

# 2140 Tractor (From Serial No. 450,000 L)



JOHN DEERE

## OPERATORS MANUAL 2140 Tractor (From Serial No. 450,000 L)

OML40936 J5 English

John Deere Werke Mannheim  
OML40936 J5

LITHO IN U.S.A.  
ENGLISH





## INSPECTIONS

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.

## SAFETY



**CAUTION:** 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.

**IMPORTANT:** This machine is designed and manufactured according to JOHN DEERE specifications. To avoid accidents and to assure optimum performance the machine must not be modified or altered in ways not approved by JOHN DEERE, nor must it be used in conditions or for purposes it is not designed for.

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

## MEASUREMENTS

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

## DIRECTION

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

## SERIAL NUMBERS

Record the serial numbers of your machine in the spaces provided at the end of this manual and provide this information to your dealer when ordering spare parts.

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D-6800 Mannheim

All information, illustrations and specifications contained in this operators 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.

# Identification Views



L16916 A

L16916A-2140ALE-250583



L 32348

L32348-2140ALE-250583

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# Safety (General)

## AVOID TRACTOR RUNAWAY

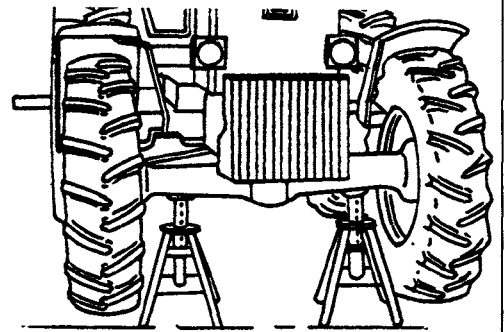
Do not start engine by shorting across starting motor terminals. With gear engaged machine will immediately start to move.

Never attempt to start or operate tractor except from operator's station. When starting the tractor make sure transmission is in neutral or "park" position.

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## SERVICE FRONT-WHEEL DRIVE TRACTOR SAFELY

When servicing front-wheel drive tractor with rear wheels supported off ground and rotating wheels by engine power, always support front wheels in a similar manner. Loss of electrical power or transmission-hydraulic system pressure will engage front driving wheels, pulling rear wheels off support if front wheels are not raised. Under these conditions, the front-drive wheels can engage even with switch in disengaged position.



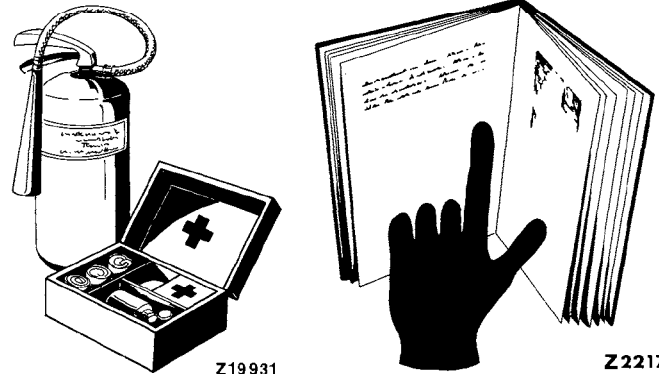
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## BE INFORMED

1. 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.

2. Be prepared in case of accident or fire. Keep first aid kit and fire extinguisher handy. Be acquainted with correct handling of the fire extinguisher.



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## WEAR SUITABLE CLOTHING

Clothing worn by operator must be fairly tight and belted. Loose jackets, shirts or ties must never be worn.



Z20912

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### HANDLE FUEL SAFELY – AVOID FIRES

Handle fuel with care, it is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop engine before refueling the machine. Fill fuel tank outdoors.

