

4 - OPERATING INSTRUCTIONS

COMMISSIONING THE UNIT

Basic operating safety rules [36125774 - V3 - 19 November 2014]

⚠ 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

INSTRUCTOR'S SEAT

Instructor's seat [100340373 - V3 - 22 April 2015]

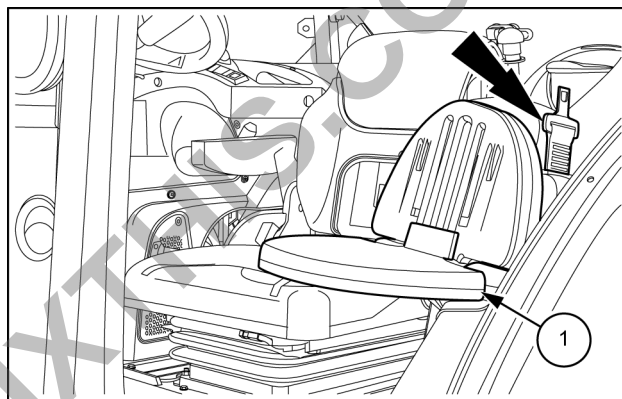
⚠ WARNING**Fall hazard!**

The instructional seat shall only be used when training a new operator or when a service technician is diagnosing a problem. Do not permit others, especially children, to ride in the seat. Keep the cab door(s) closed. Wear a seat belt at all times.

Failure to comply could result in death or serious injury.

W0301A

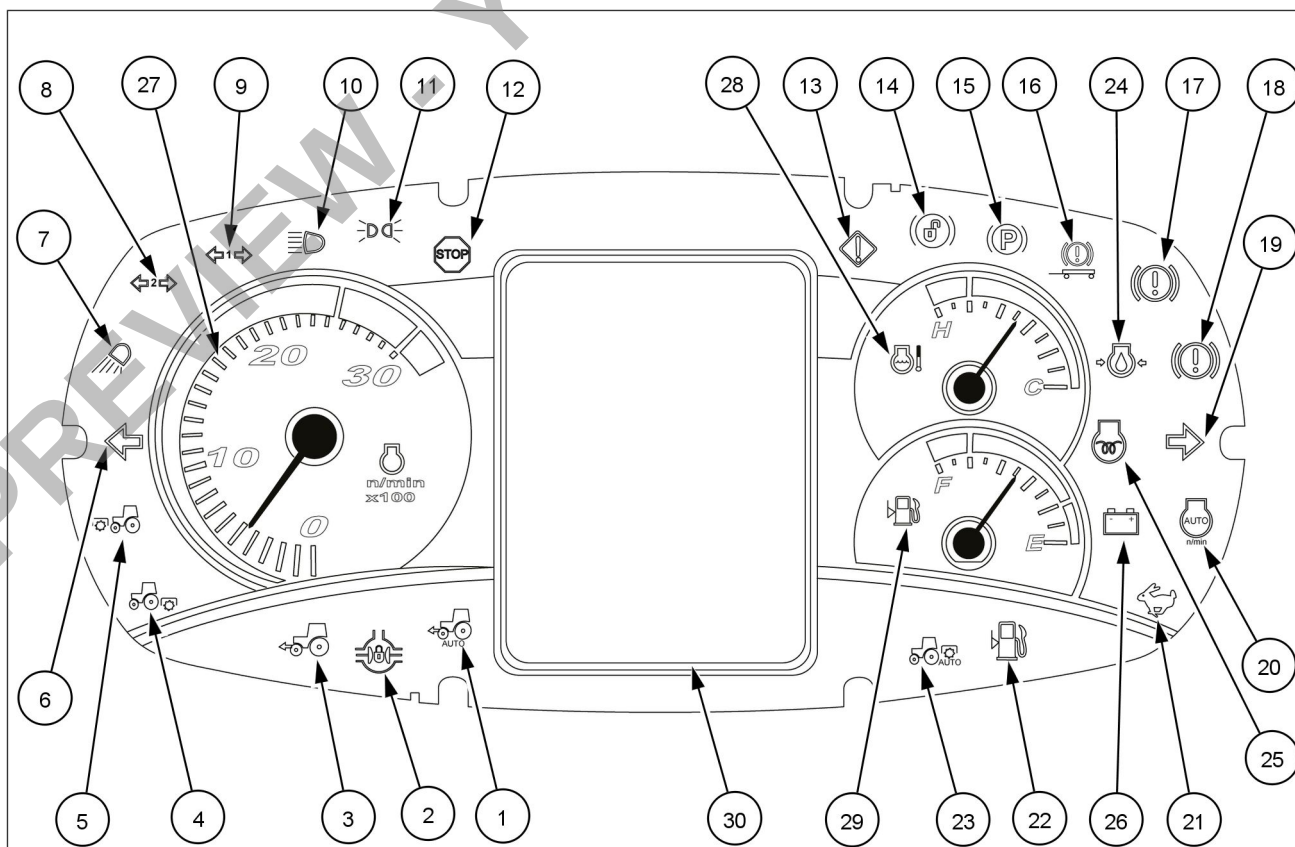
Only use the instructional seat (1) for training new operators or when a technician is diagnosing a problem. The occupant must wear the seat belt indicated. Do not allow others to ride in the seat.



