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Farmall 75U
Farmall 85U
Farmall 95U
Farmall 105U
Farmall 115U
Tractors

OPERATOR'S MANUAL

Part number 84339669
2nd edition English
June 2010
Replaces part number 87481904

CASE IH AGRICULTURE

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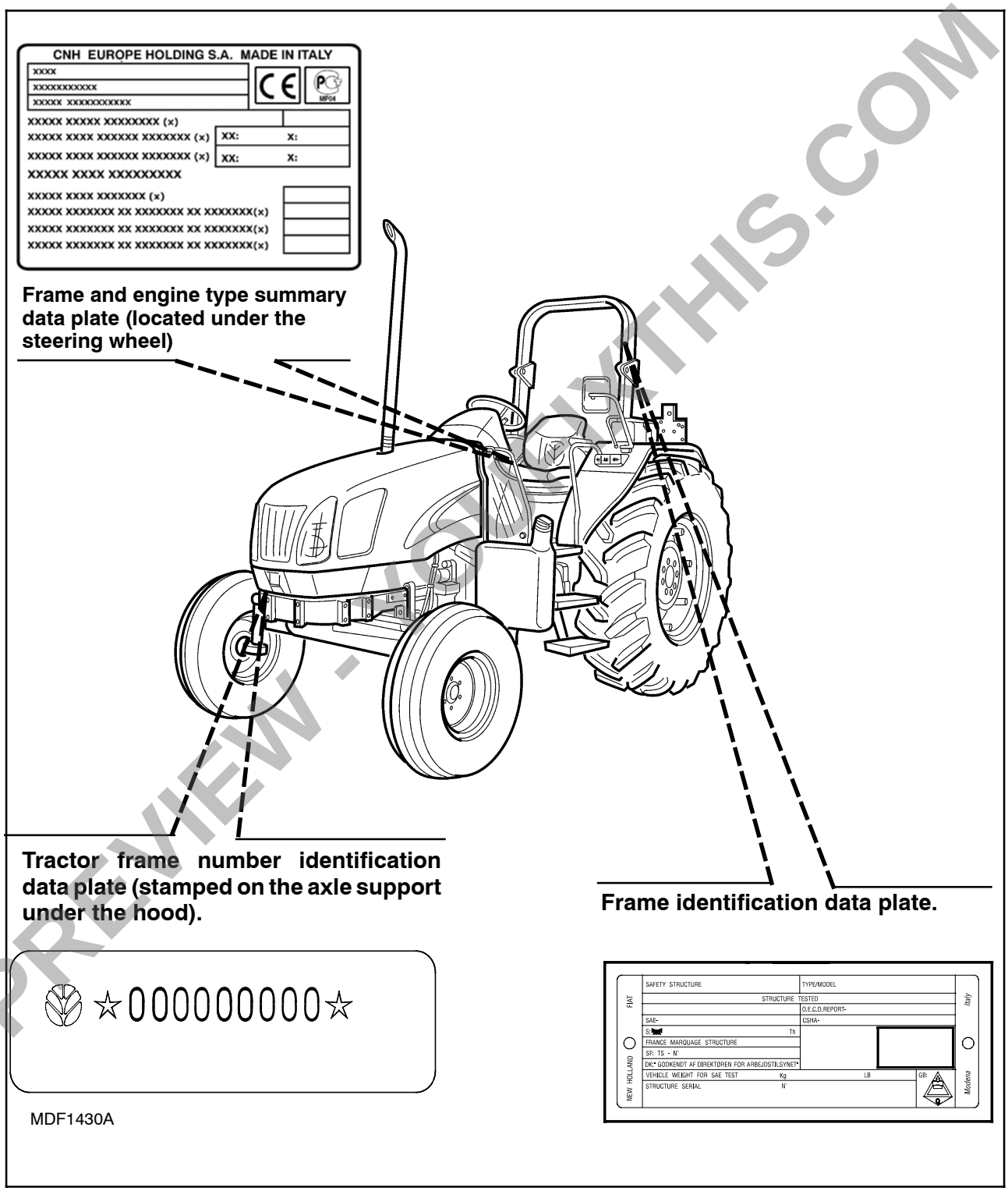
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TRACTOR IDENTIFICATION

Product identification numbers (pin) identify the tractor and its main components. The identification data must be supplied by the dealer for requests for spare parts or service operations. Identification data is of fundamental importance in the event of theft of the tractor. The location of the various identification data is shown below.