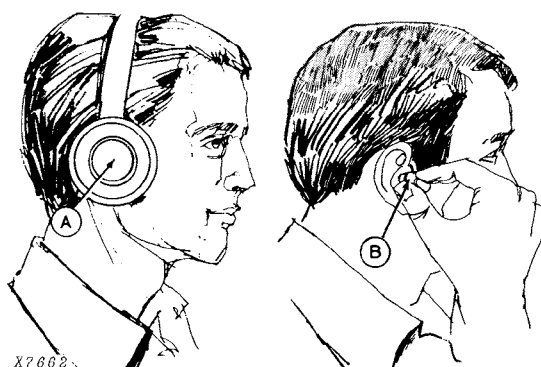
Prevent fires by keeping machine clean off accumulated trash, grease and debris. Always clean up spilled fuel

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### NOISE PROTECTION

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as ear-muffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noises.



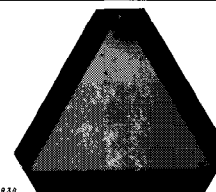
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### SAFETY ON PUBLIC ROADS



**CAUTION:** Always comply with local traffic regulations when driving on public roads.

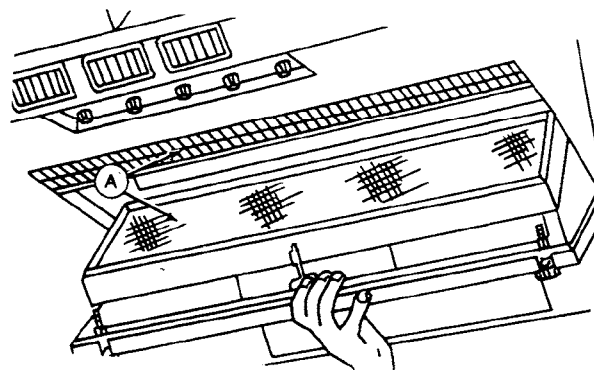


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### HANDLE CHEMICALS PROPERLY

The operator's cab body air filters (A) are not designed to filter out harmful chemicals. Follow instructions given in the implement operator's manual and those given by the chemical manufacturer when using agricultural chemicals.



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**CAUTION:** Steering and braking performance of the tractor can be considerably affected by attached implements. To maintain the necessary tractor ground contact, ballast tractor as necessary.

**Braking performance:** On tractors equipped with a front loader or heavy equipment attached to front hitch, ballast rear end of tractor (rear wheel weights, filling rear tires with liquid ballast or attaching a rear mounted implement).

When driving the tractor with front implement installed and without rear implement, never drive tractor faster than 20 km/h (12.5 mph).

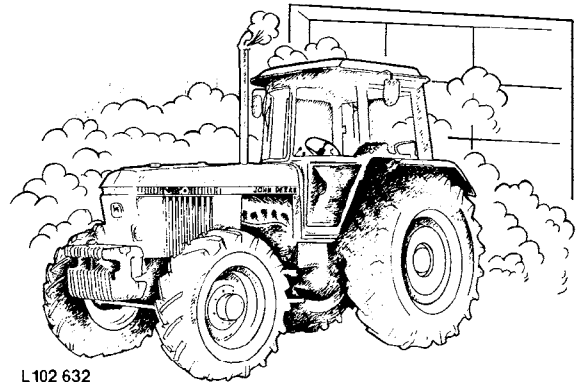
**Steering performance:** On tractors equipped with heavy rear-mounted implement, install sufficient front ballast (front weights).

# Safety (Operation)

## OPERATING THE ENGINE

Never operate the engine in a closed building. Danger of asphyxiation!

When starting the engine rockshaft control lever must be in "lower" position.



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## DRIVING THE TRACTOR

Reduce ground speed when driving the tractor on slopes or uneven ground and before making sharp turns. Before descending a steep hill, shift to a lower gear. Never coast downhill!

Avoid holes ditches and obstructions which may cause the tractor to tip, particularly on hillsides.

Front-wheel drive (A) greatly increases traction. This means that the tractor can be driven on steeper slopes, increasing the possibility of a tip over.

Never drive near the edge of a gully or steep embankment, it might cave in!

