4 - OPERATING INSTRUCTIONS

COMMISSIONING THE UNIT

Basic operating safety rules

⚠ WARNING

Inhalation/asphyxiation hazard!
Make sure there is proper ventilation before starting the engine.
Failure to comply could result in death or serious injury.

W0091A

⚠ WARNING

Unexpected machine movement!
Before starting the engine, move all operating controls to neutral or park lock position. This prevents accidental movement of the machine or start up of power-driven equipment.
Failure to comply could result in death or serious injury.

W0302A

⚠ WARNING

Hazard to bystanders!
ALWAYS make sure the work area is clear of bystanders and domestic animals before starting this procedure. Know the full area of movement of the machine. Do not permit anyone to enter the area of movement during this procedure.
Failure to comply could result in death or serious injury.

W0245A

⚠ WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE DEATH OR SERIOUS INJURY.
MAKE SURE THAT EVERY OPERATOR:
-is instructed in the safe and proper use of this machine.
-reads and understands the operator's manual for this machine.
-reads and understands ALL safety signs on the machine.
Failure to comply could result in death or serious injury.

W0188A

⚠ WARNING

Avoid injury!
Carefully read and observe all the precautionary advice contained in this manual.
Failure to comply could result in death or serious injury.

W0044A

⚠ WARNING

Misuse hazard!
Before starting the engine, make sure you are fully aware of the location and the function of each control.
Failure to comply could result in death or serious injury.

W0226A

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3 - CONTROLS AND INSTRUMENTS

ACCESS TO OPERATOR'S PLATFORM

Getting in and out of the machine

⚠ WARNING

Fall hazard!
Jumping on or off the machine could cause an injury. Always face the machine, use the handrails and steps, and get on or off slowly. Maintain a three-point contact to avoid falling: both hands on the handrails and one foot on the step, or one hand on the handrail and both feet on the steps. Failure to comply could result in death or serious injury.

W0141A

⚠ CAUTION

Fall hazard!
When entering or exiting the cab, never use the control levers as handholds. Always mount and dismount the machine in a safe way. Maintain a three-point contact with steps, ladders, and/or handholds. Failure to comply could result in minor or moderate injury.

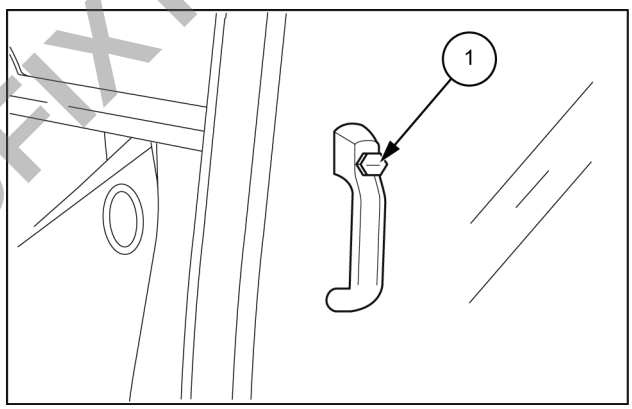
C0075B

Opening doors from outside

A wide opening door on the left- hand side permits entry to the cab aided by convenient grab handles and footstep with anti- slip treads.

The right- hand door should only be used in emergencies to exit the cab.

Use the ignition key to lock or unlock the cab door from the outside. With the door unlocked, press button **(1)** and pull the door towards you. The door is fitted with gas struts to hold them in the fully open position



MOIL13TR01420AA 1

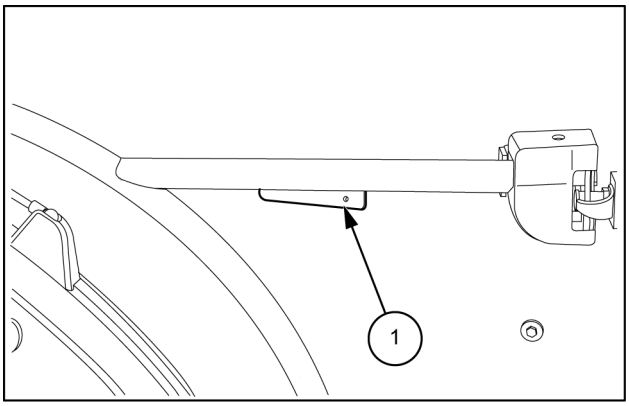
Before climbing on, check that the step treads are clean and free of dirt and foreign substances. Slippery areas can be a cause of accidents.

Climb the steps facing inwards and enter the cab. Sit in the driver's seat and fasten the safety belt.

Opening the doors from the inside

To leave the cab, release the safety belt, press the release lever **(1)** under the grab handle. Use the grab handle to push the door open.

Climb down the steps facing inwards.



MOIL13TR02125AB 2

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7 - MAINTENANCE

GENERAL INFORMATION

General safety before you service

⚠ DANGER

Improper operation or service of this machine can result in an accident.
Do not operate this machine or perform any lubrication, maintenance, or repair on it until you have read and understood the operation, lubrication, maintenance, and repair information.
Failure to comply will result in death or serious injury.

D0010A

⚠ DANGER

Improper operation or service of this machine can result in an accident.
Any unauthorized modifications made to this machine can have serious consequences. Consult an authorized dealer on changes, additions, or modifications that may be required for this machine. Do not make any unauthorized modifications.
Failure to comply will result in death or serious injury.

D0030A

⚠ WARNING

Avoid injury! Always do the following before lubricating, maintaining, or servicing the machine.
1. **Disengage all drives.**
2. **Engage parking brake.**
3. **Lower all attachments to the ground, or raise and engage all safety locks.**
4. **Shut off engine.**
5. **Remove key from key switch.**
6. **Switch off battery.**
7. **Wait for all machine movement to stop.**

Failure to comply could result in death or serious injury.

