

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

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

⚠ 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

8 - TROUBLESHOOTING

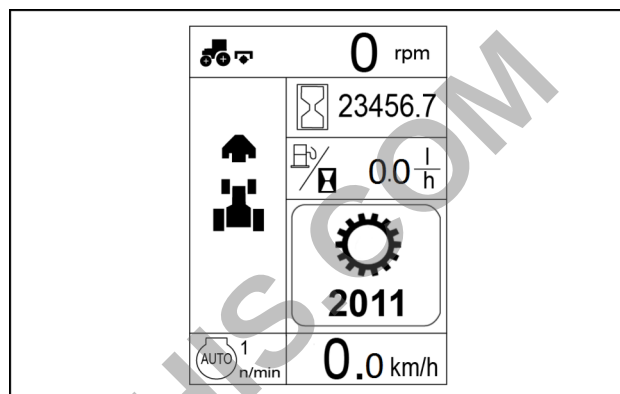
Fault code resolution

Viewing error codes

The tractor's electronic control units are able to detect operating faults or errors occurring in key areas such as the engine, gearbox, electric and hydraulic systems.

Should a malfunction or error occur, the relevant symbol and error code will appear in the display.

This display may be accompanied by the amber or red warning lights on the control panel coming on and by an audible warning, depending on the severity of the fault. Contact your authorised NEW HOLLAND dealer's specialized personnel where possible.