Driving forward out of a ditch or up a steep slope could cause tractor to tip over to the rear. Therefore reverse out of these situations whenever possible (B).



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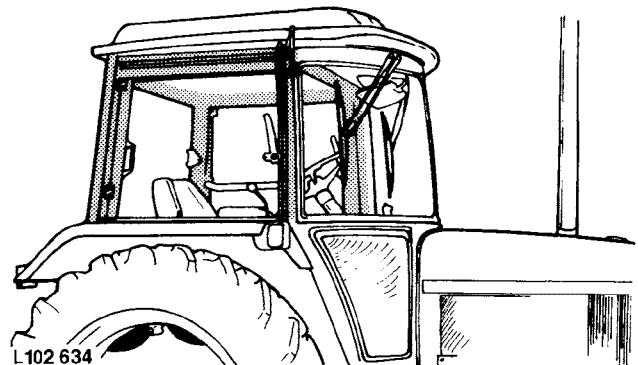


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## ROLL GUARD

A protective roll guard is incorporated in the operator's cab. On this construction, as well as on the roll guard on tractors without an operator's cab, do not, under any circumstances, modify structural members by welding on additional parts, drilling holes, grinding etc. Disregarding this instruction reduces stability of the roll guard.



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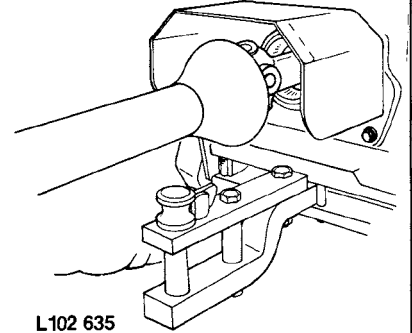
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# Safety (Operation)

## PTO DRIVE

High-inertia implements do not become stationary immediately when PTO control lever is shifted to disengaged position. Allow sufficient time for implement to “coast down” to a halt after having disengaged the PTO.

Make sure PTO drive shaft guards are installed.

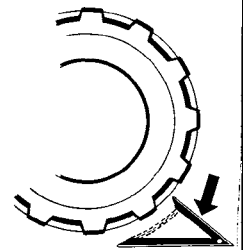
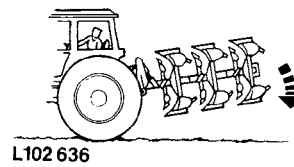


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## PARKING THE TRACTOR

Before leaving the tractor lower any equipment to the ground.

When parking on a slope, place chock behind a rear wheel.



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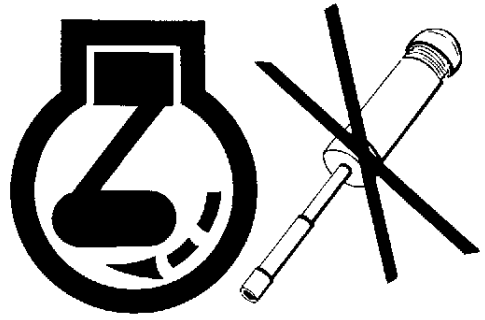
# Safety (Service)

## SERVICE – GENERAL

Do not service the tractor while the engine is running.

Reinstall all shields and guards removed for servicing and make sure they are in a servicable condition.

Have adjustments carried out by trained personnel only.



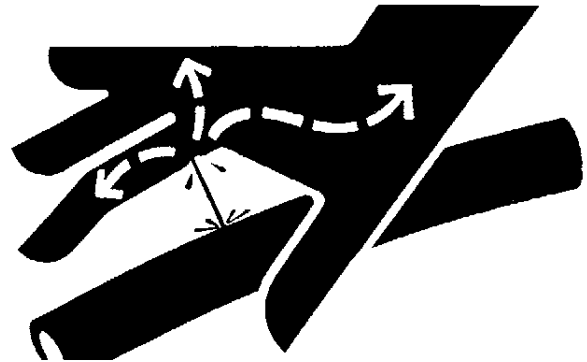
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## AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure (fuel or hydraulic oil) can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pin holes and nozzles which eject fluids under high pressure. Use a piece of cardboard or wood to search for leaks. Do not use your hand.

