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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 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.*

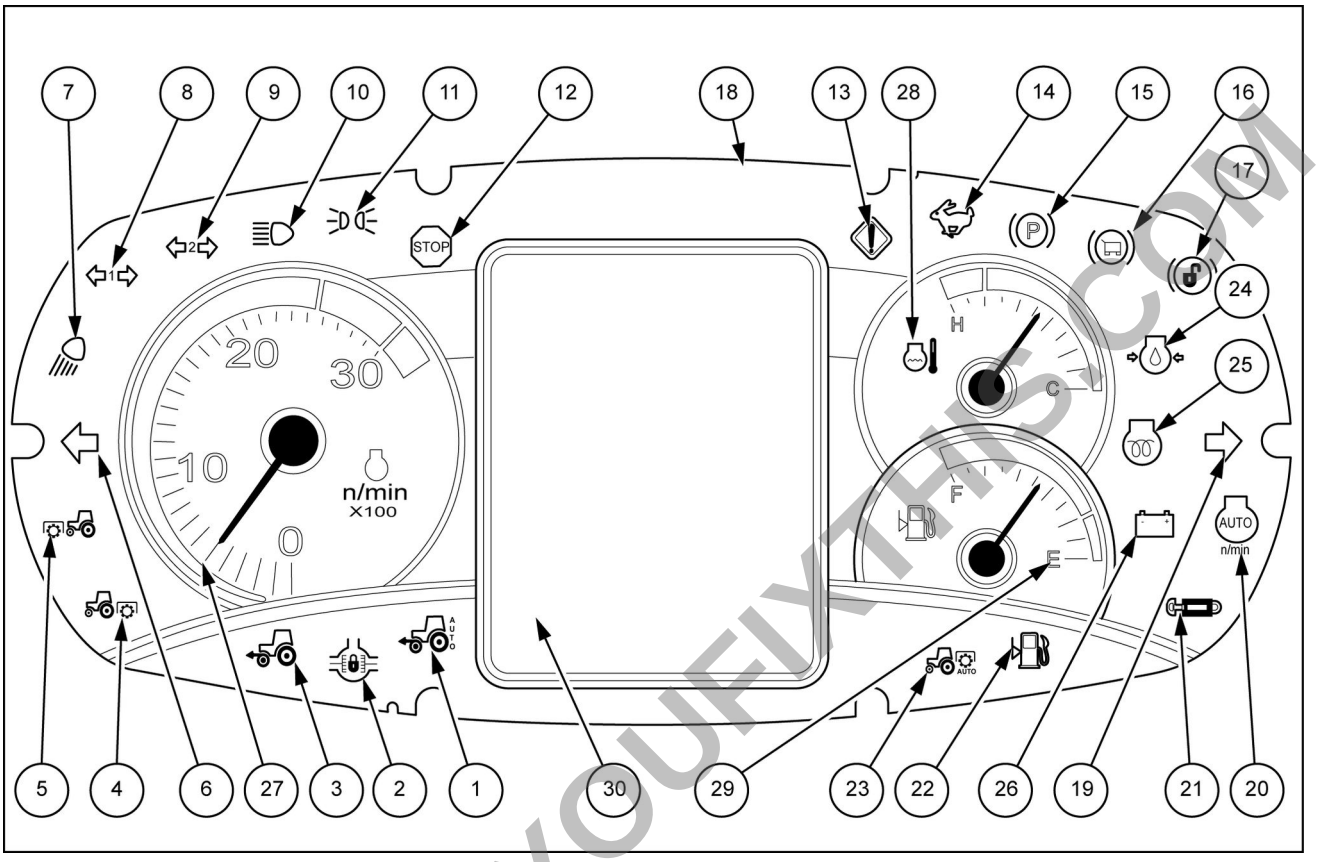
Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

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Forward controls

Instrument cluster



MOIL14TR00458FB 1

The colored warning indicators on the instrument cluster provide information on system operation, or warnings relating to system malfunctions. Illumination of a warning light may be accompanied by an audible alarm.

NOTE: *All indicator and warning lights will illuminate for a short period at 'key- on' as the electrical system carry out a self diagnostic check.*

(1) Warning light not used

(2) Differential lock warning indicator (amber)
This warning light comes on when the differential lock is engaged.

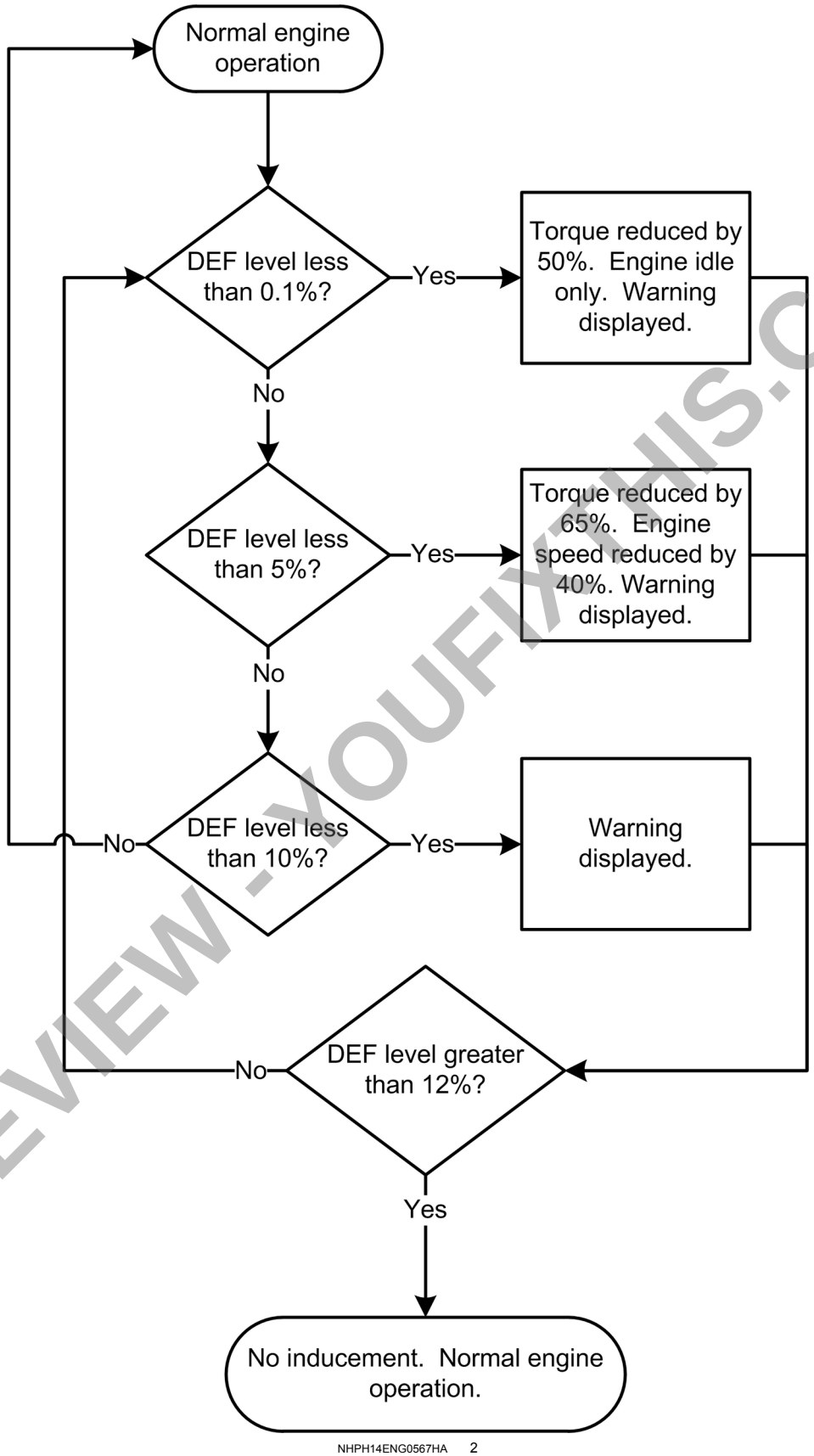
(3) Warning indicator for four-wheel drive (green)
This indicator light will illuminate when the drive to the front wheels is engaged.