MOIL16TR03105AA 1

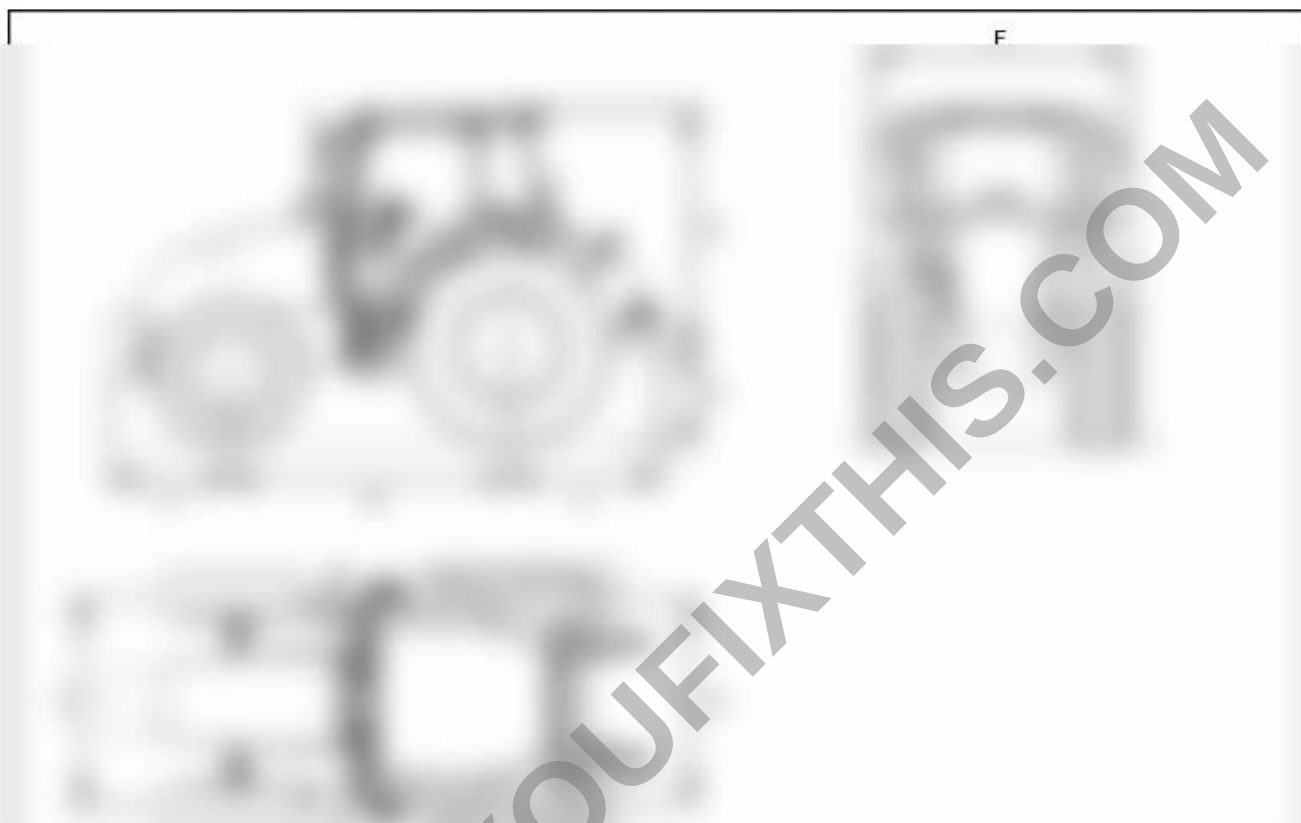
Error code identification

NOTE: should a malfunction occur, the central display on the instrument panel will show a warning symbol and a four-or five-digit error code. To resolve the problem, contact your authorised NEW HOLLAND dealer and report the error code displayed.

Symbol on display	Error code	Area of fault
	From 1001 to 2000	Hydraulic rear powerlift
	From 2001 to 3000	Trasmission
	From 3001 to 4000	Motor
	From 4500 to 5000	Front electronic hydraulic control valves
	From 5001 to 6000	Rear power take off
	From 6001 to 7000	Front-wheel drive
	From 7001 to 8000	Differential locking
	From 8001 to 9000	Front Power Take-Off
	From 14001 to 15000	Electrical or electronic problems

9 - SPECIFICATIONS

General dimensions



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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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4 OPERATING INSTRUCTIONS

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Emissions warranty does not cover

- Repairs arising from storage deterioration, failure to maintain the equipment, negligence, alteration, improper use of the equipment, collision or other accident, vandalism, or other casualty, or operation beyond rated capacity or specification.
- Repairs arising from abuse or neglect, including but not limited to: operation without adequate coolant or lubricants, adjustments to the fuel system outside equipment specifications, over-speeding, improper storage, starting, warm-up, or shutdown practices, incorrect fuel or contaminated fuel, oil or other fluids.
- Normal maintenance services, such as engine tune-ups, engine fuel system cleaning, checks, adjustments, shimming, etc.
- Items replaced due to customer demand.
- Labour charges performed by anyone except a dealer authorized by contract to repair the equipment, unless they qualify under special provisions (i.e. outside labour).
- Any and all travel costs for items such as towing, service calls, or transporting a unit to and from the place where the warranty service is performed.
- Normal maintenance costs, including but not limited to: lubricants, coolants, fluids, fuel, filters, and associated labour. Lubricants, filters, and coolants may qualify for warranty reimbursement if they require replacement as a DIRECT RESULT of a defect in material or workmanship.
- Claims involving the inspection or reconditioning of units after storage or prior use.
- Repairs arising from service performed by agents not approved by NEW HOLLAND.
- Repairs arising from any unauthorized modification to the product or the use of non- NEW HOLLAND parts, implements or attachments.
- Removal, replacement, or installation of non- NEW HOLLAND optional equipment, attachments or components.
- Premiums charged for overtime labour costs or out of shop expenses.
- Economic loss including lost profits, crop loss, equipment rental, or other expense.
- Unauthorized modification or updating machines without a warrantable failure.
- Any and all costs of dealer shop supplies incurred with repairs, including but not limited to: solvents, cleaners, anti-seize lubricants, loctite™, sealant, adhesive, oil-dry, shop towels, etc.
- Failure of the machine, its implements or attachments caused by improper field application or loading.
- Any and all costs for coolant, fuel, or lube (oil) analysis including supplies and lab recommendations.
- Cost associated with cleaning of machine in preparation for servicing.

Safety signs present only on the versions with cab

Position: applied to the rear window.
Part Number: 47948306

WARNING

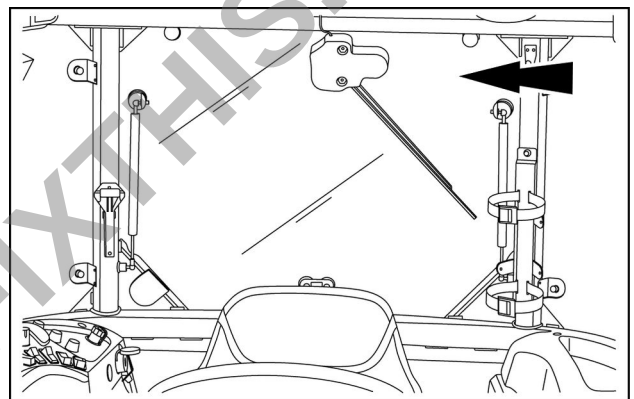
Emergency exit.