If any fluid is injected into the skin, consult a doctor immediately, otherwise this may result in a serious infection.



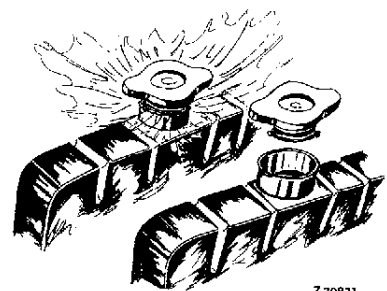
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## SERVICE COOLING SYSTEM SAFELY

Remove radiator cap carefully when engine is hot. With engine shut off, turn radiator cap to first stop to relieve pressure before removing it completely.

Top up radiator with coolant with engine stationary.



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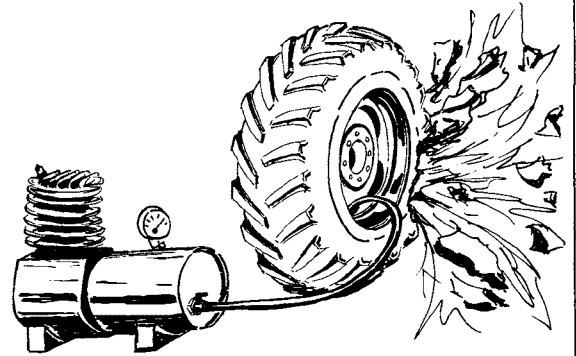
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### SERVICE TIRES SAFELY

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, re-position 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.

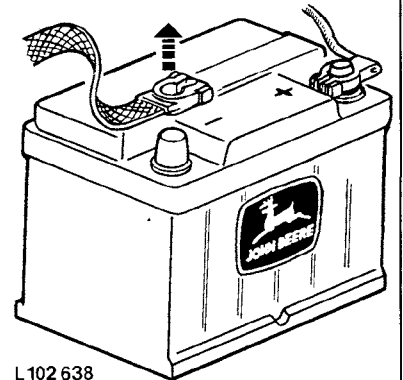


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### DISCONNECTING ELECTRICAL CIRCUIT

Disconnect battery ground strap before carrying out any electrical repairs on the tractor. See also under important notes for "Alternator" in the section "Service – Electrical System".