MOIL13TR02252AB 1

FORWARD CONTROLS

Instrument panel [103828224 - V1 - 17 May 2017]



MOIL15TR02126FC 1

MAINTENANCE CHART

Maintenance chart [104009183 - V3 - 27 July 2018]

Maintenance action	Grease				Tightening				Page Nr.
	Drain fluid			Check	Replace				
	Cleaning				Test				
	Filling operation				Change fluid				
	Adjust								
As required									
Radiator - Check - Liquid level	x								7-18
Windshield washer fluid reservoir - Filling		x							7-19
Front light – Check	x								7-19
Hand brake lever - Check (where fitted)	x								7-19
Air conditioning - Check	x								7-20
Radiator - Cleaning			x						7-20
Brake pedals - Check	x								7-20
Wheels - Check	x								7-21
On display of an alarm message									
Air cleaner - Clean			x						7-21
Fuel filters - Fluid draining				x					7-22
Brake fluid reservoir - Filling		x							7-23
Every 10 hours or daily									
Engine - Check - Oil level	x								7-23
Front loader and bucket - Grease					x				7-24
After the first 50 hours of use									
Maintenance - Tighten						x			7-24
Maintenance - Check	x								7-24
Maintenance - Replace							x		7-25
Maintenance - Clean			x						7-25
Maintenance - Test								x	7-26
Maintenance - Grease					x				7-26
Every 50 hours									
Rear three-point hitch linkage - Grease					x				7-26
Rear hitch - Grease - Mechanical lift					x				7-27
Axle articulation - Grease – (4WD)					x				7-27
Steering knuckle - Grease - (2-WD)					x				7-27
Front axle - Grease – Pivot pin (2-WD)					x				7-28
Steering cylinder - Grease - (2-WD)					x				7-28
Every 100 hours									
Air conditioning condenser – Cleaning			x						7-28
Transmission cooler – Cleaning			x						7-29
Cab air filters - Cleaning			x						7-29
Cab air filters - Cleaning - Recirculation Filters			x						7-30
Accessory belt - Check - Alternator belt	x								7-30
Compressor drive belt - Check	x								7-30
Front loader and bucket - Check - hardware	x								7-31
Every 300 hours									
Lift oil filters - Replace							x		7-32
Gearbox oil filter – Replace							x		7-32
Gearbox - Check - Oil level	x								7-33
Air cleaner - Clean			x						7-33
Four-wheel drive (4WD) axle – Check – Oil level	x								7-34
Final drive - Check – Oil level (4WD)	x								7-34

8 - TROUBLESHOOTING

FAULT CODE RESOLUTION

Engine - Troubleshooting [102475109 - V1 - 23 November 2015]

⚠ 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 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 filter element
	Fuel injector fault	Contact your dealer
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
Excessive oil consumption	Oil level too high	Reduce oil level

