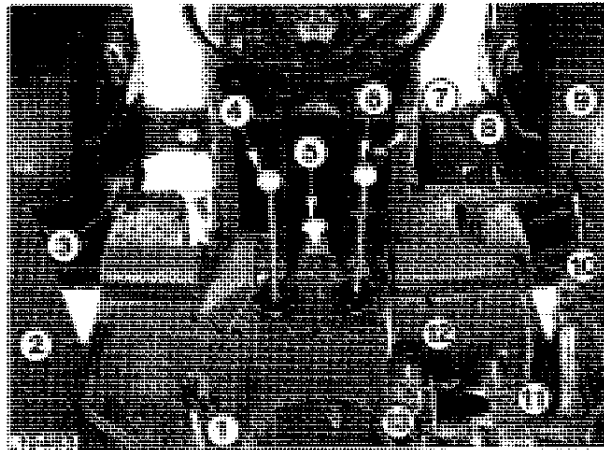
- 1 Hi-Lo or creeper transmission shift lever (optional eqpt.)
- 2 Full beam headlight switch
- 3 Hazard warning light switch

- 4 Turn signal and horn switch
- 5 Instrument cluster
- 6 Hand throttle

"Sealed-Beam" Lighting System



- 7 Engine shut-off knob
- 8 Starter switch
- 9 Light switch



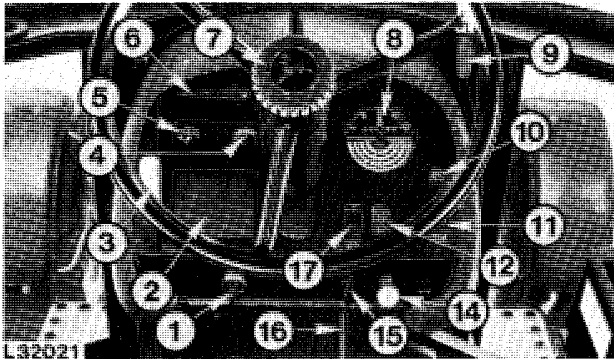
- 1 Differential lock (lever and pedal)
- 2 Handbrake lever
- 3 Clutch pedal
- 4 Range shift lever

- 5 PTO control lever
- 6 Gear shift lever
- 7 Main switch
- 8 Brake pedals

- 9 Rockshaft control lever
- 10 Selective control valve lever
- 11 Rockshaft selector lever
- 12 Foot throttle
- 13 Rate-of-drop lever