The decal identifies the emergency exit on your tractor; use the hammer provided, located on the rear beam to break the rear window glass.

Failure to comply could result in death or serious injury.



47948306 32



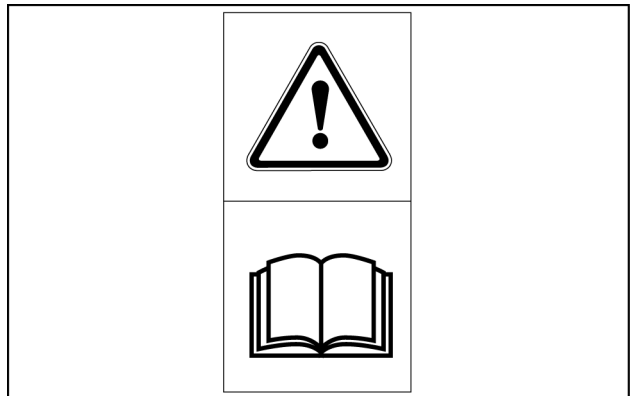
MOIL16TR03513AA 33

Position: applied to the left-hand pillar inside the cab.
Part Number: 84270888

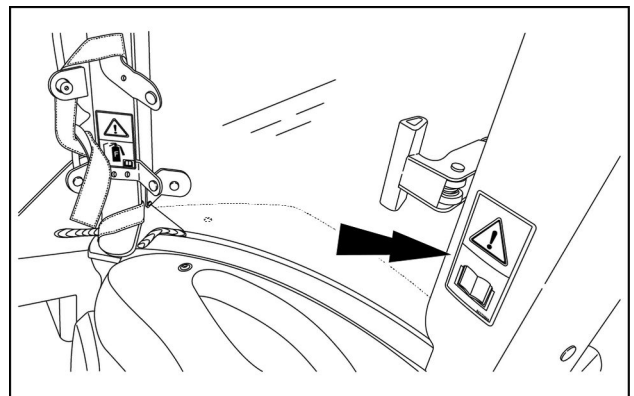
WARNING

Read the operator's manual carefully before operating the machine. Observe the safety rules and instructions during operation.