W1023A

⚠ WARNING

Maintenance hazard!
Before you start servicing the machine, attach a DO NOT OPERATE warning tag to the machine in a visible area.
Failure to comply could result in death or serious injury.

W0004A

⚠ WARNING

Maintenance hazard!
Always perform all service procedures punctually at the intervals stated in this manual. This ensures optimum performance levels and maximum safety during machine operation.
Failure to comply could result in death or serious injury.

W0132A

⚠ WARNING

Improper operation or service of this machine can result in an accident.
Read and understand the SAFETY INFORMATION Section before you perform any maintenance, service, or repairs. Read and understand the specific service procedures for the components you plan to work with before you start servicing the machine.
Failure to comply could result in death or serious injury.

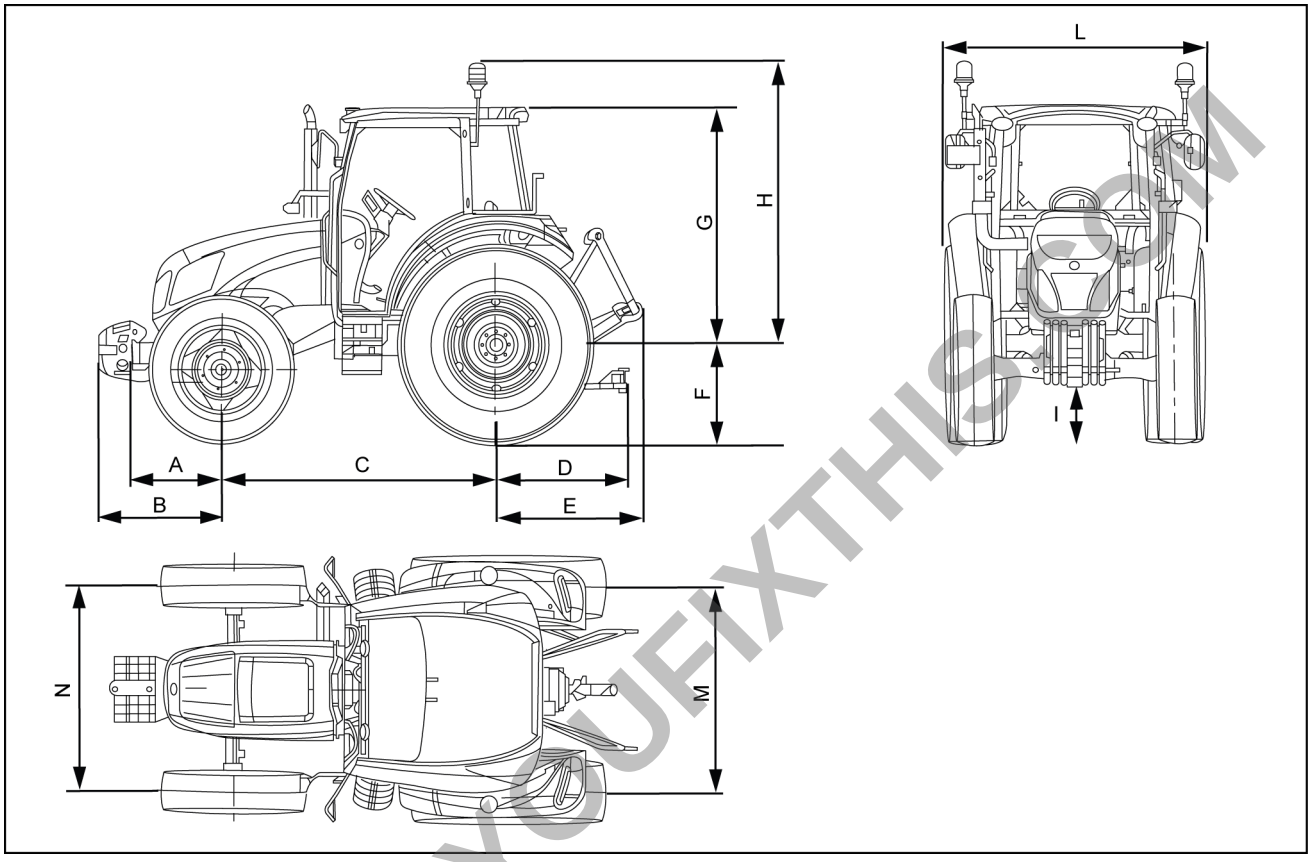
W0138A

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9 - SPECIFICATIONS

Dimensions and weights



MOIL13TR01919FB 1

Reference	Dimension
A	**671 mm** (**26.42 in**)
B	**933 mm** (**36.73 in**)
C ● 2WD	**2293 mm** (**90.28 in**)
C ● 4WD	**2235 mm** (**87.99 in**)
D	**831 - 881 mm** (**32.72 - 34.69 in**)
E	**1130 mm** (**44.49 in**)
F	Tire index radius
G	**1819 mm** (**71.61 in**)
H	**2140 mm** (**84.25 in**)
I	**248 - 423 mm** (**9.76 - 16.65 in**)
L	**1923 mm** (**75.71 in**)
M	**1337 - 1937 mm** (**52.64 - 76.26 in**)
N ● 2WD	**1429 - 2029 mm** (**56.26 - 79.88 in**)
N ● 4WD	**1235 - 1947 mm** (**48.62 - 76.65 in**)

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CALIBRATION

Clutch calibration - Power shuttle transmission

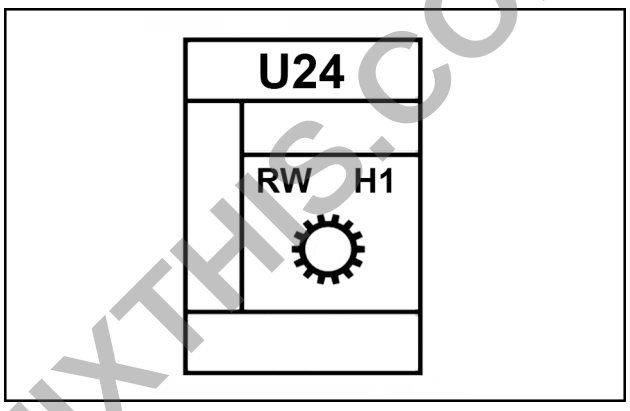
⚠ WARNING

Unexpected machine movement!
The machine could move automatically during calibration. Park on a flat surface, engage the parking brake, and be sure that the area around the machine is clear before starting the calibration process. Failure to comply could result in death or serious injury.