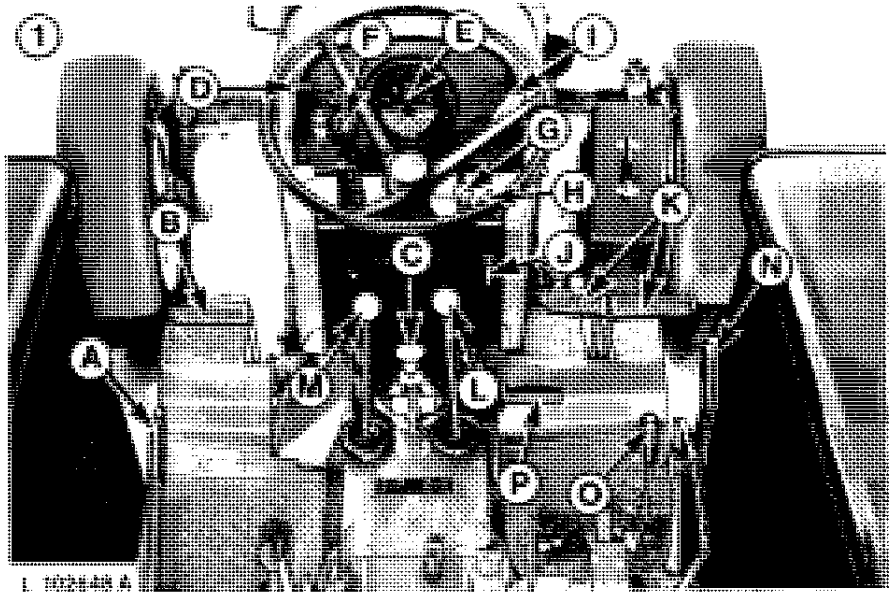


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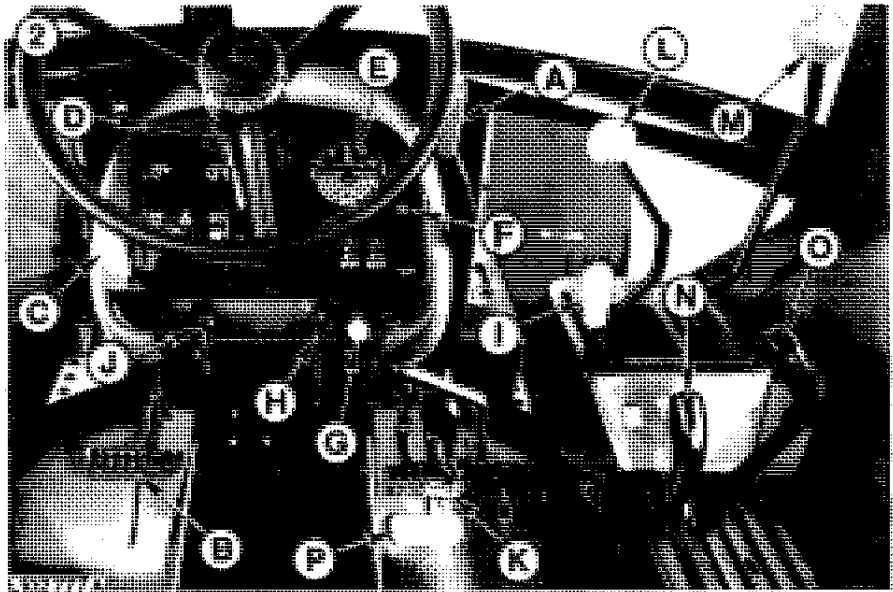
# Controls and Instruments

1-Without SG2 Cab



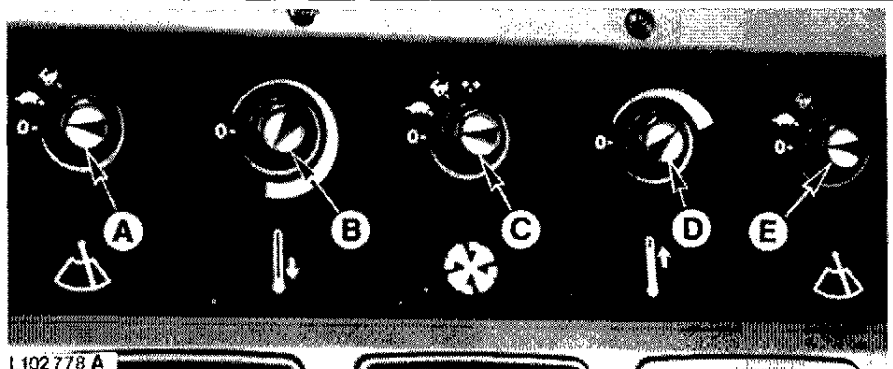
- A-Handbrake
- B-Clutch pedal
- C-PTO shift lever
- D-Turn signal switch
- E-Speed-hour meter
- F-Hazard warning light switch
- G-Engine shut-off knob
- H-Starter switch
- I-Hand throttle lever
- J-Main switch
- K-Brake pedals
- L-Gear shift lever
- M-Range shift lever
- N-Rockshaft control lever
- O-Selective control valve lever
- P-Foot throttle