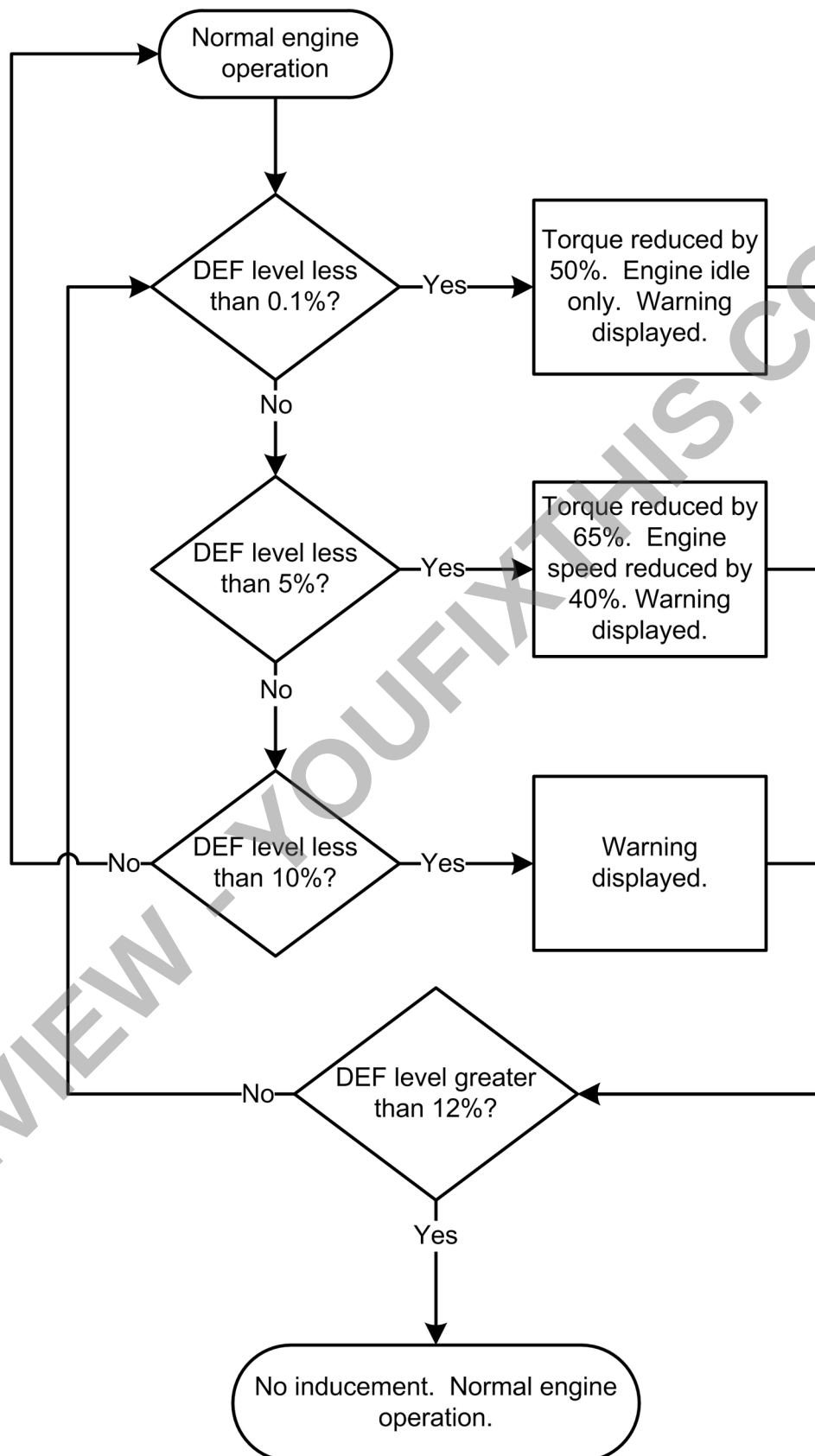
Failure to comply could result in death or serious injury.



84270888 34



MOIL16TR02300AA 35

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

NHPH14ENG0567HA 2

Worked area per hour forecast

It is a forecast of the area that will be worked in one hour if the current rate of work is continued.

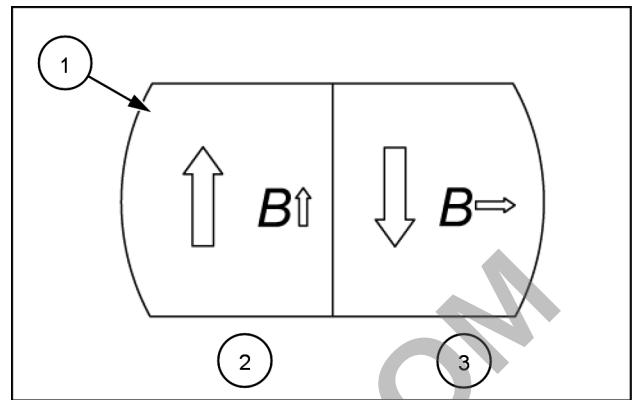
According to the unit of measurement (kilometres or miles) of the worked area forecast value that will be processed in an hour will be displayed in hectares or acres.

To access this function press the switch (1) on the arrow up (2) or arrow down position (3) until the symbol (4) appears.

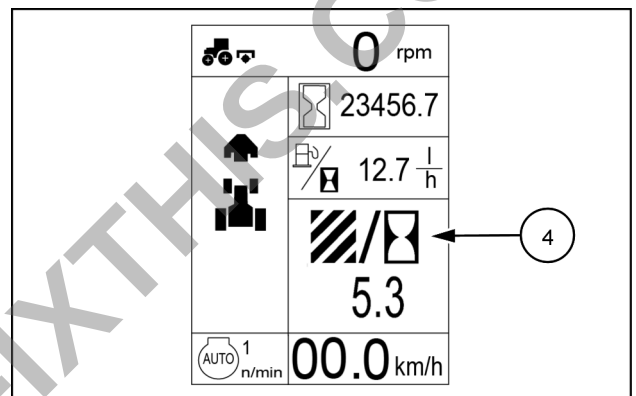
The worked area per hour value is displayed in steps of 0.01 hectares/acres if the surface is less than or equal to 999.9 hectares/acres per hour. For higher values, the steps will be 0.1 hectares/acres per hour.