W0300A

This procedure calibrates all clutches, determining the current required to apply the clutch at the necessary engagement pressure.
If at any time during the calibration procedure the system detects one of the abnormal conditions described in the procedure below, a two-digit number beginning with the letter "U" is displayed, it is a standard error code. Before doing the calibration it is necessary to remedy the trouble.

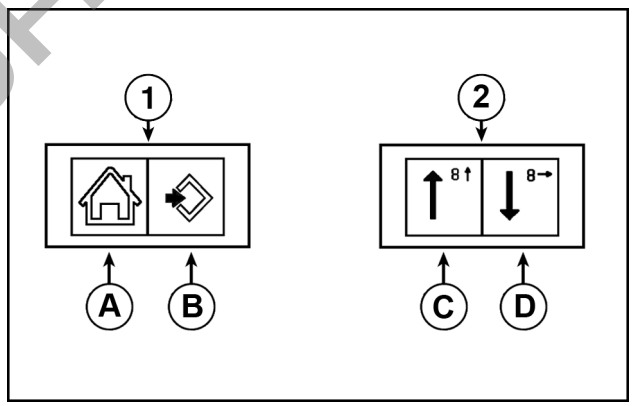
NOTE: *The list of error codes is shown below.*



DCAPLT5NE009S8A 1

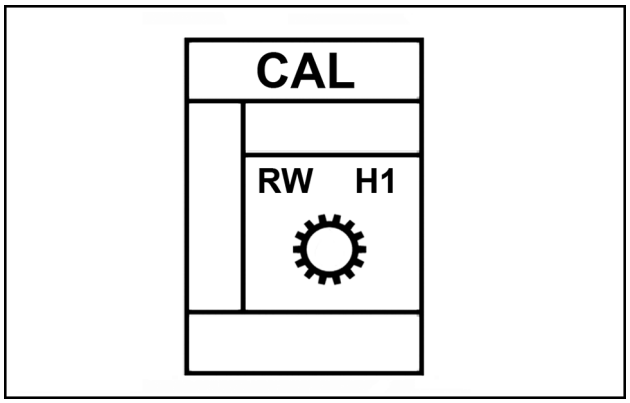
1. Park the tractor on level ground and engage the park brake. The tractor can move during this procedure so ensure that the area around the tractor is clear.
   To enter clutch calibration mode press switch **(1)** on symbol **(A)** and power up the panel, then press the symbol **(B)** and start the engine.

NOTE: *Calibration is only possible with the operator sitting in the driving seat.*



DCAPLT5NE046S3A 2

2. The central instrument display will briefly show " CAL" followed, after 2 seconds, by the oil temperature (in degrees Celsius).
3. Select the 3rd range (fast) and 1st gear.
4. Turn off the air-conditioner, where applicable.
5. Set engine rpm to **1300 RPM +/- 50 RPM**. Engine speed must be stable, with no noticeable hunting or surging. If necessary, change the throttle setting slightly to achieve a stable engine rpm.



DCAPLT5NE010S8A 3

6. Check that the hand brake is on and release the clutch pedal.
7. Place the shuttle lever in Forward or Reverse (NOT IN NEUTRAL).

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8 - TROUBLESHOOTING

FAULT CODE RESOLUTION

Engine - Troubleshooting

⚠ WARNING

Avoid injury! Always do the following before lubricating, maintaining, or servicing the machine.
1. **Disengage all drives.**
2. **Engage parking brake.**
3. **Lower all attachments to the ground, or raise and engage all safety locks.**
4. **Shut off engine.**
5. **Remove key from key switch.**
6. **Switch off battery key, if installed.**
7. **Wait for all machine movement to stop.**

Failure to comply could result in death or serious injury.

W0047A

⚠ WARNING

Improper operation or service of this machine can result in an accident.
If you do not understand a maintenance procedure, or doubt your ability to perform a maintenance procedure correctly, see your authorized dealer.
Failure to comply could result in death or serious injury.

W0157A

Problem	Possible Cause	Correction
The engine will not start or starts with difficulty	Incorrect starting procedure	See the starting procedure
	Fuel level low or empty	Check the fuel level
	Air in fuel system	Bleed fuel system
	Engine oil viscosity not right	Use oil of right viscosity
	Fuel not suitable for ambient temperature	Use correct type of fuel for temperature conditions
	Fuel system contaminated	Clean system
	Fuel filter clogged	Replace the filter cartridge
	Fuel injector fault	Contact your dealer
	Battery isolator activated, or faulty fuse and relay	Disconnect the battery isolator, check and if necessary change the fuse or the relay
The engine does not run properly and/or cuts out	Fuel system contaminated	Clean system
	Fuel injector fault	Contact your dealer
Engine does not develop full power	Engine overload	Change to lower gear or reduce load
	Air filter clogged	Carry out maintenance on air filter
	Incorrect fuel type	Use the right fuel
	Low engine operating temperature	Check thermostat
	Fuel injector fault	Have your dealer check the injectors
	Implement incorrectly set	See equipment manual
	Improper valve clearance	Check and adjust
	Idling speed too low	Contact your dealer
Abnormal engine knocking	Oil level low	Top up fluid level
	Oil pressure low	Contact your dealer
Low engine operating temperature	Thermostat malfunction	Replace thermostat
	Fan viscous coupling malfunction	Contact your Dealer
Oil pressure low	Oil level low	Add oil as required
	Oil grade or viscosity wrong	Drain and refill with oil of correct grade and viscosity

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6 - WORKING OPERATIONS

Transmission

Transmission operation

⚠ WARNING

Unexpected machine movement!
With the engine running and only the gear lever in neutral, the machine can engage and move suddenly if someone accidentally operates this lever. Place all levers in neutral, disengage the power take-off, lower any implements, and set the parking brake before exiting the machine. Use wheel chocks when parking on slopes.
Failure to comply could result in death or serious injury.