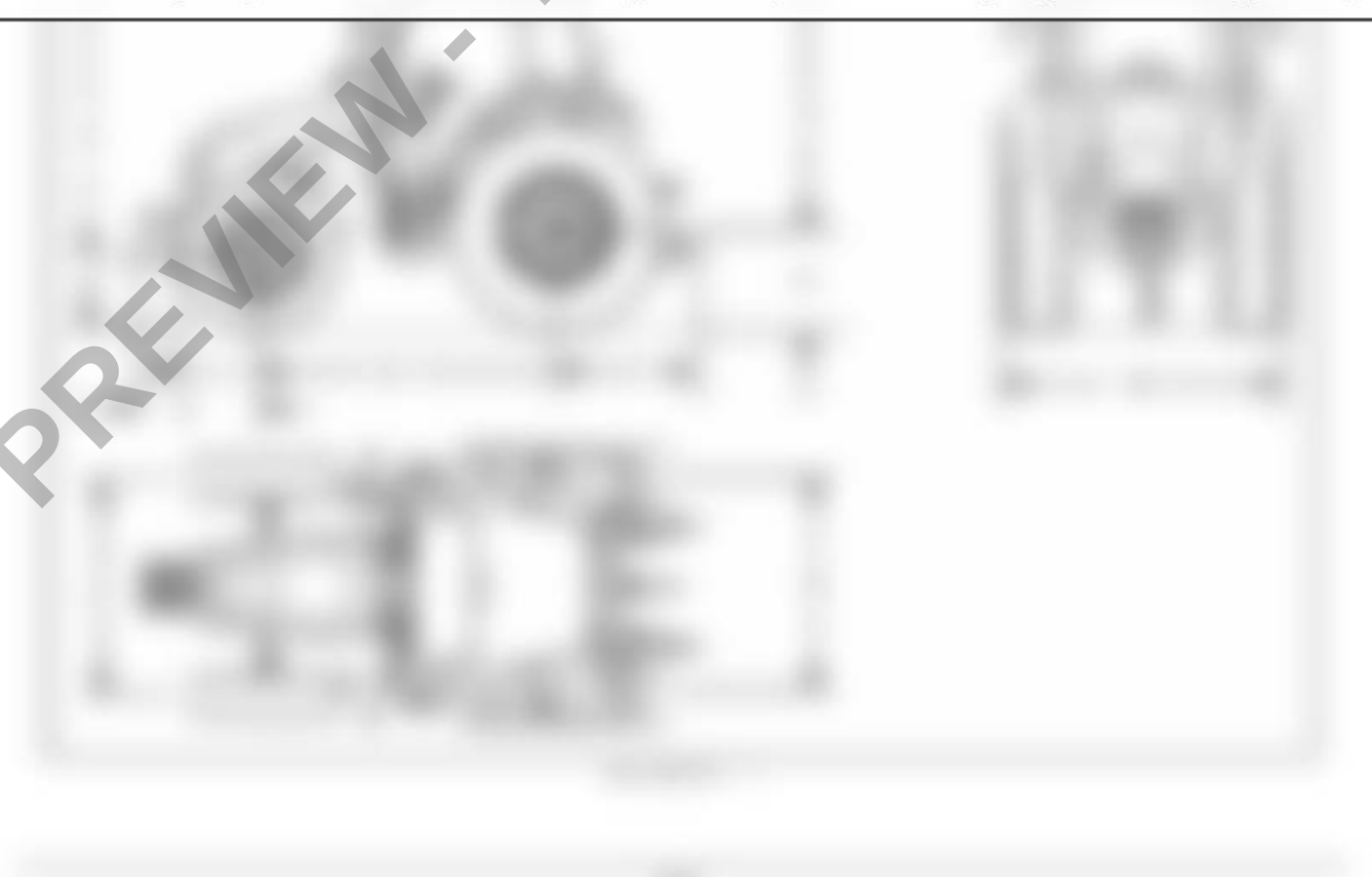
9 - SPECIFICATIONS

Dimensions and weights [100456560 - V2 - 06 December 2013]

DIMENSIONS WITH ROPS



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2 - SAFETY INFORMATION

Safety rules and signal word definitions [24481340 - V8 - 07 July 2014]

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 and on machine safety signs, 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. The color associated with DANGER is RED.

⚠ WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury. The color associated with WARNING is ORANGE.

⚠ CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury. The color associated with CAUTION is YELLOW.

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 damage or property damage. The color associated with Notice is BLUE.

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine damage 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.