NOTE: if the total worked area function is not active the displayed value will be zero.

NOTE: If the radar option is not installed, distance calculations are based on axle rotation and are subject to inaccuracies caused by any wheel slip that may occur.



MOIL15TR00581AA 4



MOIL16TR03073AA 5

Area Accumulator

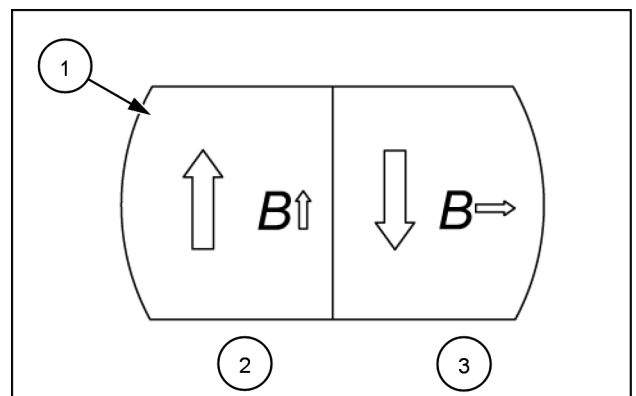
NOTE: before activating this function check that the correct implement width has been set.

According to the unit of measurement selected (kilometres or miles) the total worked area value will be displayed in hectares or acres.

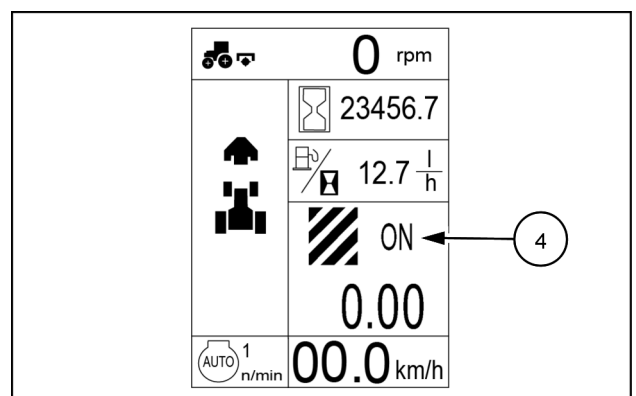
The accumulated are (total area worked) is calculated by the instrument cluster multiplying the implement width by the distance travelled since the function has been activated.

If the operator changes the value of implement width, the total worked area at that moment is stored and the total worked area with the new implement width is summed to the stored one.

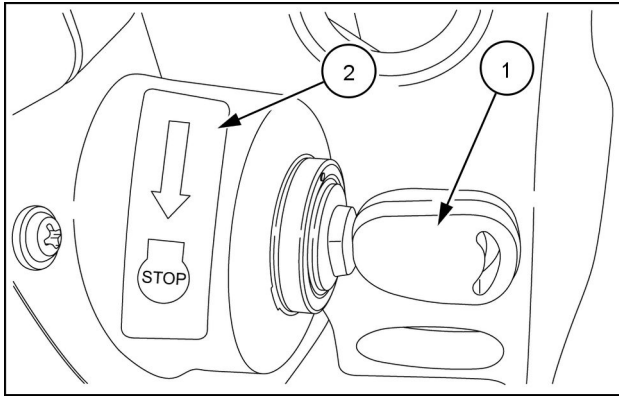
To access this function press the switch (1) on the arrow up (2) or arrow down position (3) until the symbol (4) appears.