W0057B

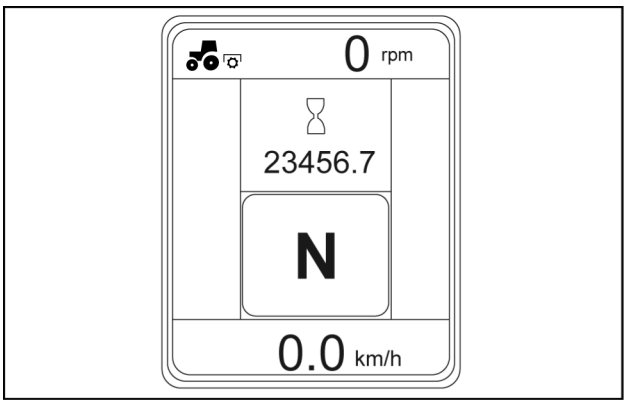
NOTE: *To start the engine you need to put the shuttle and power take−off (PTO) control levers into neutral, additionally you need to press the clutch pedal fully down.*

The tractor features many transmission ratios thanks to the combined use of different levers, so that for each main gear it is possible to obtain different speeds. Section 9 (Specifications) shows the tables of the various speeds for the different combinations.

Your tractor can be equipped with the following types of transmission, all with a mechanical or electro-hydraulic shuttle.

Transmission
12 x 12 gearbox with **Synchro Shuttle™** transmission
20 x 20 gearbox (12 x 12 gearbox with **Synchro Shuttle™** transmission and creeper unit)
24 x 24 gearbox (12 x 12 gearbox with **Synchro Shuttle™** transmission and splitter)
12 x 12 gearbox with Power shuttle transmission
20 x 20 gearbox (12 x 12 gearbox with Power shuttle transmission and creeper unit)
24 x 24 gearbox (12 x 12 gearbox with Power shuttle transmission and splitter)
24 x 24 gearbox (12 x 12 gearbox with **Dual Command™** transmission)
40 x 40 gearbox (12 x 12 gearbox with **Dual Command™** transmission and creeper unit)

NOTE: *with the tractor stationary and the shuttle lever in the forward drive position or in the reverse drive position, if you fail to depress the clutch pedal before you move the main shift lever from neutral, it will not be possible to engage the drive. In this case, the error code "N" will appear on the central display and an audible warning signal will sound simultaneously. Depress the clutch pedal and shift the shuttle lever to neutral to clear the display and re-engage the drive.*