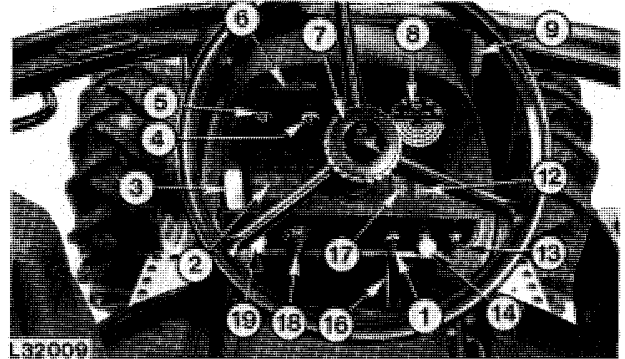
Tractors with SG2 Cab

"Bilux" Lighting System



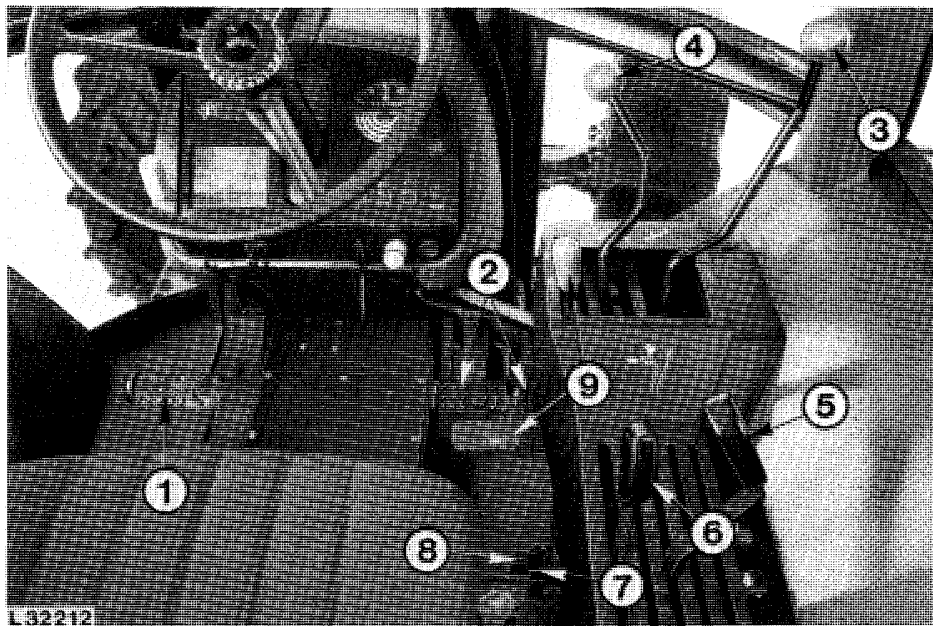
- 1 Main switch
- 2 Control light panel
- 3 PTO control lever
- 4 Coolant temperature gauge
- 5 Fuel gauge
- 6 Turn signal switch
- 7 Steering wheel telescope release

"Sealed Beam" Lighting System

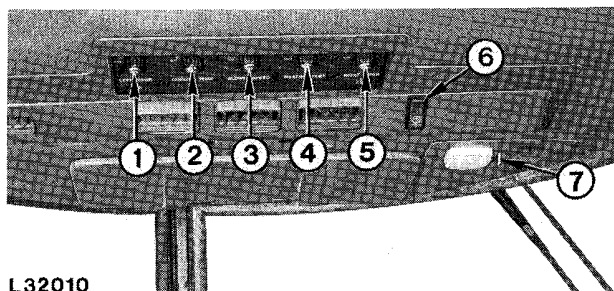


- 8 Speed-hour meter
- 9 Handbrake
- 10 Hazard warning light switch
- 11 Horn button
- 12 Full beam headlight switch
- 13 Cigarette lighter

- 14 Engine shut-off knob
- 15 Starter switch
- 16 Steering column tilt release lever
- 17 Worklight switch
- 18 Light switch
- 19 Cold weather starting aid button



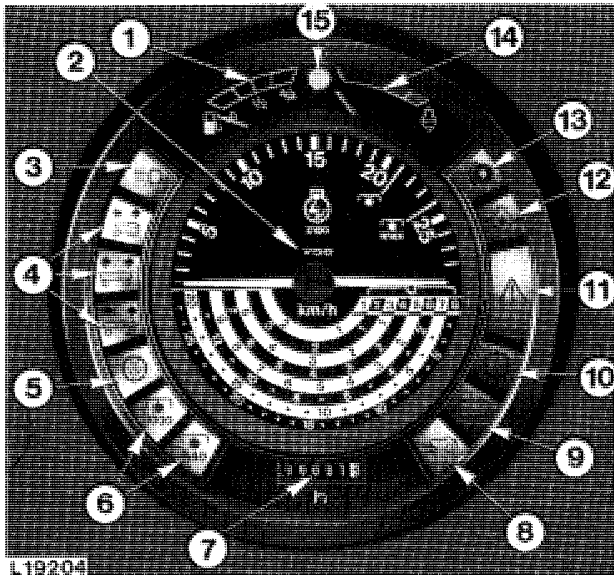
- 1 Clutch pedal
- 2 Brake pedals
- 3 Range shift lever
- 4 Gear shift lever
- 5 Selective control valve lever
- 6 Rockshaft control lever
- 7 Rockshaft selector lever
- 8 Differential lock
- 9 Hand and foot throttle



L32010

- 1 Windshield wiper switch, left hand
- 2 Air conditioning system switch (special equipment)
- 3 Fan switch
- 4 Heater switch
- 5 Windshield wiper switch, right-hand
- 6 Windshield washer switch
- 7 Cab light switch

Instrument Cluster Tractors without SG2 Cab



Air cleaner, alternator, engine oil pressure and transmission oil pressure* indicator lights should light up as soon as the main switch key is turned on. If this is not the case, a burnt-out bulb or blown fuse may be the cause. Replace defective bulb or blown fuse.

The control lights should go out as soon as the engine is running.