MOIL15TR00581AA 6



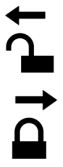
MOIL16TR03074AA 7



MOIL16TR02345AA 1

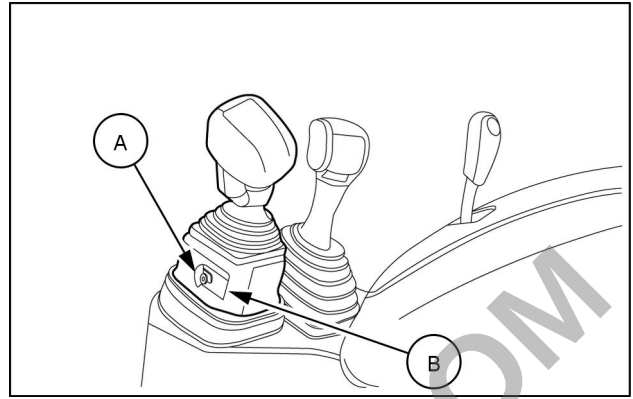
PREVIEW - YOUFIXTHIS.COM

Retaining clip

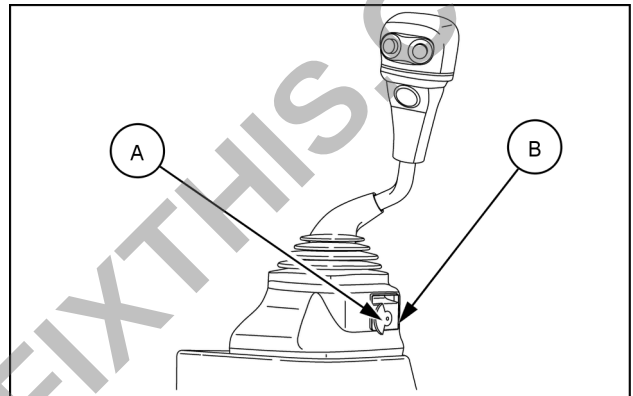


Push the safety catch outwards to position **(A)** in order to use the joystick.

Pull the safety catch inwards to position **(B)** when the joystick is not required.



MOIL13TR02926AA 2



MOIL18TR02692AA 3

Joystick positions



Lever forward = front loader lowering function. In this position the door **(B1)** on the mid-mount control valve is controlled.



Lever backward = front loader raising function. In this position the door **(A1)** on the mid-mount control valve is controlled.



Lever to the right = front loader bucket lowering function. In this position the door **(B2)** on the mid-mount control valve is controlled.



Lever to the left = front loader bucket raising function.

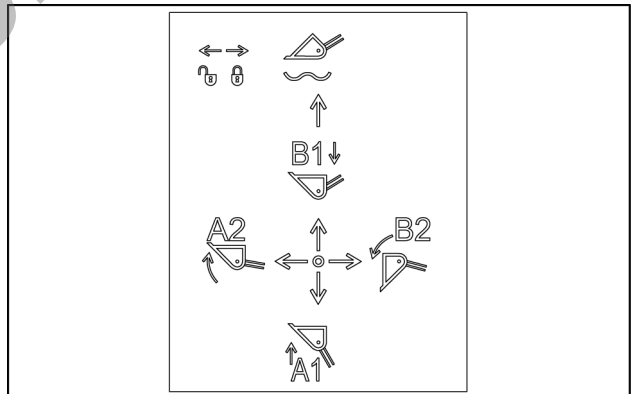
In this position the door **(A2)** on the mid-mount control valve is controlled.



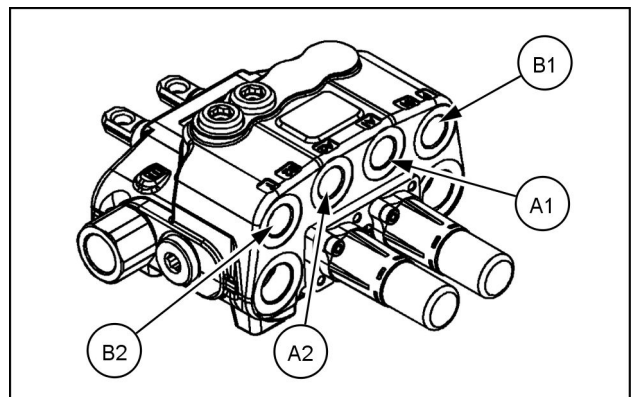
Lever fully forward = float function.

This function allows the connected cylinder to extend or retract freely, allowing the implement that requires this function to follow the ground contour.

- Central rest position.