(4) Warning indicator for rear power take-off (PTO) (amber)
Illuminates when the engine is running and the rear PTO is engaged.
The indicator, from being steady, starts flashing when the PTO exceeds the maximum permissible number of revolutions.

(5) Warning light not used

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DEF/AdBlue® level faults, failures, and engine power loss levels



NHPH14ENG0567HA 2

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Moving the unit

Machine movement start-up

Running-in procedure

Your tractor will guarantee reliable service if:

- care is taken during the running−in period (first 50 hours of work).
- If the maintenance recommendations in section 7 (Maintenance) are carefully followed.

Vary the type of operation undertaken so that the engine is subjected to heavy as well as light loads during the running-in period.

Before operating the tractor, ensure that you are thoroughly familiar with the location and operation of the controls.

Checks to be carried out before moving the tractor

Before operating the tractor, ensure that you are thoroughly familiar with the location and operation of the controls.

Perform all of the maintenance and lubrication operations on a daily basis, as described in Section 7 of this operator's manual.

After daily maintenance, carry out a visual inspection of the outside of the tractor, paying particular attention to the following points:

- Signs of cracking on the fan belt.
- Accumulation of foreign materials in the engine area.
- Signs of leaks or damaged components connected to pressure tubes, hoses and connectors.
- Damaged tyres.
- Hardware for looseness.
- Accumulation of debris or leakages corresponding to the hydraulic pump and the relative lines.

Always carry out any necessary repairs before using the tractor again

Moving the tractor

Sit correctly in the driver's seat. Fasten the safety belt. Proceed as follows:

1. Depress the brake pedal and disengage the park lock and/or handbrake.
2. Press the transmission clutch pedal and move the gear lever and range lever to the required driving position.
3. Release the brake pedal.
4. Lift the Power shuttle lever and gently position it in the desired travel direction, then slowly release the clutch pedal.
5. Accelerate appropriately to increase the tractor speed.

Stopping the tractor

1. Reduce the engine speed.
2. Press the brake pedal and the clutch pedal.
3. When the tractor is stationary ,
   A. for tractors with Power shuttle and **Dual Command™**
   place shift lever in neutral.
   Press the neutral button on the Power shuttle lever.
   B. for tractors with transmission **Synchro Shuttle™** : position the shift lever and the range lever in neutral.
4. Release the clutch pedal.
5. Engage the park lock and/or apply the hand brake.

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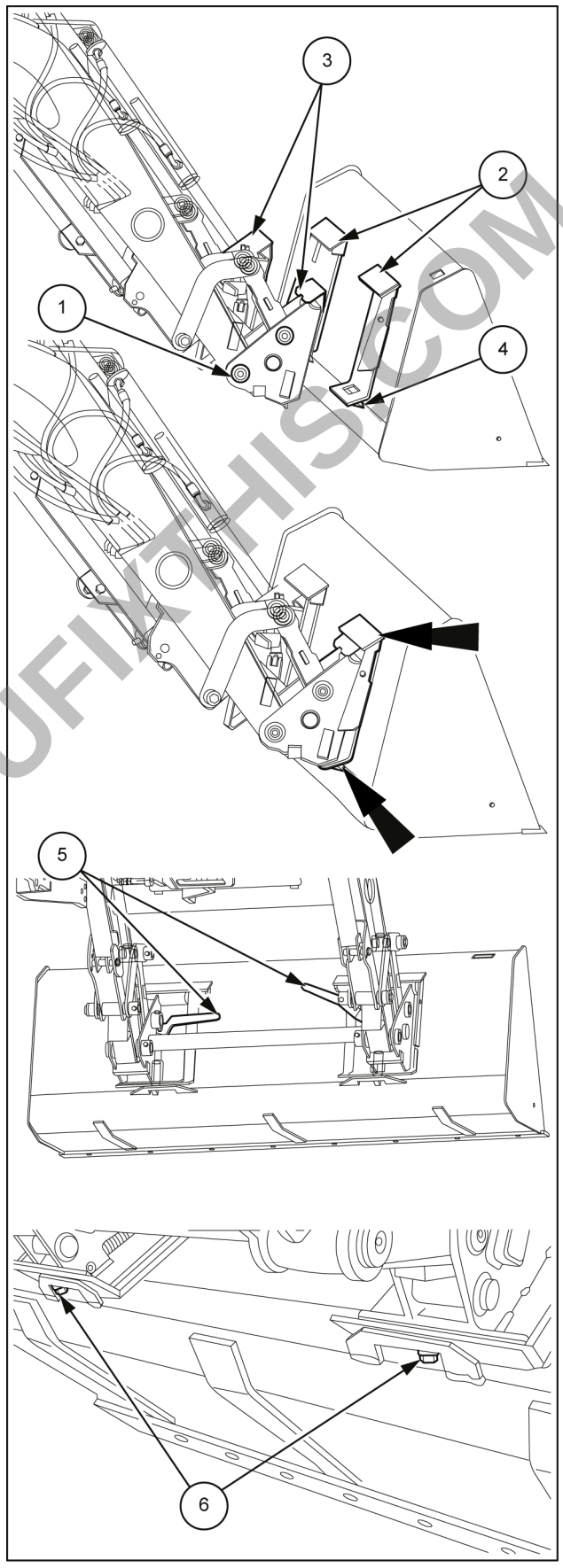
Installing the bucket

Skid Steer Loader (SSL) attachment type

NOTE: *The area around the quick coupling fixtures and the slots on the bucket must be free from debris and material to allow the correct operation of the quick locking mechanism.*

The procedure to be followed for attaching the bucket to the loader is described below.