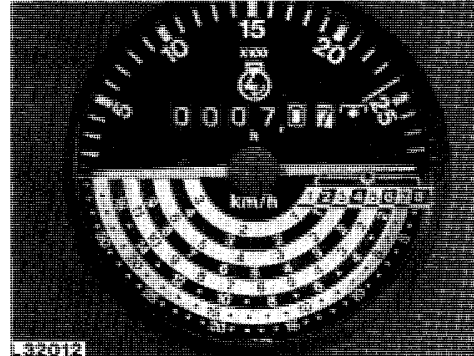
* On tractors with collar shift transmission: Transmission indicator light glows only when a malfunction occurs.

- 1 The fuel gauge shows amount of fuel in tank, from "full" (4/4) to "empty" (0). Never run fuel tank completely dry, otherwise you will have to bleed the fuel system.
- 2 The engine and tractor speed meter shows the engine speed and tractor speed in the gear engaged.
- 3 The full-beam indicator light will go on as soon as the full-beam headlight switch is turned on.
- 4 The flashing indicator lights for tractor and trailer start flashing when turn-signal or hazard warning lights are turned on.
- 5 If air cleaner indicator light goes on with engine running, the air cleaner element must be cleaned or replaced.
- 6 The PTO speed indicator lights (on machines with PTO hand speed-change only) show the PTO speed engaged.
- 7 The hour meter shows the number of engine operation hours in full and tenths of hours. The hour meter facilitates close observation of the proper service intervals.
- 8 The front wheel drive indicator light glows when front wheel drive is engaged.
- 9 If alternator indicator light goes on with engine running, check for loose alternator connections, condition and tension of V-belt or defective alternator. If necessary have alternator checked by your John Deere dealer.
- 10 If transmission oil pressure indicator light goes on during tractor operation, stop tractor and check transmission/hydraulic oil level. Should indicator light glow and oil level is correct, then oil filter is clogged. Replace filter.
- 11 The warning light blinks when indicator light 9, 10 or 12 glows or when range shift lever is moved with handbrake applied.
- 12 If engine oil pressure indicator goes on with engine running, shut-off engine and check oil level.
- 13 The handbrake indicator light glows when handbrake is applied and main switch is turned on. Furthermore, an acoustical warning signal can be installed.
- 14 Should the coolant gauge needle move into the red zone the engine is overheating. Immediately reduce load or shift to a lower gear. Should the needle remain in the red zone, shut-off engine and determine cause of overheating.
- 15 This indicator light glows when fog tail light is switched on.

Instruments Tractors with SG2 Cab

Speed Meter

The engine and tractor speed meter shows the engine speed and tractor speed in the gear engaged.



Hour Meter

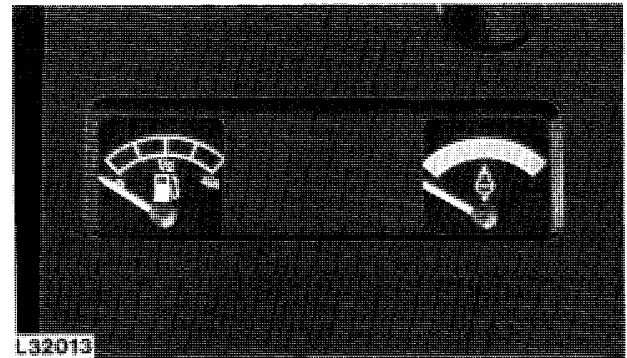
The hour meter shows the number of engine operating hours in full and tenths of hours. The hour meter facilitates close observation of the proper service intervals.

Fuel Gauge

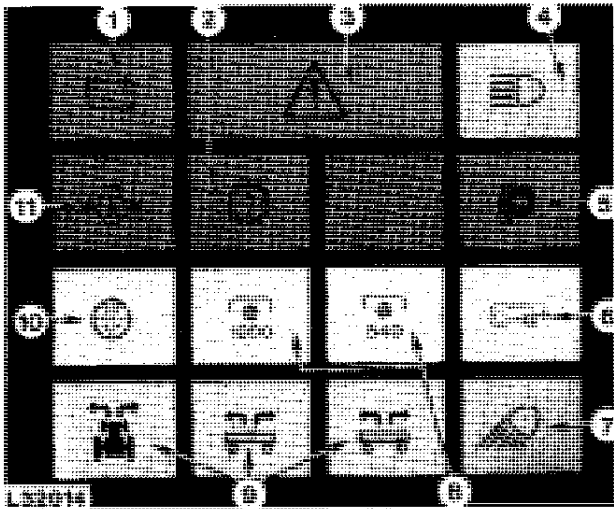
The fuel gauge shows amount of fuel in tank, from "full" (4/4) to "empty" (0). Never run fuel tank completely dry, otherwise you will have to bleed the fuel system.