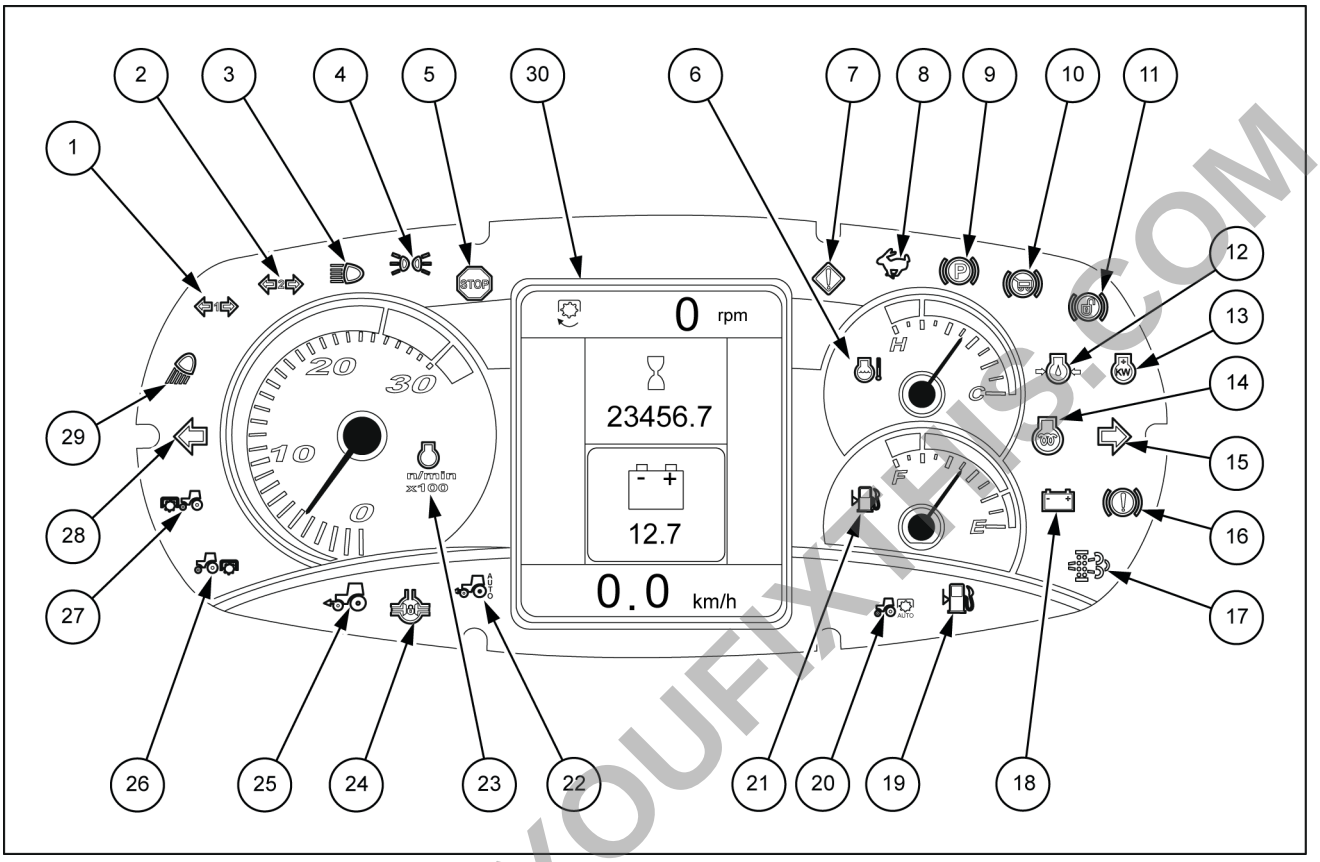
MOIL16TR01949AA 1

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FORWARD CONTROLS

Instrument cluster



MOIL13TR02210FA 1

The indicator lights on the control panel inform you of the operational condition of the machine. Some of these indicate faults arising during operation. An indicator light coming on may be followed by a continuous or intermittent buzzer. Depending on the severity of the trouble, the alarm will sound.

1 ⇦1⇨ **Trailer direction indicator light (green)**
This indicator light flashes together with the tractor/trailer direction indicators, if the first trailer is connected

2 ⇦2⇨ **Trailer direction indicator light (green)**
This indicator light flashes together with the tractor/trailer direction indicators, if the second trailer is connected

3 **Full beam headlights (blue)**
This indicator light will illuminate when the tractor lights are switched to high beam.

4 **Sidelights (green)**
This indicator light is illuminated when the tractor lights are turned on.

5 STOP **Stop warning light (red)**
If the red "Stop" warning light comes on, switch off the tractor immediately and look for the cause. A warning symbol will appear on the display **(30)** confirming the location of the fault.

6 **Engine coolant temperature gauge**
This instrument indicates the temperature of the engine coolant.

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MAINTENANCE CHART

Maintenance chart

Maintenance action	Check	Filling	Cleaning	Drain fluid	Replace	Adjust	Change fluid	Grease	Test	Tighten	Page no.
As required											
Radiator - Check - Fluid level	x										**7-17**
Windshield washer fluid reservoir - Filling		x									**7-17**
Air conditioning - Check	x										**7-18**
Hand brake lever - Check	x										**7-18**
Remote control valve reservoir - Check	x										**7-18**
Radiator - Cleaning			x								**7-19**
Brake pedals - Check	x										**7-19**
Hydraulic steering line - Check	x										**7-20**
External lighting - Check	x										**7-20**
Wheels - Check	x										**7-20**
Master clutch release control - Check	x										**7-21**
At warning message display											
Air cleaner - Cleaning			x								**7-22**
Brake fluid reservoir - Filling		x									**7-23**
Fuel filters - Drain fluid				x							**7-23**
Engine - Replace - Engine oil and filter					x						**7-24**
Every 10 hours or daily											
Engine - Check - Oil level	x										**7-25**
Air tanks - Drain fluid				x							**7-25**
After the first 50 hours of operation											
Maintenance - Tighten										x	**7-26**
Maintenance - Check	x										**7-26**
Maintenance - Replace					x						**7-26**
Maintenance - Cleaning			x								**7-27**
Maintenance - Test									x		**7-27**
Maintenance - Grease								x			**7-27**
Every 50 hours											
Steering cylinder - Grease - (2WD)								x			**7-28**
Front axle - Grease - Pivot pin (2WD)								x			**7-28**
Steering knuckle - Grease - (2WD)								x			**7-28**
Four-Wheel Drive (4WD) axle - Grease								x			**7-29**
Steering cylinder - Grease - SuperSteer™ axle								x			**7-29**
Axle articulation support - Grease - SuperSteer™ axle								x			**7-30**
Front drive shaft - Grease - SuperSteer™ axle								x			**7-30**
Rear three-point hitch - Grease								x			**7-30**
Rear hitch - Grease - Mechanical lift								x			**7-31**
Front hitch - Grease								x			**7-31**
Every 100 hours											
Air-conditioning condenser - Cleaning			x								**7-31**
Transmission cooler - Cleaning			x								**7-32**
Aftercooler - Cleaning			x								**7-32**
Cab air filters - Cleaning			x								**7-33**
Cab air filters - Cleaning - Recirculation Filters			x								**7-33**
Accessory belt - Check - Alternator belt	x										**7-34**
Compressor drive belt - Check	x										**7-34**

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Speed table for 12 x 12 gearbox

Synchro Shuttle™ transmission and Power shuttle transmission 30 km/h (18.64 mph) at 2300 RPM