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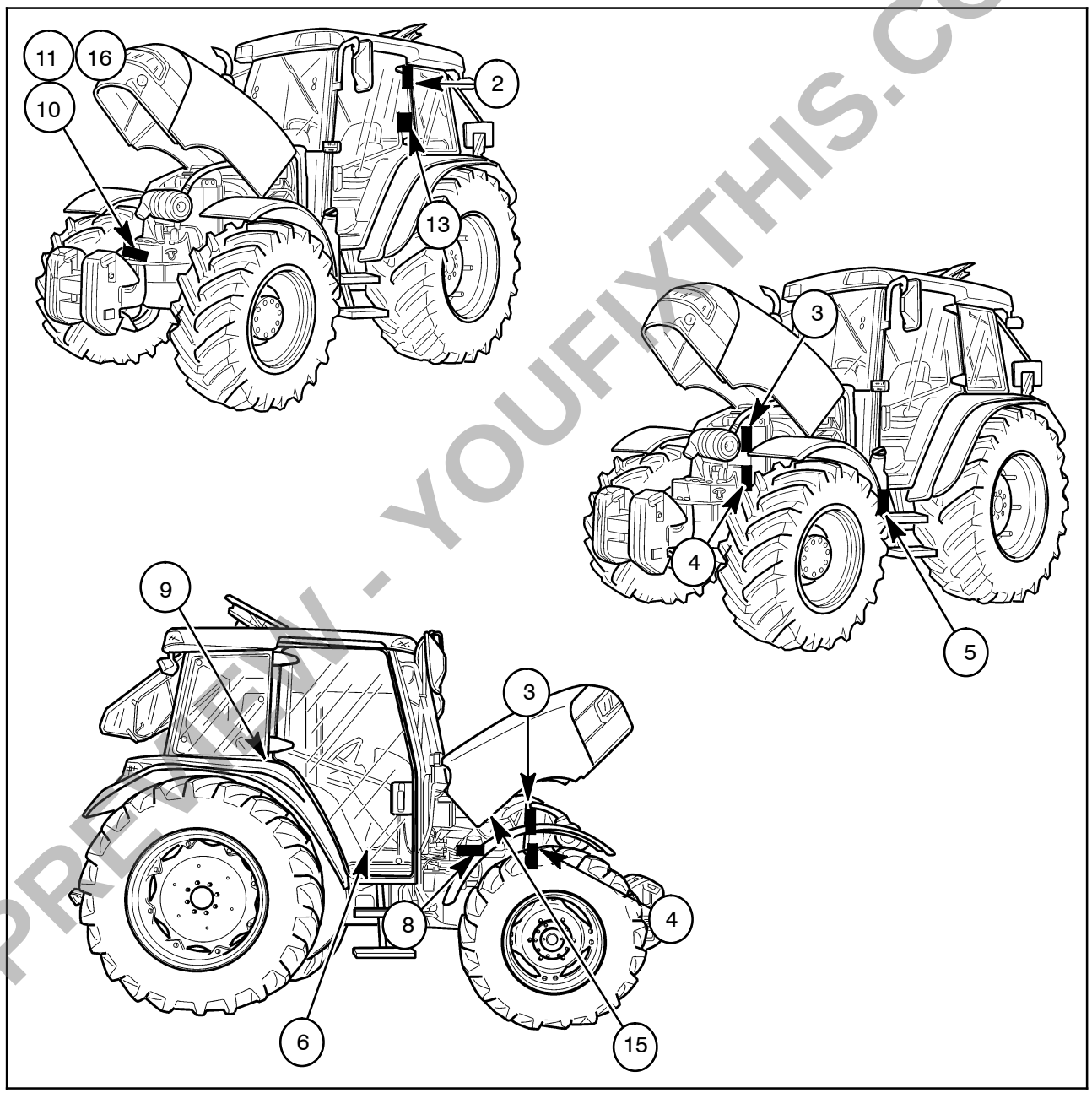
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SAFETY DECALS

Safety decals are placed on your tractor as a guide for your safety. Walk around the tractor, note the content and location of these decals before operating the tractor. For your convenience the safety decals and their location are provided in the following pages.

Keep the decals clean legible. If they become damaged or illegible, obtain replacements from your authorized dealer. If a decal is on a part that is replaced, make sure the decal is installed on the replacement part.

To clean the decals use a soft cloth, water and a mild soap solution. Do not use solvents, gasoline, or other harsh chemicals to clean decals. Solvents, gasoline, and other harsh chemicals may damage or remove the decals.



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STANDARDIZED SYMBOLS

For optimal tractor use, the following symbols and definitions have been adopted in compliance with current standardization procedures. The symbols are followed by a brief explanatory description.


Auxiliary starter device.


Alternator charging


Fuel level


Automatic fuel cut-off device


Engine speed (rpm x 100)


Total hours worked


Engine oil pressure


Engine coolant temperature


Lights


Front headlights on full beam


Front headlights dipped


Brake lights (STOP)


Front work lights


Rear work lights


Engine coolant level

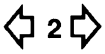

Horn


Radio

KAM Memory


Indicator lights


1 Indicator lights on first trailer


2 Indicator lights on second trailer


Windscreen washer/wiper


Rear windscreen washer/wiper


Heated air temperature


Heated fan


Air conditioning temperature


Dry air filter


Parking brake


Rotating beacon on cab roof


Intercooler temperature


Power take-off

N Gears in neutral


Creeper speed


Slow or low speed adjustment


Fast or high speed adjustment


Tractor ground speed


Differential lock


Rear transmission oil temperature


Transmission oil pressure


FWD engaged


FWD disengaged


Caution!