2-With SG2 Cab



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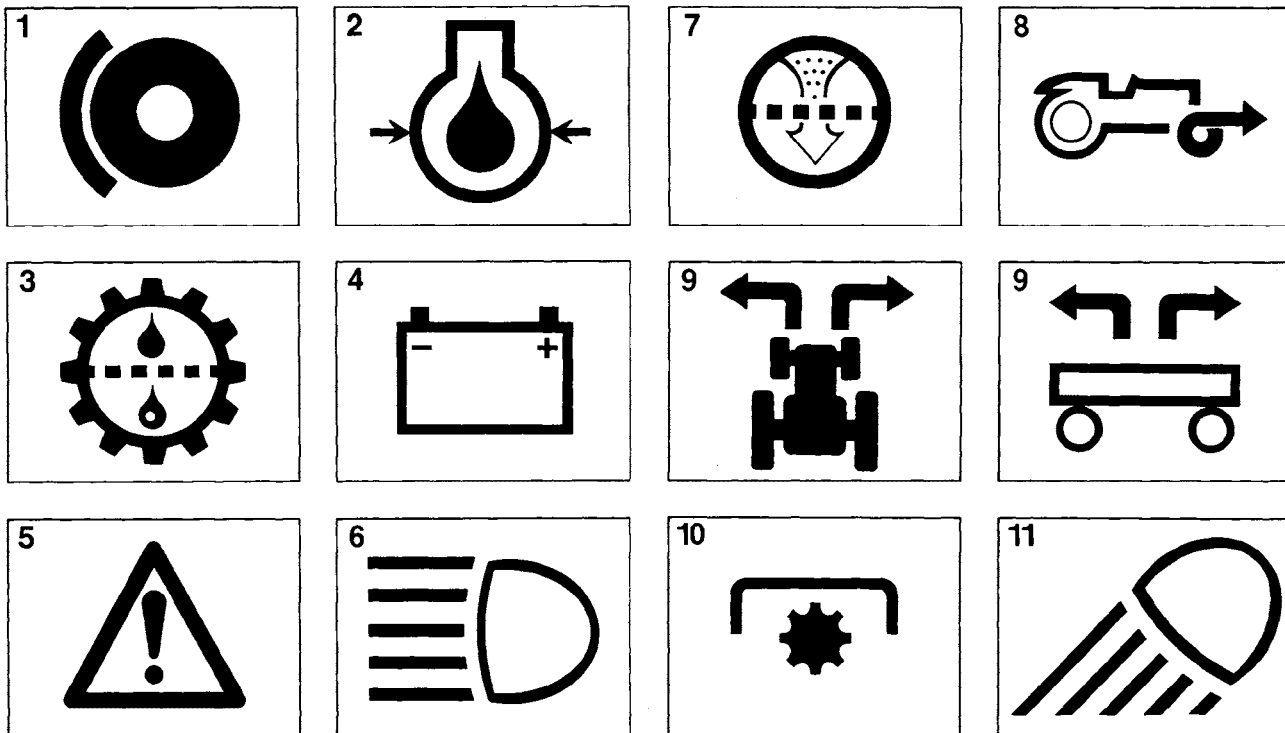
- A-Windshield wiper switch, left-hand
- B-Air conditioning switch
- C-Fan switch
- D-Heater switch
- E-Windshield wiper switch, right-hand



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CONTROL LIGHTS



L102 779

1 – The handbrake indicator light glows when handbrake is applied and main switch is turned on. In addition, an acoustical warning signal can be installed.

2 – If engine oil pressure indicator light glows with engine running, shut-off engine and check oil level.

3 – If transmission oil pressure indicator light glows 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.

4 – If alternator indicator light glows with engine running, this indicates a defect at alternator. Check alternator cable connections and tension of V-belt. If necessary, have alternator checked by your JOHN DEERE dealer.

5 – The warning light blinks when indicator lights 2, 3 or 4 glow or when the range shift lever is moved with the handbrake applied.