MOIL16TR03958AA 4



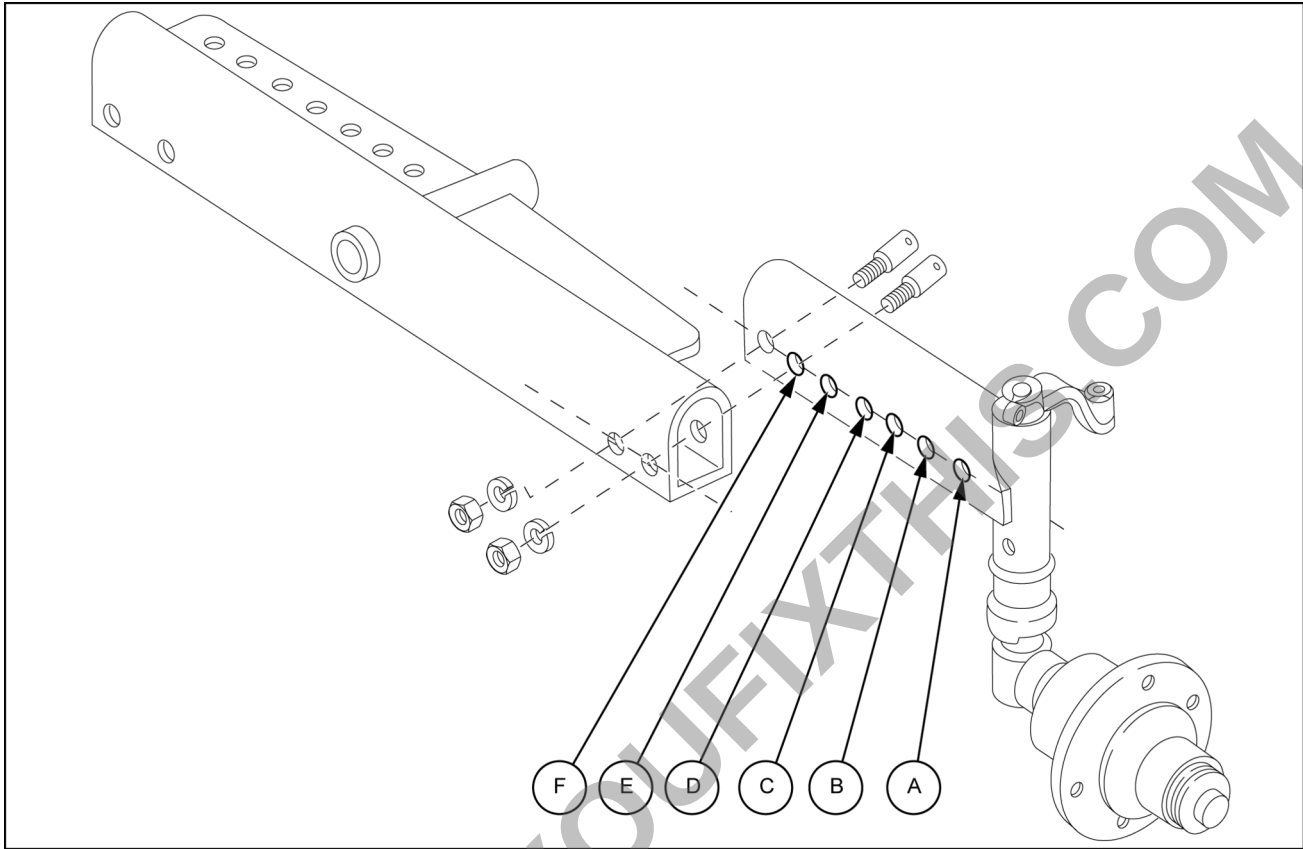
MOIL14TR01323AA 5

Moving the joystick lever diagonally operates two control valves simultaneously. This function is particularly useful when you work with tools such as loaders, fertilizer spreaders, and combined seeders and fertilizer spreaders.

NOTE: Do not hold the joystick in either the lowering or raising position when the cylinder reaches its travel limit. This would cause the system to operate at maximum pressure, which would open the pressure relief valve. The forced

Front tracks diagram

2WD models

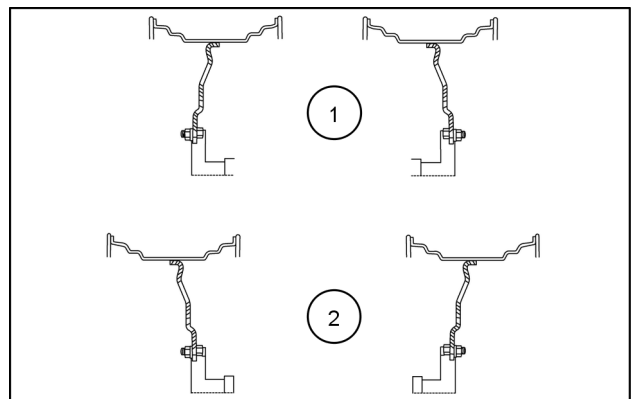


DCUTLINEIT065S6A 1

Fixed rims position 1

Size	A	B	C
7.50 - 16	1450 mm (57 in)	1550 mm (61 in)	1650 mm (65 in)
9.5L - 15	1497 mm (59 in)	1597 mm (63 in)	1697 mm (67 in)
10.00 - 16	1494 mm (59 in)	1594 mm (63 in)	1694 mm (67 in)