Hazard Lights

Caution! Corrosive substances

Adjustment control

Hydraulic lift – operating in position control

Hydraulic lift – operating in draft control

Accessory power socket

Implement power socket

Hydraulic lift disconnected

% slipping of rear wheels

Caution, under pressure! Open carefully

Arms raised

Arms lowered

Maximum lifting height

Transmission oil filter

Hydraulic jack extended

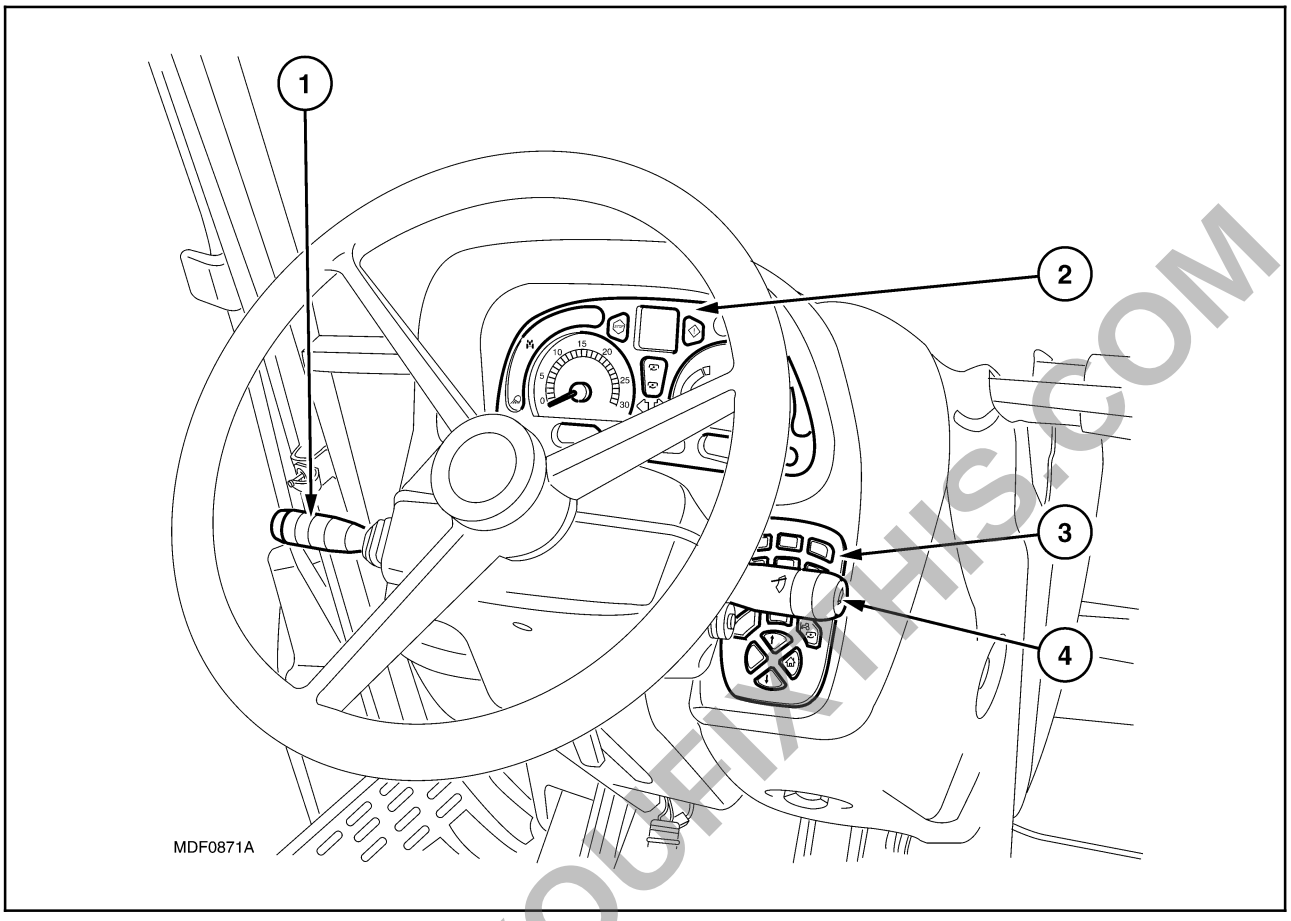
Hydraulic jack retracted

Hydraulic jack floating

Fault! Refer to Use and Maintenance manual

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Control Panel

1. Lights switch
2. Control panel
3. Keypad for setting operation.
4. Windscreen wiper control lever

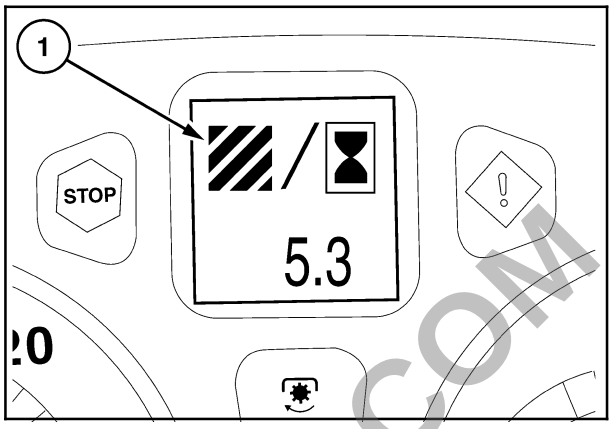
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Performance display

The display (**1**) shows various tractor settings and operating functions. Use the **CAL**/**SEL** button or the advanced keypad (if equipped) to select a function. The relevant symbol appears in the display to confirm the selected function.

NOTE: *See page 2-13 for an explanation of the advisory displays and information.*



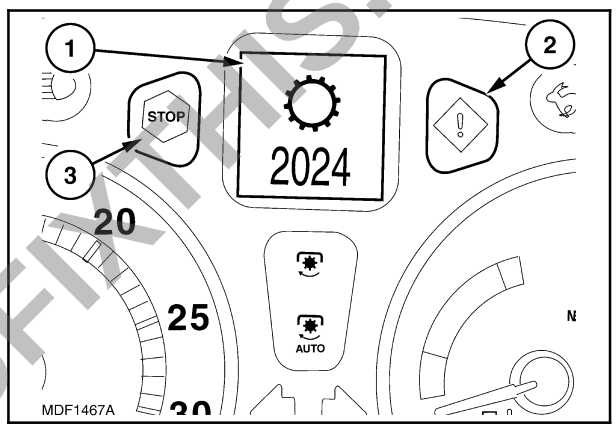
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Error Codes

Electronic Control Units (ECU) on the tractor, detect operating faults or errors occurring in key areas such as the gearbox, electrical and hydraulic systems.

If an operating fault or error occurs, the display (**1**) shows a fault symbol with an associated four-digit error code.

In certain instances, indicator lights (**2** or **3**) may illuminate, accompanied by an audible warning, depending on the severity of the fault. Contact your authorized dealer's specialized personnel for assistance.