1. Lower the loader with the quick coupling plate **(1)** tilted slightly forward. Drive the tractor forward slowly. Position the quick couplings **(3)** under the hooks **(2)** on the bucket.
2. Lift the loader slightly to insert the quick couplings **(3)** in the hooks **(2)** on the bucket.
3. With the quick couplings **(3)** of the plate **(1)** inserted in the hooks **(2)** on the bucket, lift the loader to cause the backward movement of the bucket, allowing the plate **(1)** to be inserted in its seat **(4)**.
4. Turn off the engine and engage the parking brake or the park lock.
5. With the plate **(1)** correctly in its seat on the bucket as indicated by the arrows, lower the handles **(5)** into locking position.
6. Before using the loader, check that the locking retainers **(6)** are correctly inserted in the slots in the bucket.
7. When installed an hydraulic equipment to a loader with third function connect the respective hydraulic connections on the cross bar of the loader.



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5 - TRANSPORT OPERATIONS

Road transport

Transporting the machine

⚠ WARNING

Transport hazard!
The machine can slip or fall from a ramp or trailer. Make sure the ramp and trailer are not slippery. Remove all oil, grease, ice, etc. Move the machine on or off the trailer with machine centered on the trailer or ramp.
Failure to comply could result in death or serious injury.

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⚠ WARNING

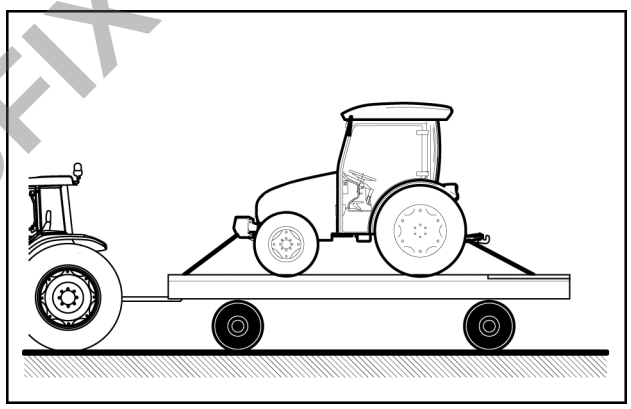
Transport hazard!
Collision of high speed road traffic and slow moving machines can cause death or personal injury. On roads use transport lighting according to local laws. Make sure the Slow Moving Vehicle (SMV) emblem is visible.
Failure to comply could result in death or serious injury.

W0244A

To transport the tractor it is necessary to load it onto a suitable means of transportation; platform of the truck or trailer equipped with a double axle.

Engage the Parking Brake.

Secure the tractor on the vehicle with suitable anchoring belts or chains. Secure the rear of the tractor using the tow bar or tow bar supports and the front of the tractor using the towing hook.



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NOTICE: *Do not hook or connect chains around the front axle drive 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.*

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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Maintenance planning

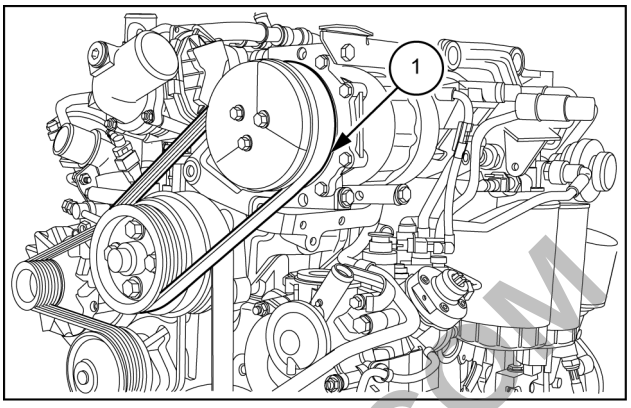
Maintenance chart

Maintenance action	Check	Filling	Cleaning	Drain fluid	Change fluid	Adjust	Test	Replace	Tighten	Grease	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 (If fitted)	x										7-19
Remote control valve reservoir - Check	x										7-19
Radiator - Cleaning			x								7-20
Brake pedals - Check	x										7-20
External lighting - Check	x										7-20
Wheels - Check	x										7-21
Hydraulic steering line - Check	x										7-22
Master clutch release control - Check	x										7-22
Fuel tank - Cleaning - Filler neck filter			x								7-22
Diesel Exhaust Fluid (DEF)/AdBlue® tank - Cleaning - Filler neck filter			x								7-23
AT WARNING MESSAGE DISPLAY											
Air cleaner - Cleaning			x								7-24
Brake fluid reservoir - Filling		x									7-25
Fuel filters - Drain fluid				x							7-25
Diesel Exhaust Fluid (DEF)/AdBlue® tank - Change fluid					x						7-26
Every 10 hours or daily											
Engine - Check - Oil level	x										7-27
Front loader and bucket - Grease										x	7-28
Initial 50 hours											
Maintenance - Tighten									x		7-29
Maintenance - Check	x										7-29
Maintenance - Replace								x			7-29
Maintenance - Cleaning			x								7-30
Maintenance - Test							x				7-30
Maintenance - Grease										x	7-30
Every 50 hours											
Steering cylinder - Grease										x	7-31
Front axle - Grease										x	7-31
Steering knuckle - Grease										x	7-31
Four-Wheel Drive (4WD) axle - Grease										x	7-32
Rear three-point hitch - Grease										x	7-32
Rear hitch - Grease										x	7-32
Every 100 hours											
Air-conditioning condenser - Cleaning			x								7-33
Transmission cooler - Cleaning			x								7-33
Aftercooler - Cleaning			x								7-34
Cab air filters - Cleaning			x								7-34
Cab air filters - Cleaning - Recirculation Filters			x								7-35
Accessory belt - Check - Alternator belt	x										7-35
Compressor drive belt - Check	x										7-35
Front loader and bucket - Check – bolts and nuts	x										7-36

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Inspect the belt **(1)** over its entire length, checking for chafing, cracking, cuts, and general wear.
If in doubt, contact the authorized dealer to install a new belt.