Coolant Temperature Gauge

Should the coolant gauge needle move into the red zone the engine is overheating. Immediately reduce load or shift to a lower gear. Should the needle remain in the red zone, shut-off engine and determine cause of overheating.



10 Controls and Instruments



Control Light Panel

Air cleaner, alternator, engine oil pressure and transmission oil pressure indicator lights should light up as soon as the main switch key is turned on. If this is not the case, a burnt-out bulb or blown fuse may be the cause. Replace defective bulb or blown fuse.

The control lights should go out as soon as the engine is running.

- 1 – If alternator indicator light goes on with engine running, check for loose alternator connections, condition and tension of V-belt or defective alternator. If necessary have alternator checked by your John Deere dealer.
- 2 – If transmission oil pressure indicator light goes on during tractor operation, stop tractor and check transmission/hydraulic oil level. Should indicator light glow and oil level is correct, then oil filter is clogged. Replace filter.
- 3 – The warning light blinks when indicator light 1, 2 or 11 glows or when range shift lever is moved with handbrake applied.
- 4 – The full-beam indicator light will go on as soon as the full-beam headlight switch is turned on.
- 5 – The handbrake indicator light glows when handbrake is applied and main switch is turned on. Furthermore, an acoustical warning signal can be installed.
- 6 – The front wheel drive indicator light glows when front wheel drive is engaged.
- 7 – This indicator light glows when worklight is switched on.
- 8 – The PTO speed indicator lights (on machines with PTO hand speed-change only) show the PTO speed engaged.
- 9 – The flashing indicator lights for tractor and trailer start flashing when turn-signal or hazard warning lights are turned on.
- 10 – If air cleaner indicator light goes on with engine running, the air cleaner element must be cleaned or replaced.
- 11 – If engine oil pressure indicator goes on with engine running, shut-off engine and check oil level.



Operation

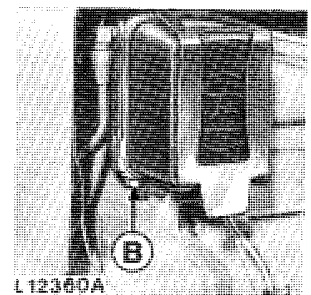
IMPORTANT! If the engine is to be run for a short time without battery (using a slave battery for starting), do not, under any circumstances, interrupt the circuit by switching off the main switch before stopping the engine by means of the fuel injection pump shut-off cable. Do not raise engine speed above 1000 rpm. Furthermore, use additional current (lights) while engine is running. Insulate battery end of disconnected starter cable properly to avoid damage to both alternator and regulator.

The following items must be checked daily before commencing work:

Oil level in engine crankcase

If oil level has sunk to bottom mark on dipstick, add sufficient oil to bring oil level up to top mark on dipstick.

A – Dipstick



Fuel filter

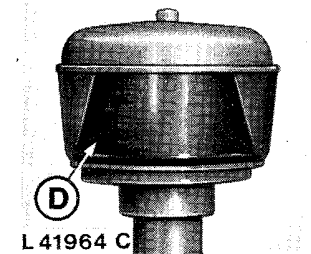
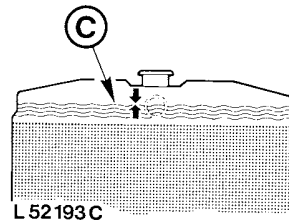
Drain all water and sediment deposits from filter.

B – Drain plug

Radiator coolant level

Coolant should be maintained at a level midway between radiator core and filler neck.