FORWARD DRIVE SPEED

RANGE	GEAR	REAR TIRES ROLLING RADIUS				
		650	675	700	725	750
I	1	0.69 km/h (0.43 mph)	0.72 km/h (0.45 mph)	0.74 km/h (0.46 mph)	0.77 km/h (0.48 mph)	0.80 km/h (0.50 mph)
	2	1.06 km/h (0.66 mph)	1.10 km/h (0.68 mph)	1.14 km/h (0.71 mph)	1.18 km/h (0.73 mph)	1.22 km/h (0.76 mph)
	3	1.55 km/h (0.96 mph)	1.61 km/h (1.00 mph)	1.67 km/h (1.04 mph)	1.73 km/h (1.07 mph)	1.79 km/h (1.11 mph)
	4	2.15 km/h (1.34 mph)	2.23 km/h (1.39 mph)	2.31 km/h (1.44 mph)	2.40 km/h (1.49 mph)	2.48 km/h (1.54 mph)
II	1	2.38 km/h (1.48 mph)	2.47 km/h (1.53 mph)	2.57 km/h (1.60 mph)	2.66 km/h (1.65 mph)	2.75 km/h (1.71 mph)
	2	3.64 km/h (2.26 mph)	3.78 km/h (2.35 mph)	3.93 km/h (2.44 mph)	4.07 km/h (2.53 mph)	4.21 km/h (2.62 mph)
	3	5.33 km/h (3.31 mph)	5.54 km/h (3.44 mph)	5.75 km/h (3.57 mph)	5.95 km/h (3.70 mph)	6.16 km/h (3.83 mph)
	4	7.41 km/h (4.60 mph)	7.69 km/h (4.78 mph)	7.98 km/h (4.96 mph)	8.26 km/h (5.13 mph)	8.55 km/h (5.31 mph)
III	1	9.18 km/h (5.70 mph)	9.53 km/h (5.92 mph)	9.88 km/h (6.14 mph)	10.24 km/h (6.36 mph)	10.59 km/h (6.58 mph)
	2	14.04 km/h (8.72 mph)	14.58 km/h (9.06 mph)	15.12 km/h (9.40 mph)	15.66 km/h (9.73 mph)	16.20 km/h (10.07 mph)
	3	20.56 km/h (12.78 mph)	21.35 km/h (13.27 mph)	22.14 km/h (13.76 mph)	22.93 km/h (14.25 mph)	23.72 km/h (14.74 mph)
	4	28.53 km/h (17.73 mph)	29.63 km/h (18.41 mph)	30.73 km/h (19.09 mph)	31.82 km/h (19.77 mph)	32.92 km/h (20.46 mph)

REVERSE SPEED

RANGE	GEAR	REAR TIRES ROLLING RADIUS				
		650	675	700	725	750
I	1	0.69 km/h (0.43 mph)	0.72 km/h (0.45 mph)	0.74 km/h (0.46 mph)	0.77 km/h (0.48 mph)	0.80 km/h (0.50 mph)
	2	1.06 km/h (0.66 mph)	1.10 km/h (0.68 mph)	1.14 km/h (0.71 mph)	1.18 km/h (0.73 mph)	1.22 km/h (0.76 mph)
	3	1.54 km/h (0.96 mph)	1.60 km/h (0.99 mph)	1.66 km/h (1.03 mph)	1.72 km/h (1.07 mph)	1.78 km/h (1.11 mph)
	4	2.14 km/h (1.33 mph)	2.22 km/h (1.38 mph)	2.31 km/h (1.44 mph)	2.39 km/h (1.49 mph)	2.47 km/h (1.53 mph)
II	1	2.38 km/h (1.48 mph)	2.47 km/h (1.53 mph)	2.56 km/h (1.59 mph)	2.65 km/h (1.65 mph)	2.74 km/h (1.70 mph)
	2	3.63 km/h (2.26 mph)	3.77 km/h (2.34 mph)	3.91 km/h (2.43 mph)	4.05 km/h (2.52 mph)	4.19 km/h (2.60 mph)
	3	5.32 km/h (3.31 mph)	5.53 km/h (3.44 mph)	5.73 km/h (3.56 mph)	5.94 km/h (3.69 mph)	6.14 km/h (3.82 mph)
	4	7.38 km/h (4.59 mph)	7.67 km/h (4.77 mph)	7.95 km/h (4.94 mph)	8.24 km/h (5.12 mph)	8.52 km/h (5.29 mph)
III	1	9.15 km/h (5.69 mph)	9.50 km/h (5.90 mph)	9.86 km/h (6.13 mph)	10.21 km/h (6.34 mph)	10.56 km/h (6.56 mph)
	2	14.00 km/h (8.70 mph)	14.52 km/h (9.02 mph)	15.08 km/h (9.37 mph)	15.62 km/h (9.71 mph)	16.15 km/h (10.04 mph)
	3	20.50 km/h (12.74 mph)	21.29 km/h (13.23 mph)	22.08 km/h (13.72 mph)	22.86 km/h (14.20 mph)	23.65 km/h (14.70 mph)
	4	28.45 km/h (17.68 mph)	29.54 km/h (18.36 mph)	30.64 km/h (19.04 mph)	31.73 km/h (19.72 mph)	32.83 km/h (20.40 mph)

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Electronic lift calibration

⚠ WARNING

Unexpected machine movement!
The machine could move automatically during calibration. Park on a flat surface, engage the parking brake, and be sure that the area around the machine is clear before starting the calibration process. Failure to comply could result in death or serious injury.

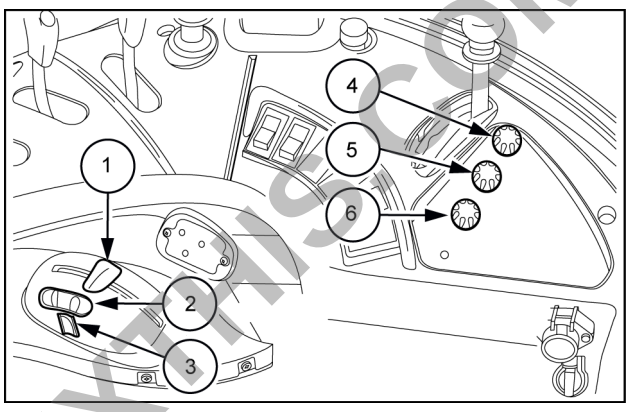
W0300A

Setting the valves

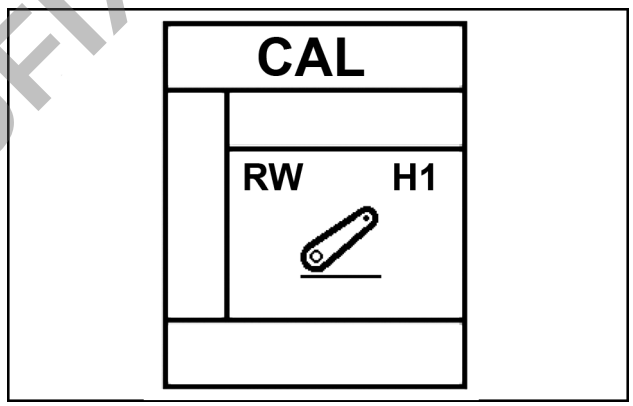
This procedure is to be performed when replacing the control valve of the electronic lift or of the control module. .