STOPPING THE UNIT

Stopping the engine	4-4
---------------------------	-----

MOVING THE UNIT

Machine movement start-up	4-5
Installing the loader	4-6
Removing the loader	4-7
Installing the bucket	4-8
Removing the bucket	4-10

5 TRANSPORT OPERATIONS

ROAD TRANSPORT

Tractor transporting	5-1
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RECOVERY TRANSPORT

Towing the tractor	5-1
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6 WORKING OPERATIONS

GENERAL INFORMATION

Roll Over Protective Structure (ROPS)	6-1
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Transmission

Transmission operation	6-2
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FOUR WHEEL DRIVE (4WD)

Four-wheel drive with mechanical engagement	6-4
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Four-wheel drive with electro-hydraulic control	6-6
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DIFFERENTIAL LOCK

Mechanical differential lock	6-7
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REAR POWER TAKE-OFF (PTO)

Safety rules	6-7
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Attaching Power-Take Off (PTO) driven equipment	6-8
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Power take-off speeds	6-10
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Power Take Off (PTO)	6-11
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Mechanically controlled power take-off	6-12
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Stationary power take off operation switch	6-13
--	------

REAR REMOTE CONTROL VALVE(S)

Remote control valves - Safety rules	6-14
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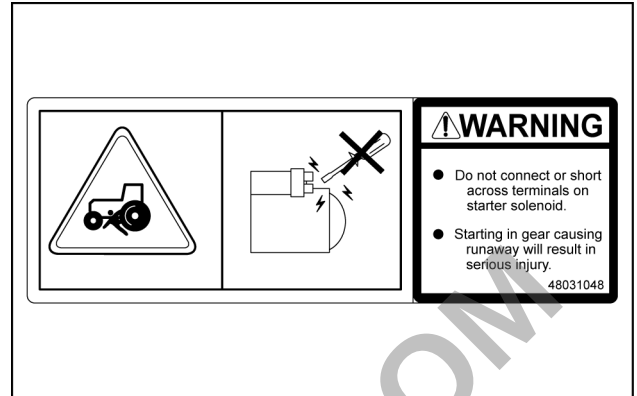
Operation	6-14
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Position: applied to the starter motor.
Part Number: 48031048

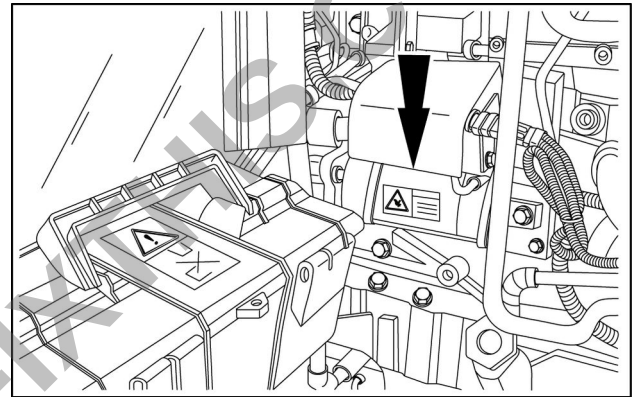
DANGER

Unexpected machine movement.
Start engine only from seat.

Failure to comply will result in death or serious injury.



48031048 7



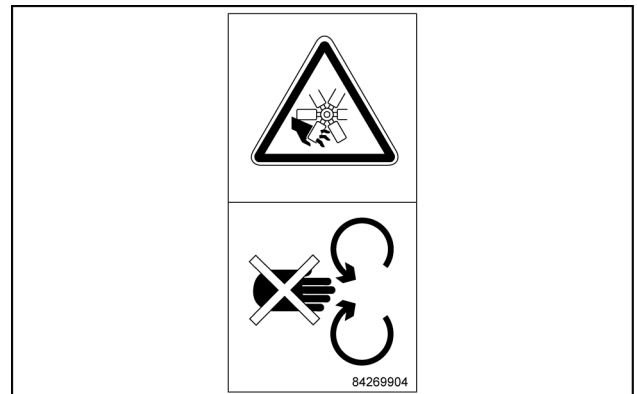
MOIL17TR01136AA 8

Position: applied to the right-hand and left-hand sides of the radiator.
Part Number: 84269904