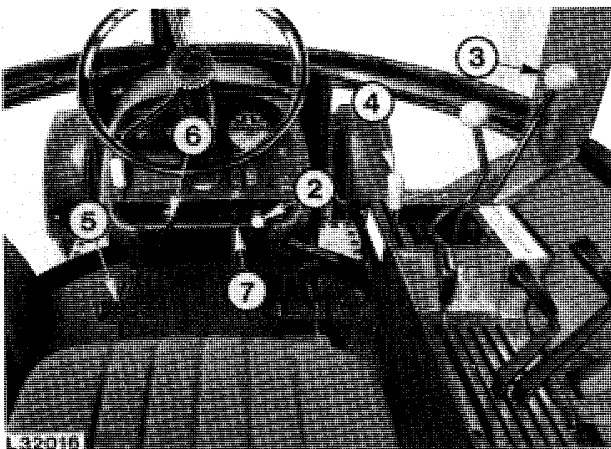
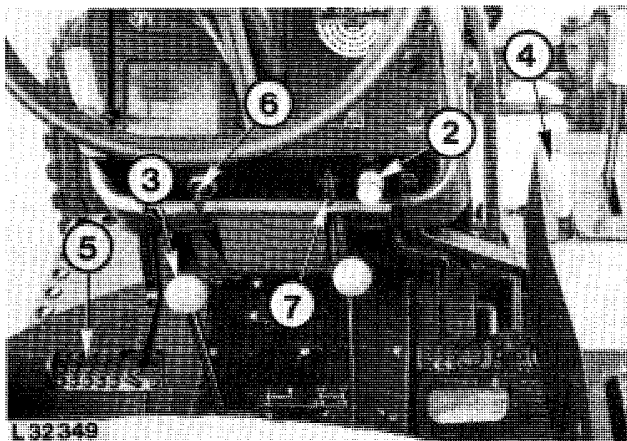
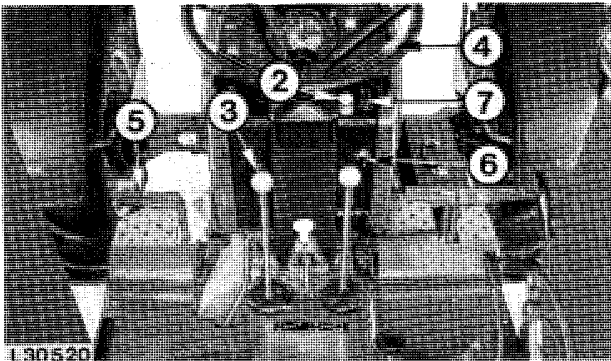
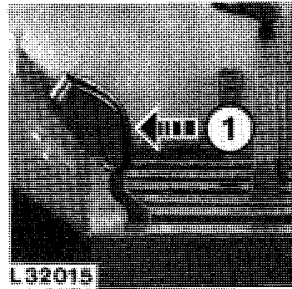
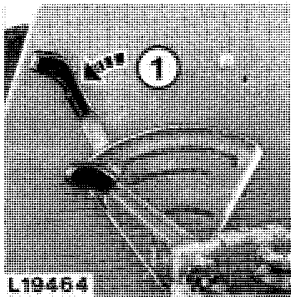
C – Coolant level



Pre-cleaner (when equipped)

Clean collector bowl if dust has risen to mark.

D – Pre-cleaner



STARTING THE ENGINE

⚠ CAUTION! Before starting the engine, make sure there is plenty of ventilation. Never operate the engine in a closed building.

1 – Rockshaft control lever in “equipment lowered” position and selective control valve lever in “neutral”.

2 – Push engine shut-off knob all the way in.

3 – Place range shift lever in neutral position.

4 – Open hand throttle lever approximately 1/3 of travel.

5 – Depress clutch pedal.

On tractors without starter switch

6 – Turn main switch key clockwise to end (operating starting motor) position. Keep switch engaged until engine starts. As soon as engine starts release main switch key.

On tractors with starter switch

6 – Turn main switch key to position “1”.

7 – Turn starter switch clockwise. As soon as engine starts, release starter switch to its original (OFF) position.

If engine does not start within 20 seconds, turn starter switch to “OFF” position and turn main switch key to position “0”. Wait at least one minute before trying again.

8 – Run engine for one to two minutes, with temperature below zero for two to four minutes, with hand throttle applied as described under point 4.

COLD WEATHER STARTING AIDS

Tractors with Thermostart Aid

When starting in cold weather with cold engine, proceed as described under "Starting the Engine" (items 1 to 5). Then turn starter switch anti-clockwise to first (Thermostart) position for 10 to 15 seconds. Turn switch further to end (operating starting motor) position. As soon as engine starts, turn starter switch back to first position and hold in this position until engine runs smoothly. Then release switch to its "OFF" position.