NOTE: *It's necessary to perform position calibration before the valve calibration (see the relevant paragraph)*

1. Park the tractor on level ground and engage the parking brake. The tractor can move during this procedure so ensure that the area around the tractor is clear. Calibration can only take place with the tractor stationary.
2. Disconnect any implements connected to the lift.
3. Lower the lift by means of the position control lever and connect to the implement linkage arms a weight of approximately **200 kg** (**440.9 lb**).
4. Fully turn the potentiometers **(4)**, **(5)** and **(6)** clockwise (maximum adjustment).
5. Press and hold down the up/down switch at the bottom **(3)** while starting the engine in order to enter the calibration procedure.
6. The display will show the following screen.
7. Set engine rpm to **1200 RPM**. Engine speed must be stable, with no noticeable hunting or surging. If necessary, change the throttle setting slightly to achieve a stable engine rpm.
8. Set the lever **(1)** fig. **1** regulating the working depth between **70 %** and **90 %** of its travel to start the calibration sequence. The display indicator will change from " CAL", as shown in fig. **2**, to “0” in order to indicate the start of the calibration procedure. During calibration the linkage is automatically raised and lowered a small amount 3 times, within 2-3 minutes. Each lifting and lowering is counted (0-1-2) on the display.
9. The display shows “END” on completing the calibration procedure.
10. Turn the key-start onto STOP to save the new settings.
11. On completing calibration, to use the lift it is necessary to recapture the lift (see relevant paragraph).



DCUTLNEIT001S6A 1



DCAPLT5NE037S6A 2

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Display warnings overview

DISPLAY (DMD)	PANEL LAMP	WARNING LAMP	ALARM	CAUSE	CORRECTION
			Safety	Operator leaves seat without applying hand brake or if there is a fault with the seat switch,	Apply the hand brake; if it persists have the seat switch checked.
	-	-	Remedy	The manoeuvre performed is incorrect or dangerous.	Cycle clutch pedal.
				Only with **Dual Command™** transmission	
	-	-	Remedy	Hand brake engaged during auto drive off.	Release the hand brake before auto drive off.
				Only with **Dual Command™** transmission	
	-	-	Remedy	Shuttle lever in drive.	Place the shuttle lever in neutral.
				Only with **Dual Command™** transmission	
	-	-	Remedy	Gearbox oil temperature too low.	Operate the tractor and wait for the oil temperature to be optimal.
				Only with **Dual Command™** transmission	
 STOP	-		Critical	Driveline oil pressure - too low. The tractor will be stopped automatically in a short time.	Immediately stop the engine before it shuts down automatically, check the level of oil in the transmission and top it up if necessary.
 STOP	-		Critical	Transmission oil temperature too high. The tractor will be stopped automatically in a short time.	Immediately stop the engine before it shuts down automatically, and leave it to cool. Restart work and if the warning continues, switch off the engine again, check the oil level of the transmission, top it up if necessary and change the filter when needed.
				Only with **Dual Command™** transmission	
 STOP	-		Critical	Engine coolant temperature too high. The tractor will be stopped automatically in a short time.	Immediately stop the engine before it shuts down automatically, and leave it to cool. Make sure the radiator is clean and the fluid is at the right level.
 STOP			Critical	Engine oil pressure too low. The tractor will be stopped automatically in a short time.	Immediately stop the engine before it shuts down automatically, check the level of engine oil and top it up if necessary.
 n/min	-		Critical	Maximum engine speed exceeded.	Break immediately to bring the engine below **3000 RPM**.and prevent damage to the engine itself.
				Mechanical transmission only	
 STOP	-		Critical	Engine error state. The tractor will be stopped automatically in a short time.	Immediately stop the engine before it shuts down automatically, and contact your local dealer.

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2 - SAFETY INFORMATION

Safety rules and signal word definitions

Personal safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

⚠ DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

⚠ WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

⚠ CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: *Notice indicates a situation that, if not avoided, could result in machine or property damage.*

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: *Note indicates additional information that clarifies steps, procedures, or other information in this manual.*

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

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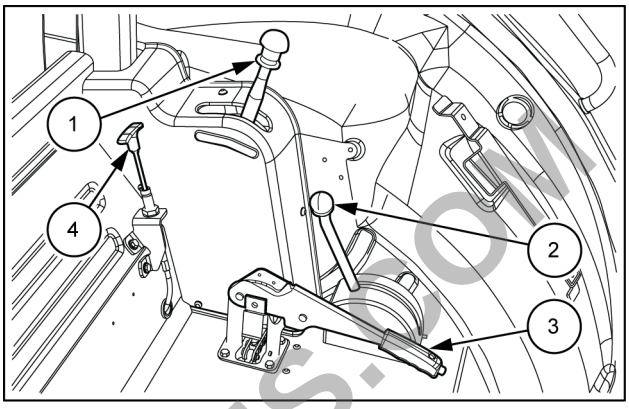
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LEFT-HAND SIDE CONTROLS

Cableless version

1. Creeper control lever or splitter control lever.
2. Rear power take-off engagement lever with mechanical control (models with **Synchro Shuttle™** transmission).
3. Hand brake control lever.
4. Power take-off speed selection handle.