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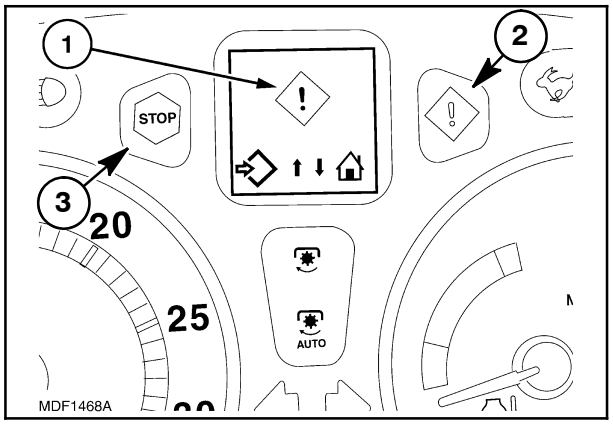
Active and Inactive Indicators

In addition to the error codes, the display (**1**) may show various indicator symbols. These symbols will be accompanied by the red (**3**)-(critical alarm) or orange (**2**)-(non-critical alarm) indicator light(s) illuminating.

The active symbols associated with the red indicator light coming on (**3**)-(critical alarm) stay displayed until the problem is resolved.

The inactive symbols associated with the orange indicator light (**2**)-(non-critical alarm) coming on are displayed for five seconds before the display (**1**) defaults back to the previous symbol. The orange indicator light (**2**) will stay on to highlight the current trouble.

Using the advanced keypad (if equipped) or the **CAL**/**SEL** pushbutton (standard models), it is possible to call up the inactive indicators not continuously displayed.

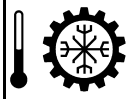
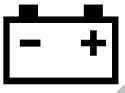


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ADVISORY DISPLAYS AND INFORMATION

DMD	PANEL LAMP	WARNING LAMP	ALARM	CAUSE	SOLUTION
		Amber flashing	Safety	Handbrake applied with the tractor in motion.	Release the hand brake.
		Amber flashing	Safety	Operator leaves seat without applying handbrake.	Apply handbrake.
		–	Action required	Handbrake not released during auto take–off.	Release the hand brake.
–		–	Safety	Handbrake not applied at key OFF.	Apply handbrake.
	–	–	Action required	Drive engaged without depressing clutch pedal.	Operate the clutch pedal.
	–	–	Action required	Shuttle lever in drive.	Place shuttle lever in neutral.
	–	–	Action required	Transmission park lock engaged.	Disengage park lock.
	–	–	Action required	Transmission oil temperature too low.	Run tractor until oil temperature increases.
–		–	Action required	Key ON, engine not running.	Turn key OFF or start engine.
–		–	General	Indicators not cancelled.	Cancel indicators.
–		–	Turn signals	Parking lights ON at key–off.	Turn parking lights OFF.
	–	Amber flashing	Safety	Rear Power Take–Off engaged, operator not present.	If accompanied by critical alarm apply parking brake.
	–	Amber flashing	Non Critical	Incorrect use of PTO control – Timed Out.	Do not engage PTO until DMD symbol clears.

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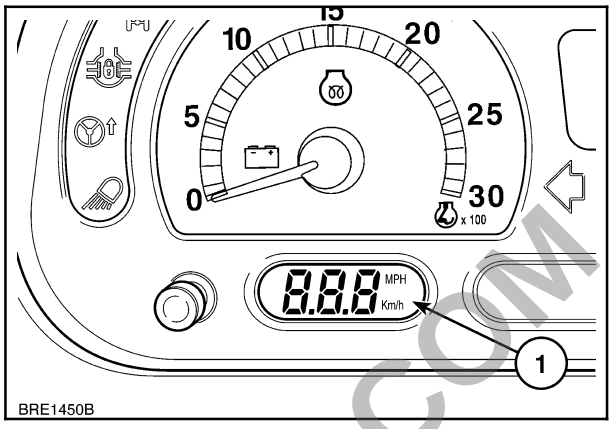
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Tractor Ground Speed Display

The bottom left-hand display (**1**) permanently shows the tractor's ground speed in km/h or in miles per hour (MPH). To pass from km/h to mph and vice versa, it is necessary to perform the following procedure.

NOTE: *If the tractor's tire sizes have been changed, it may be necessary to calibrate the tractor's ground speed display according to the radius of the new tires.*

NOTE: *The illustration shows the activated display.*

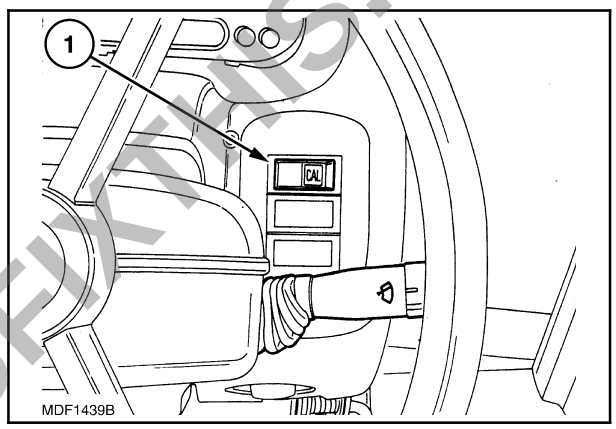


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Using the CAL/SEL Button (Standard Models)

With the ignition key in the OFF position, press and hold the CAL button (**1**) while turning the key to ON. The kmh/MPH symbols blink on the display. Release the **CAL**/**SEL** button.

Press the **CAL**/**SEL** button again to pass between km/h and MPH. When the desired unit is displayed, turn the ignition key to OFF to save the selection.