If engine does not start within 20 seconds, turn starter switch to "OFF" position and turn main switch key to position "0". Wait at least one minute before trying again.

Run engine for one to two minutes, with temperature below zero for two to four minutes at medium speed.

Tractors with Ether Starting Aid

When starting the engine at temperature below 0°C (+32°F), starting fluid can be injected into the intake manifold. Starting fluid spray cans are available from your John Deere dealer.

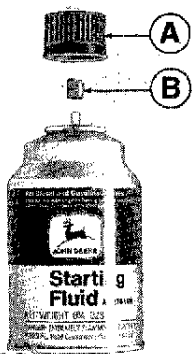


CAUTION! Starting fluid is highly flammable.

IMPORTANT! To avoid damage, turn engine with starter one or two revolutions before injecting starting fluid.

Inject starting fluid only while engine is turning. Inject starting fluid intermittently, not continuously.

14 Operation



L12366 B



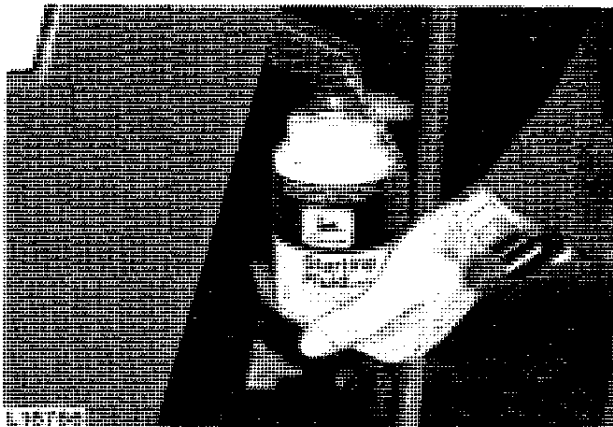
L16765

Injecting Starting Fluid (Manually Operated)

- A – Remove safety cap and
- B – Spray button
- C – Remove cap from adapter

Position can onto adapter and inject fluid by pushing up on can for a short period.

Relax pressure on the can between "shots" of fluid. Stop injecting fluid as soon as the engine starts.

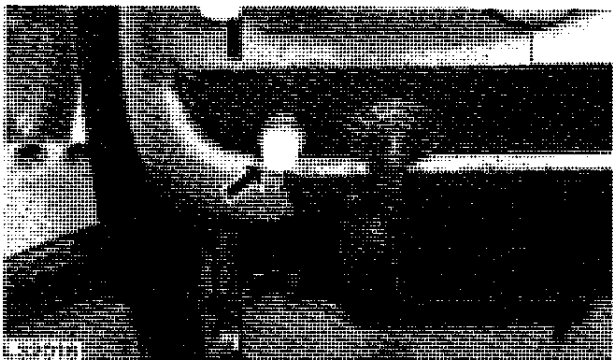


L16765

Run engine at medium speed for two to four minutes. If engine begins to die during the first few minutes of operation, inject another "shot" of fluid. When the engine is running smoothly, remove can from adapter and replace safety cap on can. Be sure to put cap back on adapter when not in use. This prevents dust from being drawn into the engine.

Store starting fluid cans where they will not be subject to extreme cold or heat.

CAUTION! Before discarding used starting fluid containers, empty them completely in a well ventilated area, at a good distance from sparks or open fire.



L16765

Injecting Starting Fluid (Electrically Operated)

Turn main switch key to start position and depress starting aid button. Stop injecting fluid as soon as engine starts.

Run engine at medium speed for two to four minutes. If engine begins to die during the first few minutes of operation, inject another "shot" of fluid.

To install a new can, remove safety cap and plastic spray button from the can. Loosen thumb wheel enough to change cans, then tighten securely.

IMPORTANT! Prevent dust and dirt from being drawn into the engine. Make sure fluid can is always attached to adapter.

Store starting fluid cans where they will not be subject to extreme cold or heat.