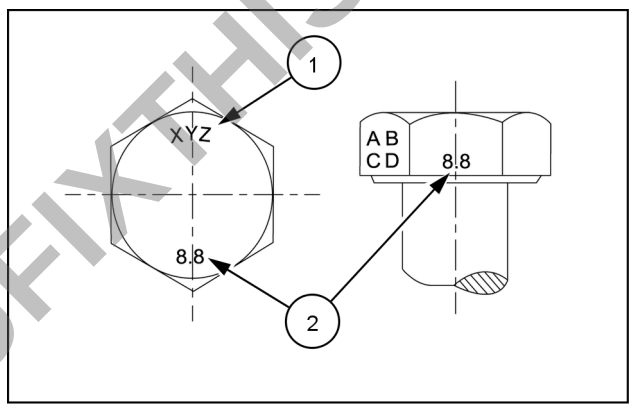
MOIL13TR00308AA 1

Front loader and bucket - Check – bolts and nuts

1. Check all the hardware. Tighten as required in accordance with the following tightening torques.

   Metric hex head screws and carriage bolts, classes 5.6 and up

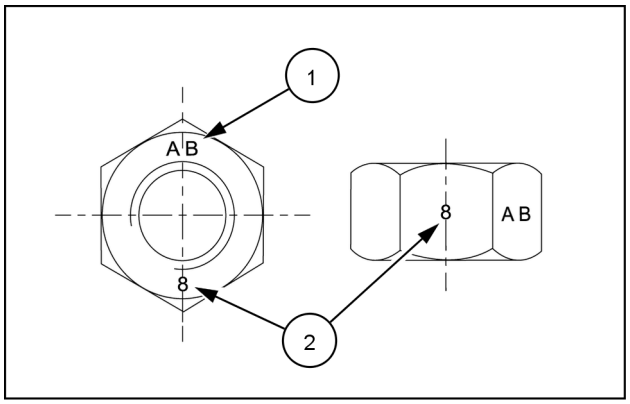
   1. Manufacturer's identification
   2. Property class



MOIL14TR00479AA 1

2. Hex head nuts and lock nuts, classes 0.5 and up

   1. Manufacturer's identification
   2. Property class



MOIL14TR00480AA 2

Torque chart for standard hardware used on the loader boom

Size	Property class	
	8.8	10.9
M6	**12 N·m (9 lb ft)**	**17 N·m (13 lb ft)**
M8	**23 N·m (17 lb ft)**	**33 N·m (24 lb ft)**
M10	**46 N·m (34 lb ft)**	**65 N·m (48 lb ft)**
M12	**80 N·m (59 lb ft)**	**110 N·m (81 lb ft)**

Torque chart for self-locking hardware used on the loader boom

Size	Property class
	8.8
M8	**19 N·m (14 lb ft)**
M10	**38 N·m (28 lb ft)**

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LIST OF ERROR CODES “U” ELECTROHYDRAULIC TRANSMISSIONS

U CODE	DESCRIPTION
17	Seat switch not activated
18	Correct start up procedure not used
19	Oil temperature below **10 °C** (**50.0 °F**), calibration not allowed
20	Vehicle not braked (handbrake released or brake pedals not pressed)
21	Engine is below **1250 RPM** increase throttle
22	Engine is above **1350 RPM** reduce throttle
23	Shuttle lever is in neutral, shift it to forward
24	Engine RPM dropped without clutch insertion
26	Clutch pedal depressed
31	Wheel speed sensed, tractor moving
36	Calibration current too high
37	Calibration current too low
51	Engine speed error
60	Range lever in neutral
61	Gear lever in neutral

NOTE: *In cold or hot transmission oil conditions will still be possible to calibrate the clutches, however this will be signalled to the operator by means of the warnings:*
*CL Cold oil warning, generated when the oil temperature is below **20 °C** (**68.0 °F**)*
*CH Hot oil warning, generated when the oil temperature is above **100 °C** (**212.0 °F**)*

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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

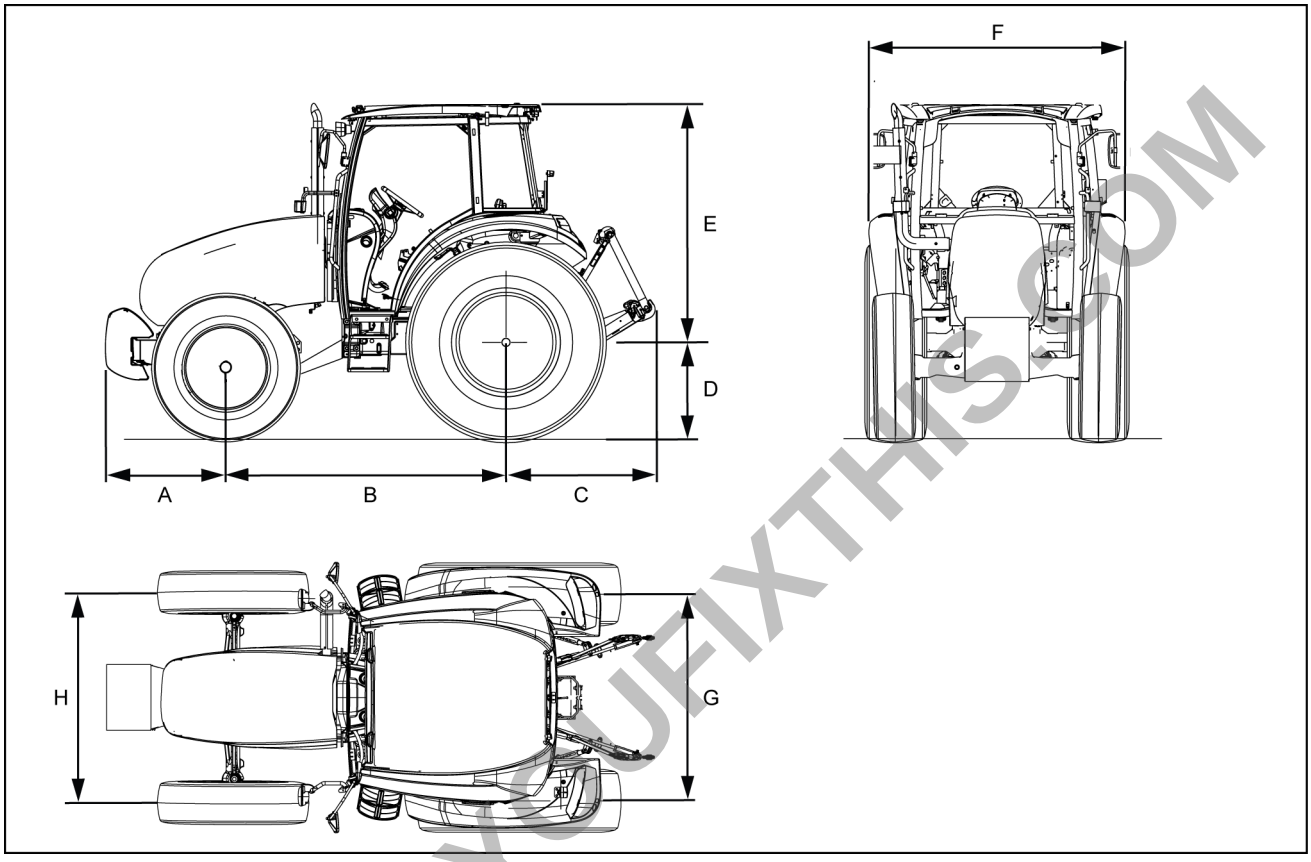
Problem	Possible Cause	Correction
The engine will not start or starts with difficulty	Incorrect starting procedure	See starting procedure
	Fuel level low or empty	Check the fuel level
	Air in fuel system	Bleed fuel system
	Engine oil viscosity not right	Use oil of right viscosity
	Fuel not suitable for 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