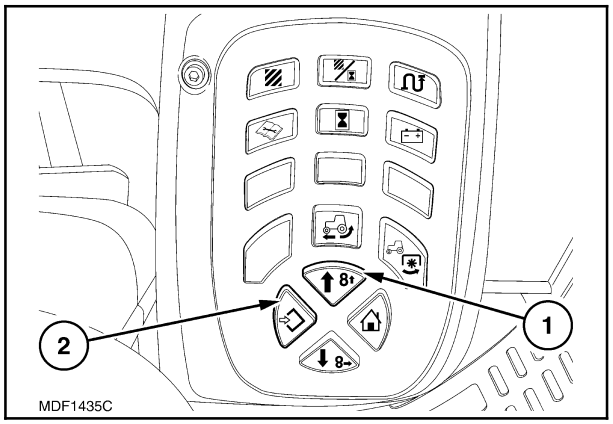


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Using the Advanced Keypad (Deluxe Models)

With the ignition key "ON", press and hold the Menu/Enter key (**2**) for 3 seconds. The display will show the SETUP MENU, which will pass on to the calibration screen after 2 seconds. Press the up arrow key (**1**) until the kmh/MPH menu appears.

Momentarily press Menu/Enter key (**2**) with the up or down arrow keys, and select the desired unit. Press Menu/Enter again to save the setting and go back to the main menu.



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Ground Speed Calibration Numbers

The rolling circumference for any given tire size will vary depending on tire manufacturer. The figures shown in the table are an average based on rolling circumference data supplied by several manufacturers. To obtain an accurate number for your rear tires, consult your authorized dealer or tire supplier.

If the size of tire on your tractor is not listed, then the road speed calibration may be carried out using one of the following procedures:

Carry out the auto calibration as previously described. Measure the rear tire rolling circumference with the following procedure:

1. To measure the rolling circumference of the rear tire, park the tractor on a level surface and make a vertical chalk mark on the sidewall where the tire tread contacts the ground. Make a second chalk mark on the ground aligning with the mark on the tire.

2. Slowly drive the tractor forward until the rear wheel has made one revolution and the chalk mark on the sidewall is again in contact with the ground. Mark the ground again and measure the distance between the two chalk marks.

Rear Tire Rolling Circumferences

Tire sizes	Tire Rolling Circumference	
	Cm	In
480/70R30	442.5	174.2
16.9R30	445.5	175.9
18.4R30	467.8	184.2
480/70R34	472.0	185.8
540/65R34	471.0	185.4
520/70R34	487.5	191.9
600/65R34	492.0	193.7
16.9R34	474.5	186.8
18.4R34	494.5	194.7
13.6R36	459.0	180.7
13.6R38	466.5	183.7
19.5L24	412.3	162.3

NOTE: *At the end of the calibration procedure, the display must show the ground speed. If nothing happens, it might not have been performed correctly as described.*
Repeat calibration from the beginning and if the trouble remains, call your dealer for a check-up.

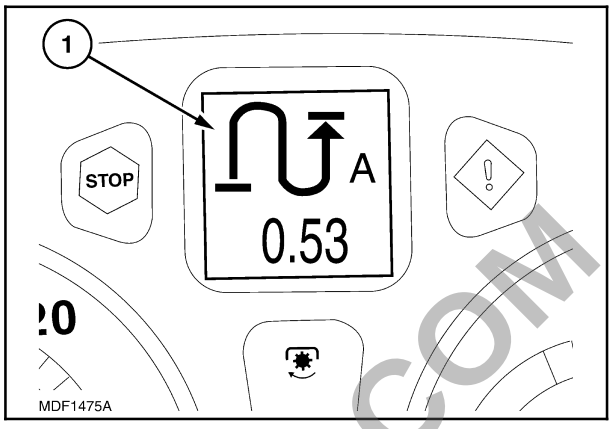
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Odometer (indication of the distance traveled)

The odometer provides a visual indication of the distance traveled in kilometers or miles as displayed on the display (**1**) depending on the set unit of measurement of the ground speed.

Two display modes are available, '**A**' and '**B**'. Mode '**A**' provides information as a trip counter, while mode '**B**' gives the total mileage. Both '**A**' and '**B**' modes can be reset.



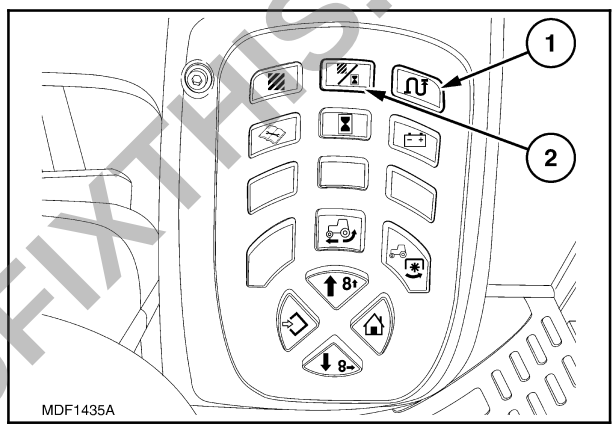
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Press key (**1**) once to select mode '**A**', press it again to select mode '**B**'. Press and hold the key for more than 3 seconds resets the odometer.

The display shows the distance traveled broken down into the following:

- 0–19.999 Km/Miles = 0.001 Km/Miles
- 20–199.99 Km/Miles = 0.01 Km/Miles
- 200–1999.9 Km/Miles = 0.1 Km/Miles
- 2000–19999 Km/Miles = 1.0 Km/Miles

NOTE: *Distance traveled calculations are based on axle speed and are subject to inaccuracies caused by the wheel slip that may be present.*



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Area Per Hour Forecast

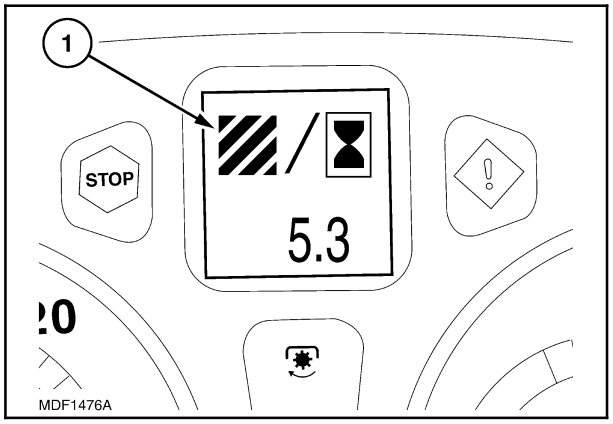
Press key (**2**) Figure 39, associated with the area per hour (AREA/HOUR). The display (**1**) shows the 'AREA/HOUR' symbol together with a forecast of the area worked in one hour at the current rate of work.