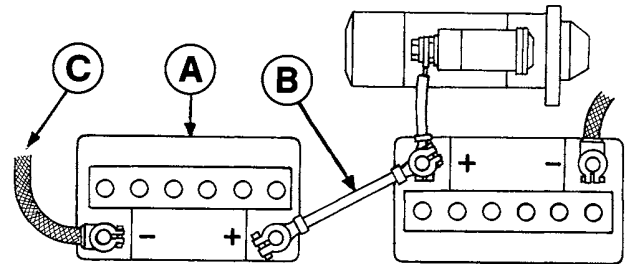
L16765

Starting with an auxiliary battery

Starting the engine can be made easier by connecting an additional 12-volt battery in parallel with the 12-volt batteries on the tractor.

Use jumper cables to connect the positive (+) terminal of the booster battery to the positive (+) terminal of a tractor battery and the negative (-) terminal of the booster battery to negative (-) terminal of the tractor battery. See your JOHN DEERE dealer for booster batteries.

IMPORTANT! The batteries on your tractor are NEGATIVE grounded only. Reversed polarity in battery or alternator connections will result in damage to electrical system.



L 64703 B

- A - Auxiliary battery
- B - Connect both positive battery terminals
- C - Connect negative terminal to ground

TOWING THE TRACTOR TO START

Should the tractor be started by towing or pushing, then use 6th, 7th or 8th gear only. Do not tow the tractor at a speed greater than 15 km/h (10 mph).

ENGINE WARM-UP PERIOD

The engine must have attained the correct operating temperature before putting the unit under full load. To warm up the engine, run it for a few minutes with the hand throttle halfway open. Thus excessive wear on piston rings, cylinders and bearings is avoided.

STALLING THE ENGINE

Should you stall the engine, restart it immediately to ensure lubrication of turbocharger.

TOWING THE TRACTOR

When towing the tractor, move both the gear and range shift levers to the neutral position.



CAUTION! Never tow the tractor at a speed greater than 15 km/h (10 mph).



Suggest:

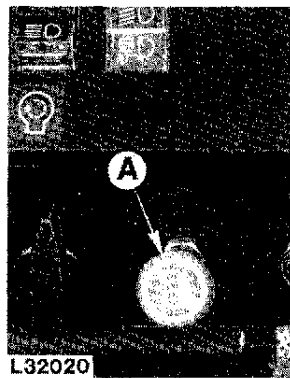
If the above button click is invalid.

Please download this document

first, and then click the above link

to download the complete manual.

Thank you so much for reading



STOPPING THE ENGINE

Stop tractor and engage parking lock or apply handbrake firmly.

Run engine for one to two minutes in slow idle.

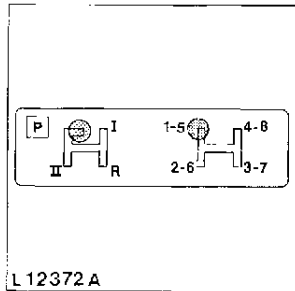
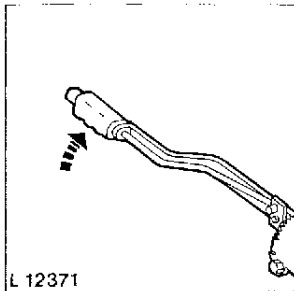
A – Pull shut-off knob.

Push the knob back in after the engine has stopped. Turn main switch to "Off" position.

Before leaving the tractor lower any equipment to the ground and make sure all switches are in "Off" position.

CAUTION! Remove switch key to prevent accidents and battery discharge.

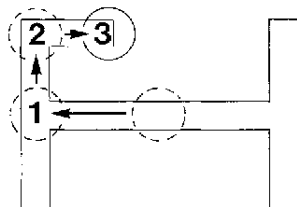
IMPORTANT! When engine is not running make sure exhaust stack flap is closed. This will prevent water and dirt from entering the engine.



PARKING THE TRACTOR

If the tractor has a handbrake, it should be well applied when the tractor is parked or when operating stationary.

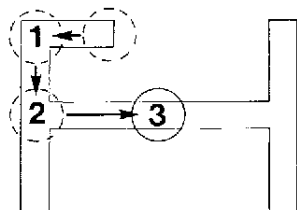
If the tractor is provided with a parking lock, first engage 1st gear and then move range shift lever in park (P) position as follows:



L 14659

1. Move range shift lever to the left
2. Move range shift lever forward
3. Move range shift lever to the right

To disengage parking lock:



L 14657

When disengaging the parking lock, apply foot brakes and move range shift lever out of park (P) position as follows:

1. Move range shift lever to the left
2. Move range shift lever to the rear
3. Move range shift lever to the right

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>