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9 - SPECIFICATIONS

Dimensions and weights



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Reference	Size
A	**933 mm** (**36.73 in**)
B ● 2WD	**2343 mm** (**92.24 in**)
B ● 4WD	**2285 mm** (**89.96 in**)
C	**831 - 881 mm** (**32.72 - 34.69 in**)
D	Tire index radius
E	**1819 mm** (**71.61 in**)
F	**1923 mm** (**75.71 in**)
G	**1337 - 1937 mm** (**52.64 - 76.26 in**)
H ● 2WD	**1429 - 2029 mm** (**56.26 - 79.88 in**)
H ● 4WD	**1235 - 1947 mm** (**48.62 - 76.65 in**)

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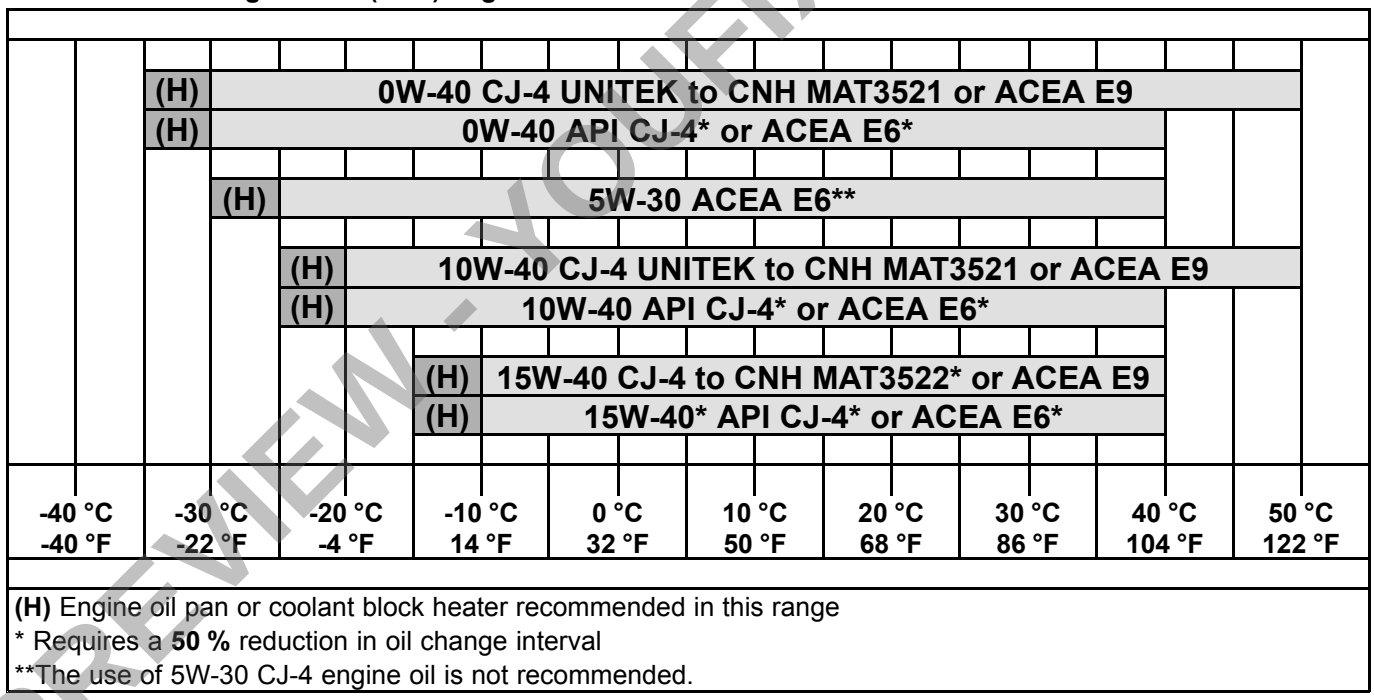
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Capacities

	QUANTITY
System Cooling	Models with cab: **16.0 L** (**4.2 US gal**) Model without cab: **14 L** (**3.7 US gal**)
Windshield washer reservoir	**2 L** (**0.5 US gal**)
Fuel tank	**125.0 L** (**33.0 US gal**)
DEF/AdBlue® tank	**9.6 L** (**2.5 US gal**)
Engine oil	**8.5 L** (**2 US gal**)
Brake control circuit	**0.7 L** (**0.18 US gal**)
Front axle	**4.5 L** (**1.2 US gal**)
Front axle side reduction gears (each)	**1.0 L** (**0.3 US gal**)
Hydraulic circuit — Models with **Synchro Shuttle™** transmission	**48 L** (**12.7 US gal**)
Hydraulic circuit — Models with Power Shuttle trasmission	**54.0 L** (**14.3 US gal**)
Hydraulic circuit — Models with **Dual Command™**trasmission	**57.0 L** (**15.1 US gal**)
Air-conditioning refrigerant	**650 g** (**23 oz**)
Air-conditioning compressor oil	**0.185 L** (**0.05 US gal**)