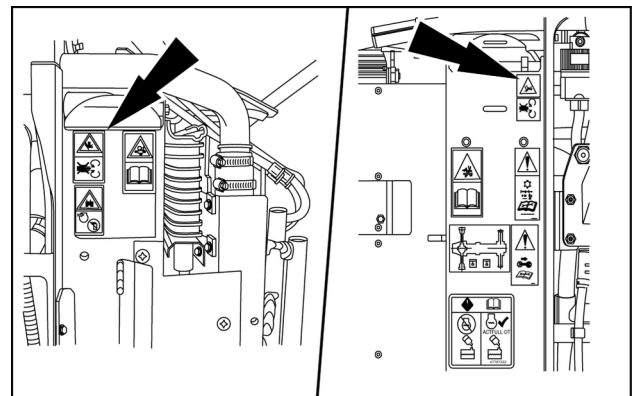
WARNING

Danger. Rotating parts.
When the engine is running, do not open or remove the safety guards.

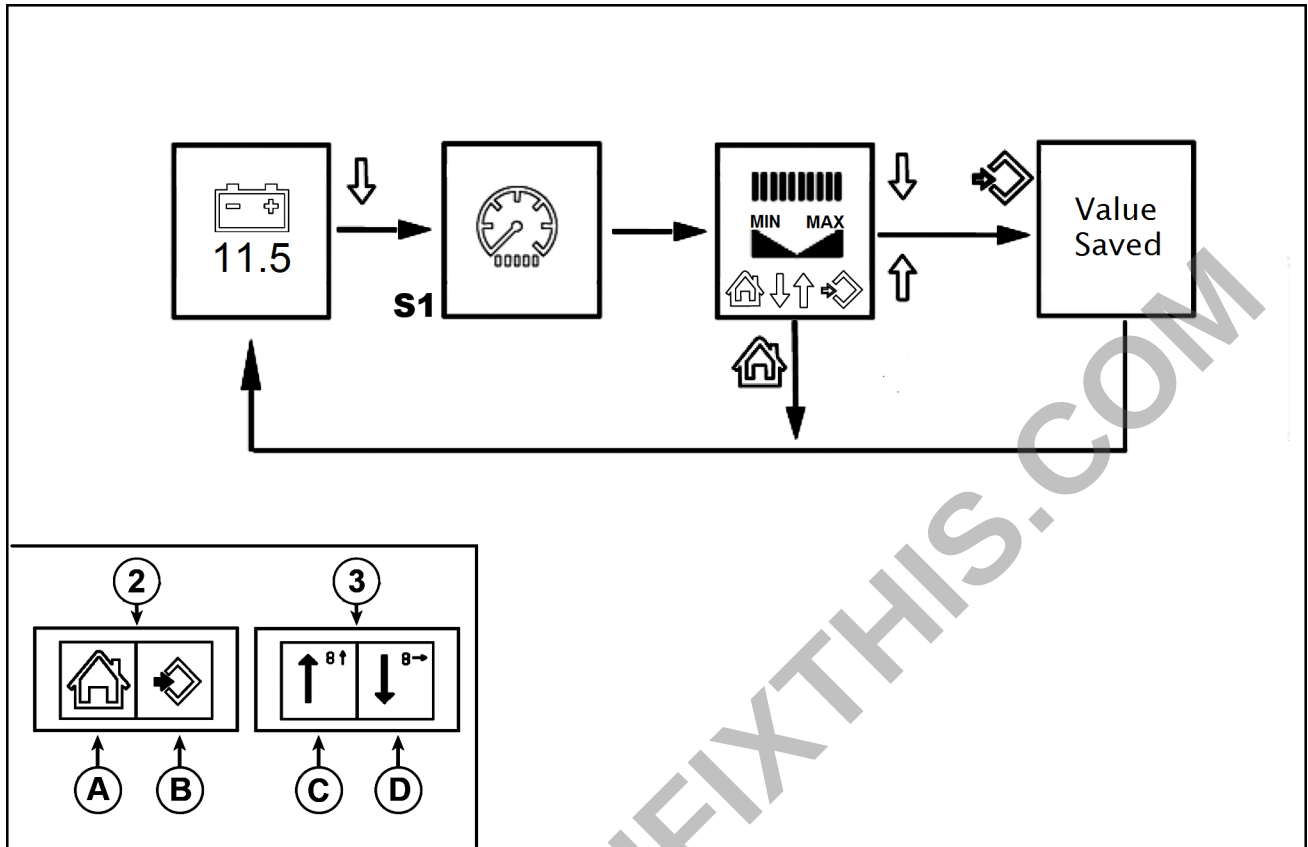
Failure to comply could result in death or serious injury.