The value of the area per hour worked increases by 0.01 hectares/acres.

If the area accumulator is in one of the following 3 modes, see page 2–25:

- disengaged
- "OFF" mode
- "A" mode (with lift raised)

the display will show '0'.



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NOTE: *To get a correct forecast it is necessary to set the right width of the implement installed.*

NOTE: *Area per hour calculations are based on axle speed and are subject to inaccuracies caused by the wheel slip that may be present.*

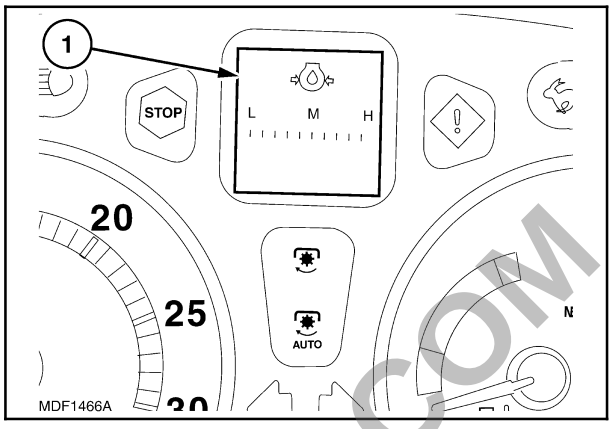
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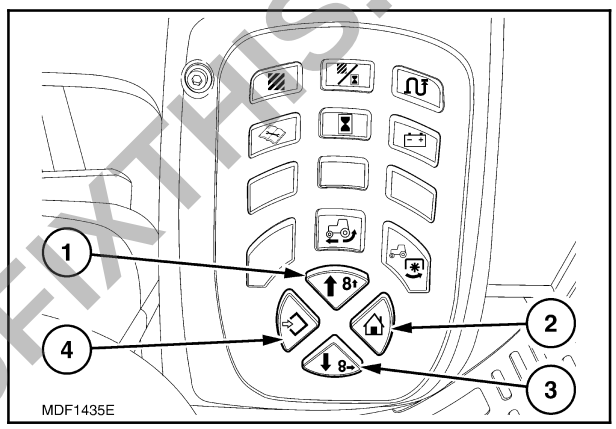
PROGRAMMING THE DISPLAYS

Programming Keys

To select, modify or save the various functions correlated with the performance display (**1**) and the advanced keypad (fig. 45), four keys (**1**–**4**) are used. All the program information appears on the performance display together with the associated symbol of the selected function.



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1. **Forward Function Selection Key (1):** Use this key to scroll forward through the menu functions or to increase a numerical value selected during a set-up procedure. The values increase by one unit each time the key is pressed.
2. **Exit/Cancel Key (2):** Press this key to quit calibration mode. You can use this key at any time during the set-up procedure, to cancel an operation or exit the menu; any information that has not been saved will be lost.
3. **Backward Function Selection and Numerical Selection Key (3):** In calibration mode, press this key to scroll backwards through the menu or select a numerical value to change. Whenever this key is pressed the blinking cursor indicating the selected digit shifts one space to the right.
4. **Menu/Enter Key (4):** Press and hold this key for 3 seconds to enter programming mode, the performance display will initially display SETUP/MENU. After 2 seconds, CAL appears together with the menu up and down scrolling arrows and the Menu/Enter symbol. After selecting the screen of the required function, press Menu/Enter again to access calibration mode. Press the same key again to confirm the data.

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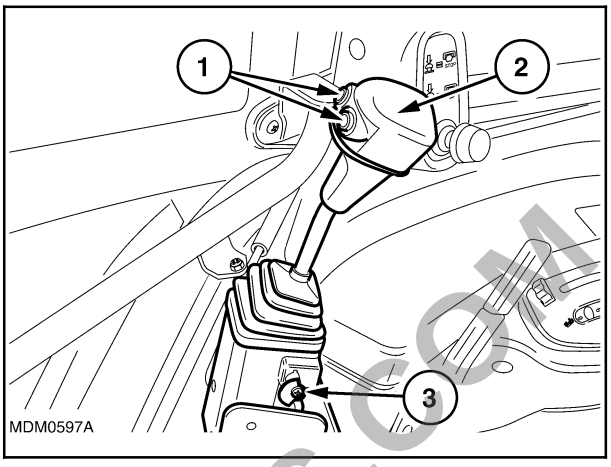
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JOYSTICK FOR AUXILIARY CONTROL VALVE (IF EQUIPPED)

The lever (**2**) governs the side control valves on the right–hand side of the tractor.

1. Operation selection buttons (**1**).
2. Hydraulic cylinder control lever (**2**).
3. Safety catch (**3**).

NOTE: *Refer to Section 7 – Accessories for more details.*



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SEAT BELTS

The seat belts are available in two versions:

- Without inertia reel for Standard seats.
- With inertia reel for Deluxe seats.

⚠ WARNING ⚠

Do not operate the tractor without wearing the seat belt. Failure to comply could result in death or injury.