Recommended engine oil for operating temperature ranges

For machines using Tier 4B (final) engines

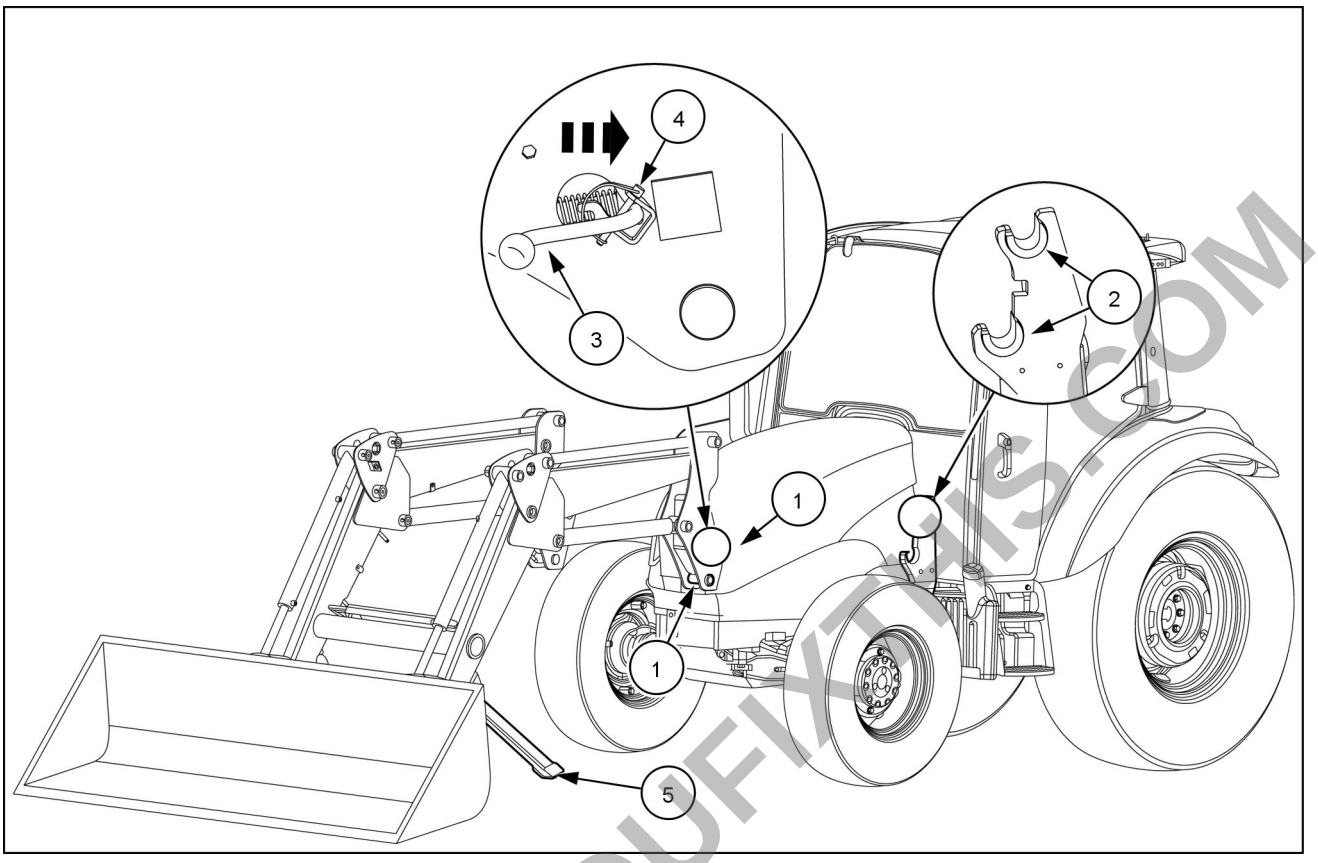


(H) Engine oil pan or coolant block heater recommended in this range
* Requires a **50 %** reduction in oil change interval
**The use of 5W-30 CJ-4 engine oil is not recommended.

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Installation of the front loader



MOIL14TR01084FB 1

NOTICE: *Do not connect the loader to the tractor if the bucket is not installed. Doing so could cause severe damage to the equipment or personal injury*

The procedure to be followed to fit the front loader on the tractor is described below.

1. Position the hydraulic hoses out of the loader frame to avoid damaging them during assembly.
2. Run the tractor engine.
3. Move the tractor slowly toward the loader at a distance such as to be able to connect the quick couplers of the hydraulic hoses.
4. Engage the parking brake or the park lock and turn off the engine.
5. Thoroughly clean the two mating parts.
6. Connect the hydraulic hoses of the loader to the specific quick couplers located on the tractor turret, taking care to connect the male couplers to the socket of the same colour.
7. With a loader with a third function, connect the electrical connector to the corresponding connector on the tractor.

NOTICE: *It is important to engage the hydraulic hoses and, if present, the electrical connectors with the engine switched off.*

8. Start the engine. Move the tractor forward slowly to position the fixed pins **(1)** of the loader over the anchoring slots **(2)** on the tractor support.
9. Lower the loader to insert the fixed pins **(1)** into the slots **(2)**.
10. Engage the parking brake or the park lock and turn off the engine.
11. Get out of the tractor. Position the lever **(3)** as shown in the figure to secure the loader to the tractor.
12. Position the safety pin **(4)** into its seat to lock the lever **(3)** and to prevent the inadvertent release of the lever.

    NOTICE: *Perform these operations on both sides of the loader.*

13. Raise the support legs **(5)**.
14. Raise the arm of the loader and lower the bucket completely in order to eliminate the air in the hydraulic circuit.