84269904 9



MOIL17TR01485AA 10



Central display brightness

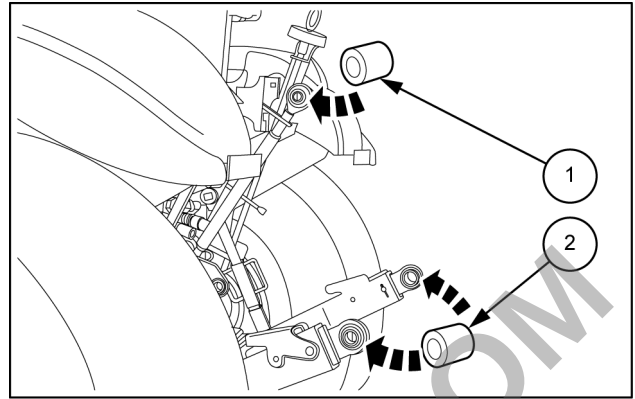
- With the panel powered, press and hold down the switch **(3)** on the symbol **(D)** for 3 seconds.
- The central display will show the screen **(S1)**.
- Release the direction key to pass on to the next screen.
- Press the switch **(3)** on the symbol **(C)** to increase or on the symbol **(D)** to decrease the brightness of the central display until you reach the desired brightness.
- Press the switch **(2)** on the symbol **(B)** to save the setting.
- Two seconds after saving you are automatically returned to the initial condition.

NOTE: If you want to stop the adjustment without saving, press the switch **(2)** on the symbol **(A)** to exit the adjustment.

Conversion from 1st / 2nd category

To allow both 1st and 2nd category equipment to be used, the implement linkage device has:

- A bushing **(1)** with an inside diameter of **19 mm (0.75 in)** for 1st category implements, to be inserted in the spherical bushing at the end of the top link.
- A set of bushings **(2)** with an inside diameter of **22 mm (0.87 in)** for 1st category implements, to be inserted in the spherical bushings at the ends of the lower lift arms.

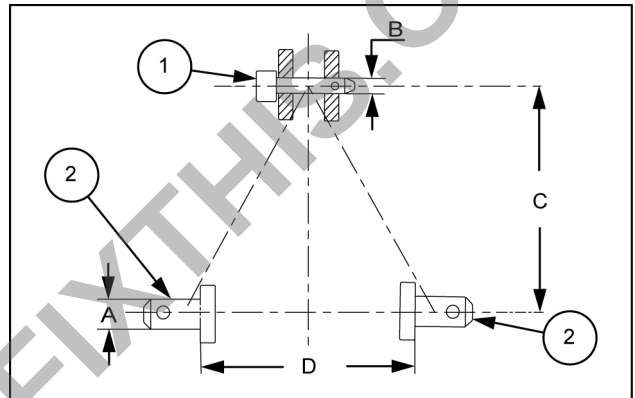


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The three-point linkage system enables the connection of both first and second category implements.

Depending on the category of the implement, it is recommended that you respect the dimensions **(C)** and **(D)** given in the table below in order not to damage the coupler.

1. Top link pin
2. Lower lift arm pins



MOIL13TR02372AB 7

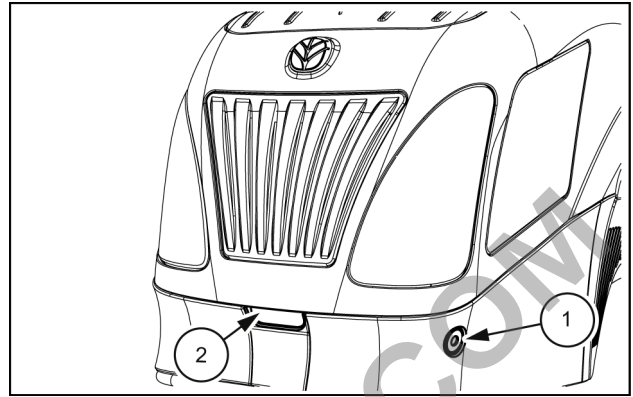
Dimensions	Categories			
	1N	1	2	2N
A	22 mm (0.9 in)	22 mm (0.9 in)	28 mm (1.1 in)	28 mm (1.1 in)
B	19 mm (0.7 in)	19 mm (0.7 in)	25.5 mm (1.0 in)	25.5 mm (1.0 in)
C	360 mm (14.2 in)	460 mm (18.1 in)	610 mm (24.0 in)	610 mm (24.0 in)
D	400 mm (15.7 in)	683 mm (26.9 in)	825 mm (32.5 in)	683 mm (26.9 in)

Opening the hood [36374619 - V2 - 23 July 2012]

To access the engine components and carry out inspection, lubrication and maintenance operations, the bonnet must be opened.