6 – The full-beam indicator light will glow as soon as the full-beam headlights are switched on.

7 – If air cleaner indicator light glows with engine running, the air cleaner element must be cleaned or replaced.

8 – The front wheel drive indicator light glows when the front wheel drive is engaged.

9 – The flashing indicator lights for tractor and trailer start flashing when turn-signal or hazard warning lights are switched on.

10 – The PTO speed indicator lights show speed of PTO engaged (hand shift PTO only).

11 – On tractors with operator's cab there can be one or two indicator lights with this symbol. They glow when work lights are switched on or with additional H3 headlights switched on (tractors with front hitch only).

*NOTE: Indicator lights 2, 3, 4 and 7 should glow as soon as the main switch is turned on. If this is not the case, a defective bulb or blown fuse may be the cause. Check and replace parts as necessary. On tractors equipped with collar-shift transmission, indicator light 3 glows only when a malfunction occurs.*

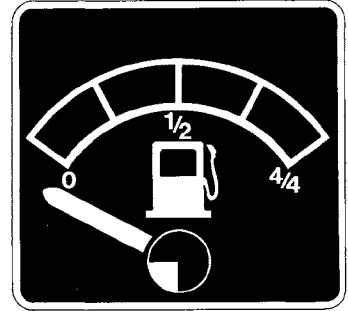
The indicator lights should go out as soon as the engine is running.

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### FUEL GAUGE

The fuel gauge shows the amount of fuel in tank, from "full" (4/4) to "empty" (0).

*NOTE: Never run fuel tank completely dry, otherwise you will have to bleed the fuel system.*

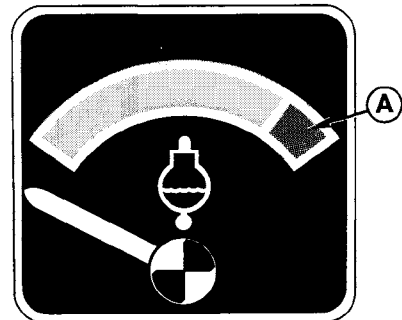


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### COOLANT TEMPERATURE GAUGE

Should the coolant gauge needle move into the red zone (A) 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 (coolant level low or dirty radiator) .



L102 647

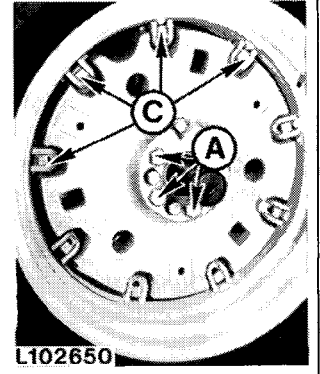
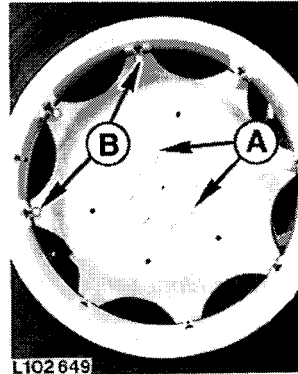
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# Break-In Period

## AFTER FIRST 4 AND 8 HOURS OF OPERATION

**Tighten Rear Wheel Retaining Bolts.**  
(bolt torques vary depending on tractor equipment)

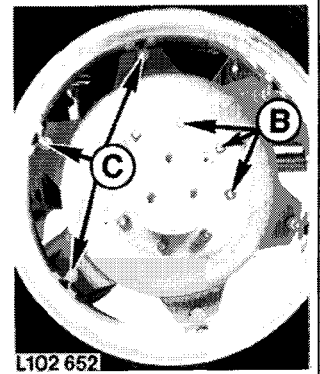
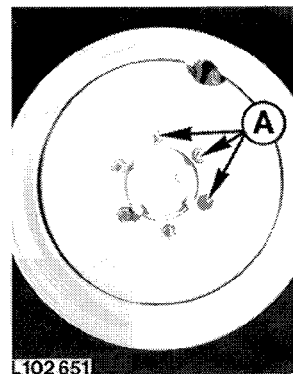
- A—400 Nm (300 ft-lb)
- B—250 Nm (185 ft-lb)
- C—230 Nm (170 ft-lb)