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4 OPERATING INSTRUCTIONS

Commissioning the unit

Basic operating safety rules 4-1
Refueling 4-2
Filling the Diesel Exhaust Fluid (DEF)/AdBlue® tank 4-3

Starting the unit

Engine operation 4-4

Stopping the unit

Stopping the engine 4-6

Moving the unit

Machine movement start-up 4-7
Operating in cold temperatures 4-8
Low idle speed management 4-9
Installation of the front loader 4-10
Removing the loader 4-11
Installing the bucket 4-12
Removing the bucket 4-14

5 TRANSPORT OPERATIONS

Road transport

Transporting the machine 5-1
Road transport of the tractor with loader installed 5-2

Recovery transport

Towing the tractor 5-3

6 WORKING OPERATIONS

Transmission

Transmission operation 6-1

Four-Wheel Drive (4WD)

Four-wheel drive with mechanical engagement 6-5
Four-wheel drive with electro-hydraulic control 6-7

Differential lock system

Mechanical differential lock 6-8
Electrohydraulic differential lock 6-9

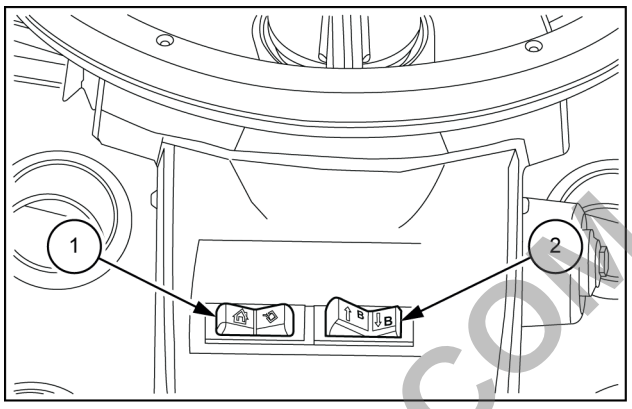
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Front controls

Central display navigation buttons

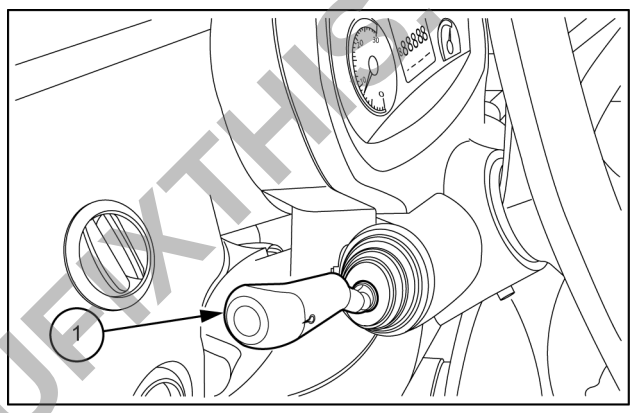
The menus of the central liquid crystal display on the instrument panel are navigated through with the rocker switches **(1)** and **(2)**.



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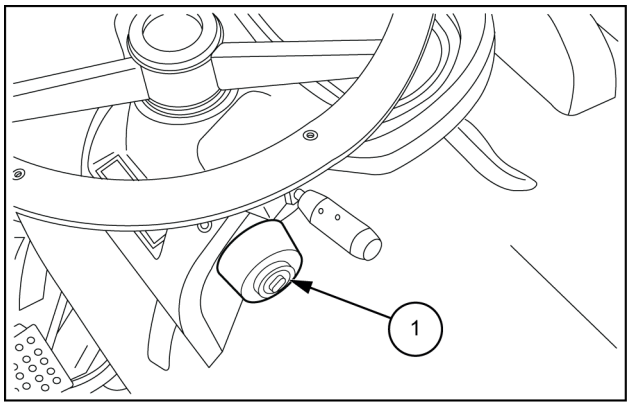
Shuttle lever Synchro Shuttle™ or Power shuttle

The shuttle lever **(1)**, located to the left of the steering wheel, is used to select forward or reverse when a gear ratio is engaged.



DCUTLNEIT030S3A 2

(1) Start switch

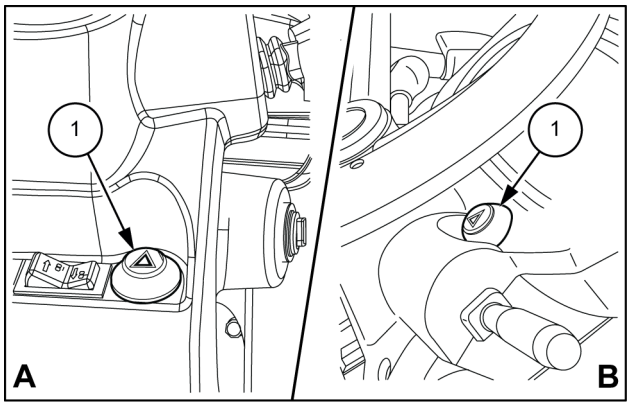


DCUTLBRNE038S3A 3

(1) Hazard warning light switch.
Press switch **(1)** on the red zone to turn on all the direction indicators at the same time; when pressed, the switch also flashes. The indicator will flash at the same time as the turn signals and also the indicator lights on the instrument cluster.

A. Without cab (ROPS)

B. With cab



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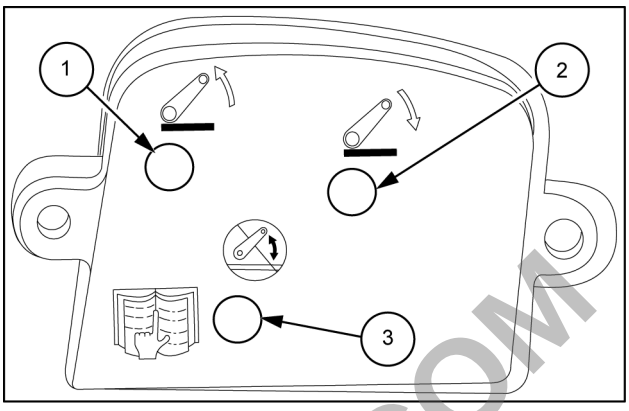
Observe the implement as it pulls through the soil and adjust the draft sensitivity potentiometer **(4)** fig. **12**, until the tendency to raise or lower, due to variations in soil resistance, is satisfactory. Once set, the tractor hydraulic system will automatically adjust implement depth to maintain an even pull (draft load) on the tractor.

The optimum setting will be achieved by observing the movement indicator lights **(1)** and **(2)** fig. **13** . The light **(1)** will illuminate every time the system raises the implement as normal draft corrections occur. The light **(2)** will illuminate as the implement lowers.