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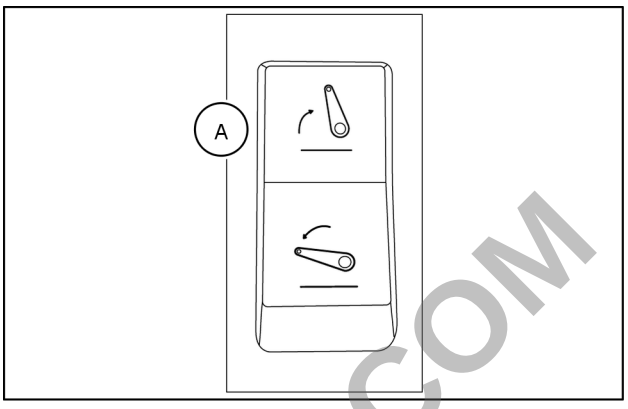
Front hitch - Calibrate

Whenever an implement is hitched onto the front lift, calibration is necessary to obtain the rated value of the pressure in the lift cylinders. Proceed as follows.

With the implement connected, run the engine and position the tractor on a flat surface.

Press the switch on the right console to position **(A)** to lift the implement.

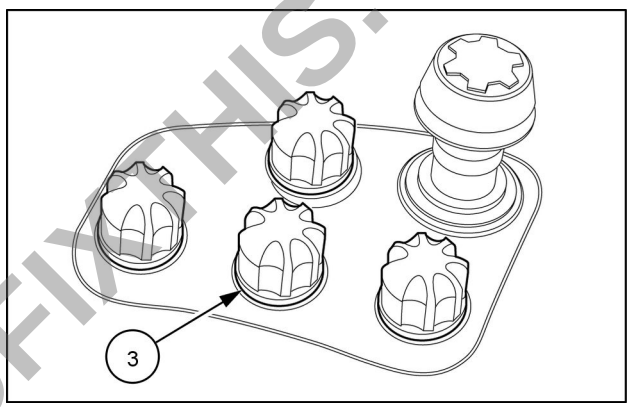
Lift the implement from the ground.



MOIL13TR02131AA 1

Set the arm lift limit on the potentiometer **(3)** according to the implement mounted.

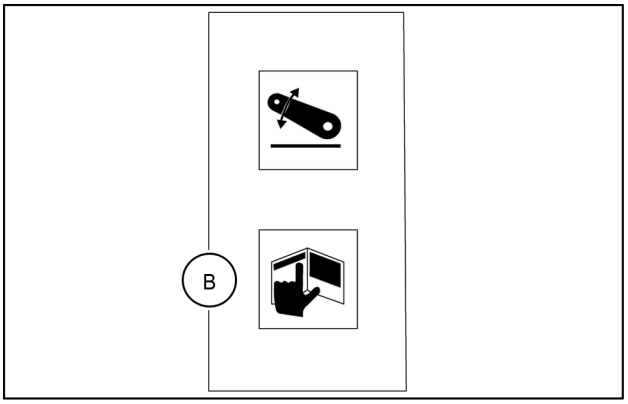
Press the lift switch again to position **(A)** figure **1**; in this case there will be no lifting because the height has been limited by the potentiometer **(3)**.



MOIL13TR02551AB 2

Hold the lifting switch down for **10 s** until the indicator **(B)** starts blinking for **5 s**; the calibration saving operation is now concluded.

NOTE: *If during the calibration process the load pressure is under* ***14 bar****, no setting gets saved to memory.*



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Radiator - Change fluid - Conventional coolant

⚠ CAUTION

Burn hazard!
Hot coolant can spray out if you remove the filler cap while the system is hot. After the system has cooled, turn the filler cap to the first notch and wait for all pressure to release before proceeding. Failure to comply could result in minor or moderate injury.

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⚠ WARNING

Hazardous chemicals!
Coolant can be toxic. Avoid contact with skin, eyes, and clothing. Antidotes:
EXTERNAL - Rinse thoroughly with water. Remove soiled clothing.
INTERNAL - Rinse the mouth with water. DO NOT induce vomiting. Seek immediate medical attention.
EYES - Flush with water. Seek immediate medical attention.
Failure to comply could result in death or serious injury.

W0282A

During manufacture, the manufacturer fills the engine cooling system with a high-quality coolant. The coolant contains a chemical or organic anti-oxidant that increases and extends the protection of conventional anti-freezes.
The coolant fluid will:
Increase rust prevention.
Reduce scale formation.
Minimize cylinder wall erosion (pitting).
Reduce foaming of the coolant.

The coolant must be replaced regularly to maintain an optimum level of protection. To achieve this level of protection, drain the system, clean the system, and fill the system with new coolant.

NOTICE: *Never put cold coolant in a hot engine. The difference in temperature could cause the block or head to crack.*

NOTICE: *Allow the engine to cool before draining the coolant. The cooling system operates under pressure, controlled by the radiator pressurized cap* ***(1)*** *figure* ***2****. It is dangerous to remove the pressurized cap while the system is hot. When cool, use a thick cloth and turn the cap slowly to the first stop and allow the pressure to escape before fully removing the cap. Keep coolant away from the skin. Comply with all the precautions given on the coolant container.*

NOTE: *When changing the type of engine coolant from* ***NEW HOLLAND AMBRA AGRIFLU*** *to* ***NEW HOLLAND AMBRA ACTIFULL™ OT EXTENDED LIFE COOLANT*** *or vice versa, refer to the* ***7-9*** *page.*

Reqd.	Crop
Models with cab **16.0 L** (**3.5 UK gal**) Model without cab: **14.0 L** (**3.1 UK gal**)	Conventional coolant: **NEW HOLLAND AMBRA AGRIFLU** mixed **50 %** with water

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