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**Tighten Front Wheel Retaining Bolts.**  
(bolt torques vary depending on tractor equipment)

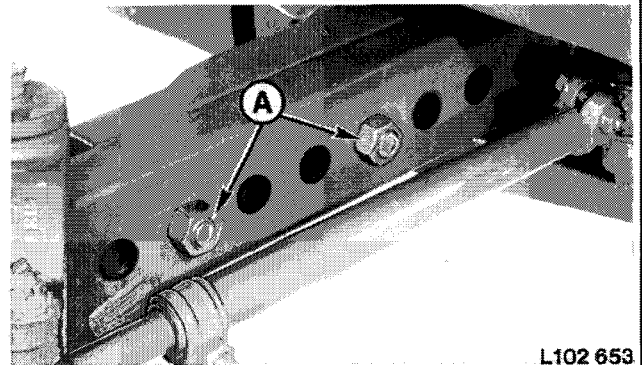
- A—180 Nm (130 ft-lb)
- B—300 Nm (220 ft-lb)
- C—250 Nm (185 ft-lb)



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## Adjustable Front Axle

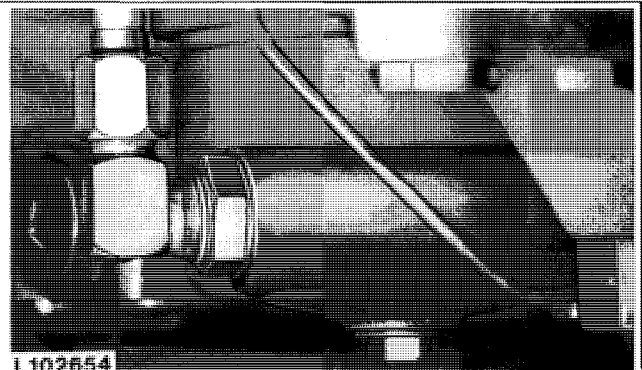
Tighten attaching screws (A) with 400 Nm (300 ft-lb) torque.



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## AFTER FIRST 50 HOURS OF OPERATION

Replace transmission oil filter (see "Service – Transmission/ Hydraulic System").



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## Break-In Period

### WITHIN FIRST 100 HOURS OF OPERATION

- Operate engine at normal loads.
- Avoid light loads.
- Avoid excessive engine idling.
- Check torque of wheel retaining bolts frequently.
- Check engine crankcase oil level frequently.

*NOTE: During the break-in period a higher-than-usual oil consumption should be considered as normal.*

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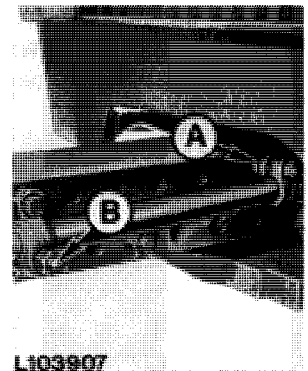
### AFTER FIRST 100 HOURS OF OPERATION

- Tighten clamping screws (A) with 55 Nm (40 ft-lb) and clamping screw (B) with 90 Nm (65 ft-lb).

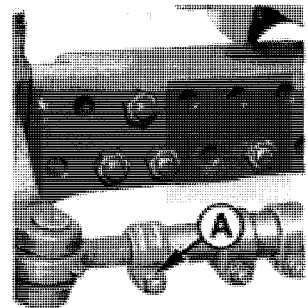
- Change engine oil.  
See "Service – Engine".

- Renew engine oil filter element.  
See "Service – Engine".

- Change front axle oil.  
See "Service – Axles and Wheels".



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L103908

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