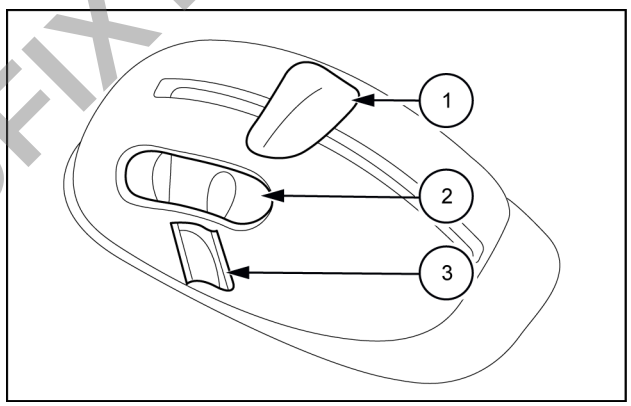
Turn the draft sensitivity potentiometer **(4)** Figure **12** slowly clockwise. The system will respond with smaller, quicker movements as will be seen by both the indicator lights flickering. At this point, turn the potentiometer slightly anti-clockwise until either of the indicator lights flashes once every **2–3 s**, or as required, to suit the soil conditions.
Once the required working conditions have been established there is no need to move the position control lever **(1)** fig. **11** again until the work in hand is completed.

Upon reaching the headland, momentarily depress the top of the raise/lower button **(3)** to quickly lift the implement to the position set by the height limit control potentiometer **(6)** fig **15** . When re-entering the working area, momentarily depress the lower part of the button **(3)** and the implement will descend at the rate set by the drop rate control potentiometer **(5)** and stop when it reaches the depth set by the draft loading wheel **(2)**.
During the raise cycle, momentarily depressing the top of the raise/lower button **(3)** will pause implement lift. Depress the top of the switch again to resume the cycle.
Depressing the lower part of the button during the lowering cycle will also pause implement drop.

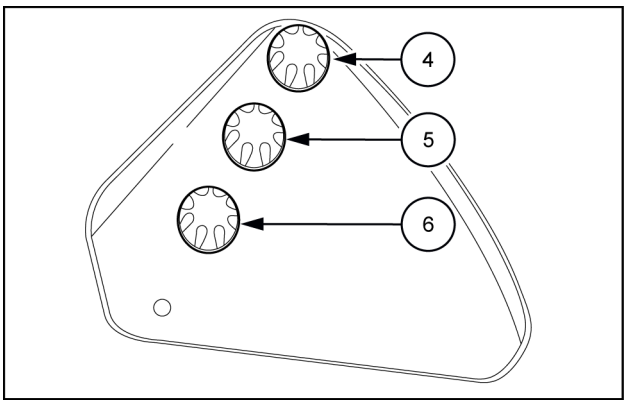
Faster implement penetration may be required, for example, after turning at a narrow headland. Also, some implements are reluctant to penetrate, particularly if the ground is heavy. Press and hold the bottom of the raise/lower button **(3)** and the implement will lower at the rate set by the drop rate control potentiometer **(5)**, until it contacts the ground. The drop rate and the position control settings will then be overridden and the implement will quickly penetrate the ground, rising to the preset working depth when the button **(3)** is released.



DCUTLNEIT018S6A 13



DCUTLNEIT004S6A 14



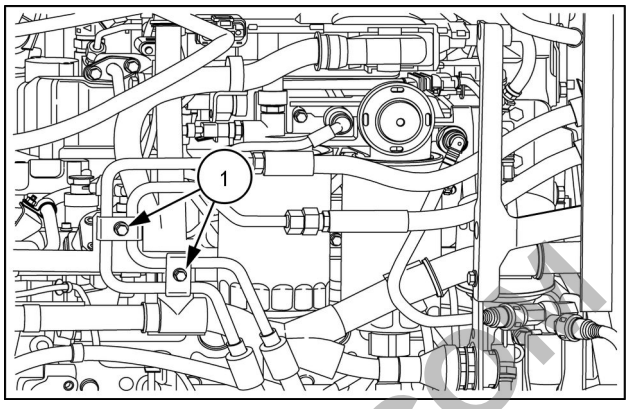
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2WD models

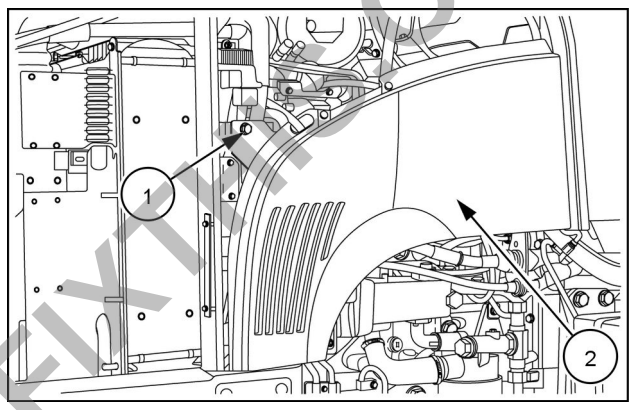
1. Reposition the tube spring clips.
2. Retighten the bolts **(1)**.



MOIL14TR01230AA 6

Replace the side panel.

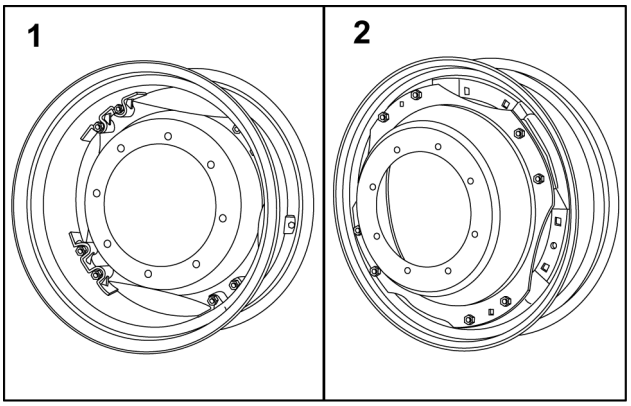
1. Replace the side panel **(2)** to its seat.
2. Retighten the fastener **(1)**.



MOIL15TR02395AA 7

Wheels - Tighten

1. Check the front and rear wheel nuts for tightness using a torque wrench (with a torque multiplier, where necessary). Always make sure that the front and rear wheels are symmetrically aligned in relation to the longitudinal axis of the tractor.



MOIL13TR00011AA 1

Disc to hub nuts

Front and rear wheels	
Front — **M16**	**220 N·m** (**162.3 lb ft**)
Rear — **M18**	**310 N·m** (**228.6 lb ft**)

Disc to rim nuts

Front and rear wheels	
1	**250.0 N·m** (**184.4 lb ft**)
2	

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