The hood is hinged at the rear to allow easy and safe access to the various engine components. In order to open it, insert the specific tool into the hole **(1)**, push the catch to free the hood and at the same time lift it from the front with the handle **(2)** and let the hood raise up. A strut fitted inside it will keep it open.

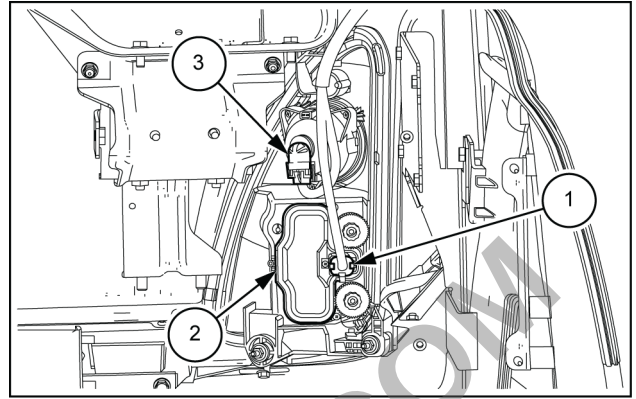
To close the hood, push it fully in. An audible click will signal engagement of the locking catch. Check that the hood is properly closed.



DCAPLT5NE057S7A 1

Main beam/dipped beam headlights:

1. Disconnect the connection (1).
2. Remove the guard (2).
3. Remove the lamp bulb.
4. Replace the bulb with a new one of the same power



DCUTLNEIT043S7A 1

Side work lamp

1. Disconnect the connection (3).
2. Turn the bulb clockwise and remove it.
3. Replace the bulb with a new one of the same power

STORAGE

Storage [102485991 - V2 - 26 November 2015]

⚠ CAUTION

Avoid injury!

Follow ALL of the precautions listed below.

Failure to comply could result in minor or moderate injury.

C0125A

For storage periods of approx. one month: no steps are necessary if the engine oil has not yet exceeded 100 hours of work. Otherwise, proceed as described in the paragraph below.

For storage periods of over one month, drain the oil from the engine while hot, fill up the reservoir with oil (see the topping-up table in the Maintenance chapter) and run the engine for a few minutes at medium rpm.

Remove the external air filter cartridge and clean according to the instructions provided in the maintenance section.

Drain the fuel from the tank and pour in about **8.0 L (2.1 US gal)** of special calibrating fuel. Run the engine for at least 10 minutes to ensure the calibrating fuel distribution throughout the injection system. See the next item before running the engine.

Check the coolant level in the radiator. If the coolant is within 200 hours of the next change, drain, flush and refill the system. Run the engine for one hour to disperse the coolant throughout the system.

Clean the tractor and the bodywork.

Protect the paintwork with silicone wax and use protective lubricants on non-painted metal parts; always keep the tractor in a covered, dry and well-ventilated place.

Check that all the controls are left in neutral (including electrical switches and the parking brake).

Do not leave the key in the starter switch.

Make sure that the operating cylinder rods (hydrostatic steering, lift, etc.) are closed up to protect them.

Remove the battery, clean the cover and smear the terminals and lead ends with petroleum jelly; next, place the battery in a ventilated spot not exposed to temperatures less than **10 °C (50.0 °F)** and away from direct sunlight.

Check the battery charge condition using a voltmeter, as described in the Maintenance chapter.

Fit stands or other suitable supports under the axles to raise the wheels off the ground. While the tractor is in a raised position, we recommend you to deflate the tyres. Otherwise, raise the tractor and check the tyre pressure regularly.

Cover the tractor with a non-plastic non-waterproof tarp.

Cover the exhaust pipe opening.

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