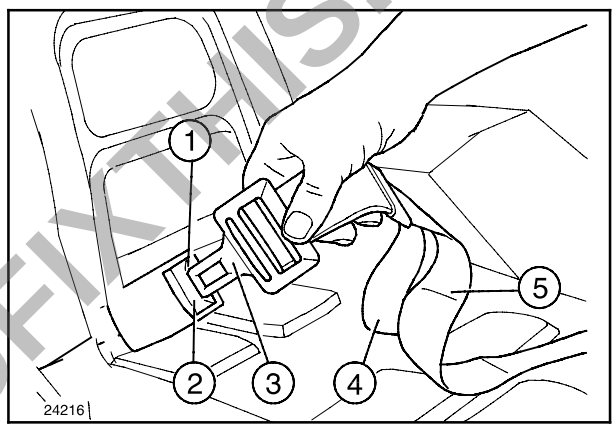
Do not wear a seat belt if the ROPS (roll over protective structure) is folded down. Failure to comply could result in death or serious injury.

Seat belts without inertia reel

To fasten the safety belt insert the tongue (**3**) into the the slot (**1**) until you hear a click indicating the seat belt is engaged.

Adjust the length of the safety belt by pulling strap (**4**) to loosen, and strap (**5**) to tighten.

To release the safety belt, press the button (**2**) and remove the buckle (**3**).



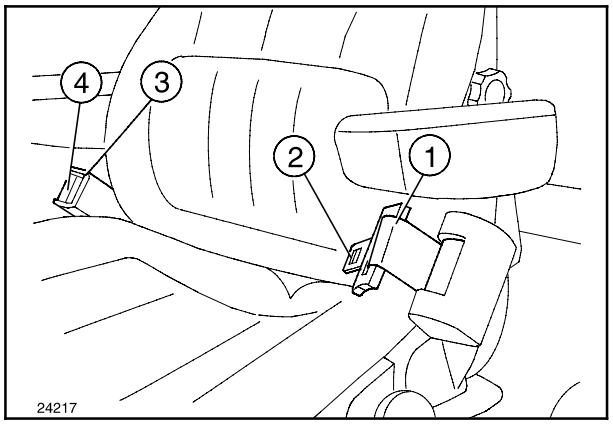
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Seat belts with inertia reel

To fasten the belt (**1**) pull the buckle out of the inertia reel and insert the tongue (**2**) in the slot (**3**) until you hear a click indicating the seat belt is engaged.

NOTE: *The belt adjusts automatically to the driver's body.*

To release, press the button (**4**) and release the belt. The belt retracts automatically.



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TOWING THE TRACTOR

⚠ WARNING ⚠

Never use ropes or cables to tow the tractor, they may break or slip. Failure to comply could result in death or serious injury.

The tractor must only be towed for short distances, for example from inside a building to the outside. It must never be towed for long distances on the road in heavy traffic.

Should it be necessary to tow the tractor, use a strong chain.

Tow the tractor from the rear, using only the drawbar, or the rear tow hitch.

Have an operator steer and brake the tractor when necessary.

To avoid damaging the transmission or other components that turn but are not lubricated during towing, observe the following:

- Only tow for a short distance.
- Do not exceed 8 km/h (5 mph).
- If possible, run the engine to lubricate the power steering components.
- Position the gear and range levers in neutral.

TRANSPORTING THE TRACTOR

NOTICE: *Do not hook or connect chains around the front axle transmission shaft, the power steering cylinders, the front axle itself or other parts of the tractor which could be damaged either by the chains or excessive strain.*

Load the tractor with all four wheels on the truck platform or flat bed trailer.

Secure the tractor on the transporter with suitable chains.

Secure the rear of the tractor using the tow bar or tow bar supports or the front of the tractor using the towing hitch.

NOTICE: *On models fitted with the turbocharger, cover the exhaust outlet to prevent the turbocharger rotating in the wind, resulting in possible damage to the bearings. The turbocharger turbine must be prevented from rotating freely with the engine off, as the shaft bearings will not be lubricated.*

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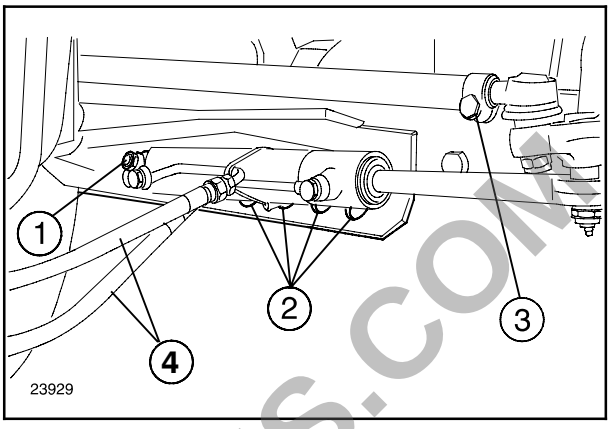
WHEEL TRACK ADJUSTMENT

2WD FRONT AXLE LENGTH ADJUSTMENTS

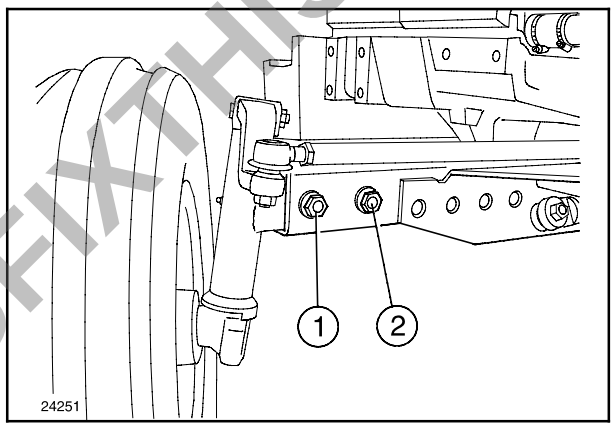
NOTE: *The tractor is fitted with hydrostatic steering, therefore additional adjustments are made on the right-hand side because of the position of the hydraulic steering cylinder.*

To adjust the 2WD front axle length, proceed as follows:

1. Raise the front of the tractor using a suitable jack positioned in the middle of the axle.
2. If required, adjust the slack in the steering cylinder hoses (**4**) fig. 96 (right-hand side only). Take note of where the hoses are secured.
3. Remove both sets of retaining bolt hardware (**1**) and (**2**) fig. 97. There is one set of hardware on each end of the axle.
4. Loosen the right-hand side steering strut fixing bolt (**3**) fig. 96.
5. Remove the nut from the angle adjuster pin (**1**) fig. 96.
6. Adjust the front axle length to one of the seven possible lengths provided, refer to page 3-60 for dimensions.
7. Insert the retaining bolt hardware (**1**) and (**2**) fig. 97 on each end of the axle. Tighten to a torque of 294 N·m (217 ft lb).
8. Attach the angle adjuster pin (**1**) fig. 97 into one of the corresponding holes (**2**) fig. 97 based on the new front axle length. Tighten the nut on the pin to a torque of 294 N·m (217 ft lb).
9. Confirm hydraulic hoses are not twisted or pinched. Secure hoses in their original position on the machine.
10. Tighten the steering strut fixing bolt (**3**) fig. 96 to a torque of 39 N·m (29 ft lb).



96



97

Maximum wheel track spacing
A larger track (maximum spacing between front tires) can be obtained by reversing the wheels on their hubs.

Only use the maximum track when absolutely necessary.

The tightening torque of the wheel-hub locknuts is 115 N·m (85 ft lb).

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FILLING FRONT TIRES WITH WATER AND ANTIFREEZE SOLUTION

The filling values with water and antifreeze for temperatures down to -20 °C (-4°F) shown in the table are only guidelines, and may vary according to the tire brand. It is advised to contact trained personnel. The quantity of water required for each tire is only approximate.

Filling with water and calcium chloride

Front tires	Water liters (US gal.) *	Solution for temperatures down to -20 °C (-4 °F)	
		Water liters (US gal.) *	Calcium chloride kg (lbs)
11.2R24	90 (23.77)	81 (21.39)	22 (48.52)
12.4R24	115 (30.38)	104 (27.47)	28 (61.75)
13.6R24	120 (31.70)	108 (28.53)	29 (63.96)
14.9R24	150 (39.62)	135 (35.66)	36 (79.40)
320/70R24	70 (18.49)	63 (16.64)	17 (37.49)
380/70R24	130 (34.34)	117 (30.90)	31 (68.37)
420/70R24	166 (43.85)	149 (39.36)	40 (88.22)
440/65R-24	150 (39.62)	135 (35.66)	36 (79.40)
480/65R24	175 (46.23)	158 (41.74)	42 (92.63)
11.2R28	102 (26.94)	92 (24.30)	24 (52.93)

Filling with water and anti-corrosive glycol ethylene

Front tires	Water liters (US gal.) *	Solution for temperatures down to -20 °C (-4 °F)	
		Water liters (US gal.) *	Glycol ethylene liters (US gal.)
11.2R24	90 (23.77)	60 (21.39)	30 (7.93)
12.4R24	115 (30.38)	105 (27.73)	38 (10.04)
13.6R24	120 (31.70)	109 (28.79)	40 (10.57)
14.9R24	150 (39.62)	137 (36.19)	50 (13.21)
320/70R24	70 (18.49)	64 (16.90)	23 (6.08)
380/70R24	130 (34.34)	118 (31.17)	43 (11.36)
420/70R24	166 (43.85)	151 (39.89)	55 (14.53)
440/65R-24	150 (39.62)	137 (36.19)	50 (13.21)
480/65R24	175 (46.23)	159 (42.00)	58 (15.32)
11.2R28	102 (26.94)	93 (24.56)	34 (8.98)

* The quantities of water for each tire shown in the table may differ depending on the tire manufacturer.

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SECTION 4
LUBRICATION AND MAINTENANCE

INTRODUCTION

This section gives full details of the maintenance procedures required to keep the tractor in a condition of maximum efficiency. The lubrication and maintenance table outlines maintenance procedures by operation numbers. All operations are numbered for quick reference.

In addition to the normal maintenance operations listed, the following parts must be checked during flexible maintenance or during the first 50 hours of operation:

- Tightness of wheel nuts.
- Oil levels in hub and front axle casing [four-wheel drive (4WD) models only].

⚠ WARNING ⚠

Park the tractor on level ground and, where possible, ensure that all of the hydraulic cylinders are fully extended before checking oil levels. Failure to comply could result in death or serious injury.

SAFETY PRECAUTIONS

Read and follow all the safety precautions, including those listed in Section 1.

NOTE: *Dispose of all used fluids and filters in the correct manner.*

⚠ DANGER ⚠

Do not carry out checks, lubrication and maintenance operations or adjustments on the tractor with the engine running. Failure to comply will result in death or serious injury.

HOW TO PREVENT CONTAMINATION OF THE SYSTEM

To avoid contamination when changing oil, filters, etc, always clean the area around the fill points, inspection and drain plugs, dipsticks and filters.

Before connecting external cylinders, make sure that the oil inside is clean, that it has not deteriorated after prolonged storage and that it is of the type specified.

To prevent dirt entering, clean the lubricating nipples before lubrication.

Clean excess grease from the nipples after lubrication.

MAINTENANCE INTERVALS

The intervals suggested in the lubrication and maintenance table are those to be followed under normal working conditions.

Intervals should be in line with working and environmental conditions. The intervals should be shortened in adverse working conditions (i.e. wet, mud, sand, high dust levels).

Shortening the interval from one job to the next is particularly recommended for the following components:

- Cleaning the cab air filters (especially in high humidity or dusty environments)
- Radiator cores (particularly in dusty conditions)
- Lubrication (particularly in muddy conditions)

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