Size	D	E	F
7.50 - 16	1750 mm (69 in)	1850 mm (73 in)	1950 mm (77 in)
9.5L - 15	1797 mm (71 in)	1897 mm (75 in)	1997 mm (79 in)
10.00 - 16	1794 mm (71 in)	1894 mm (75 in)	1994 mm (79 in)



MOIL13TR02732AA 2

Transporting the load

1. Position the bucket just below the level of the tractor hood to have the greatest stability and visibility, whether the bucket is full or empty.
2. Use caution when working with the loader on slopes. Carry the load with the bucket in the lowest possible position. This will keep the centers of gravity of the tractor and the loader low, consequently giving the tractor maximum stability.
3. When carrying the load, keep the bucket as low as possible. Even on flat terrain, transport the bucket in the lowest position possible to avoid tipping if a wheel goes into a hole.

NOTICE: Using the loader on a hillside is dangerous. Pay special attention.

Emptying the bucket

4. When in the tipping area, slowly drive the tractor forward and raise the loader at the same time. Bring the loader to the height required to empty the bucket. Be sure to keep the bucket level to avoid spilling material. Empty the bucket. Perform all the actions smoothly and without jerking.

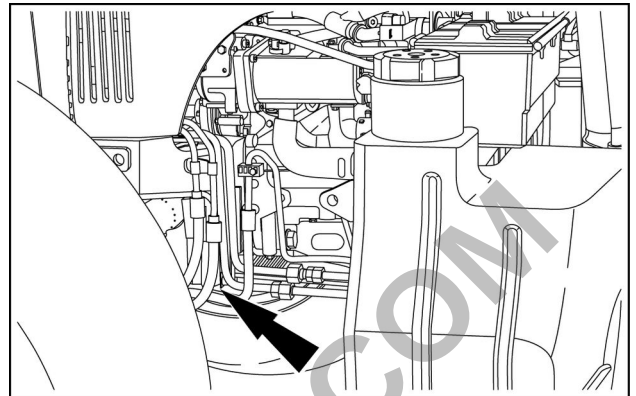


DCUTLNAIT13S10C 6

Hydraulic steering line - Check

Visually inspect the hoses on the vehicle and in particular those of the steering system. Check for cracking and seeping along the surfaces of the hoses and at their fittings.

NOTE: for visually inaccessible hoses, refer to the authorised dealer.



MOIL16TR03414AA 1

External lighting - Check

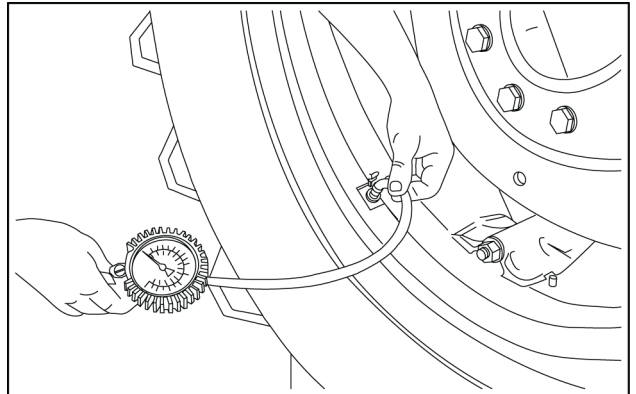
1. Make sure the light beam produced by the various lights is directed correctly to prevent dazzling drivers of on-coming vehicles. The procedure for adjusting them is given in the paragraph on the electrics.

Wheels - Check

Connect a pressure gauge to the tyre valve and check that the pressure is as prescribed.

Check and adjust the front and rear tire pressures. Inspect the tread and sidewalls for damage.

Adjust the tire pressures to suit the load being carried.



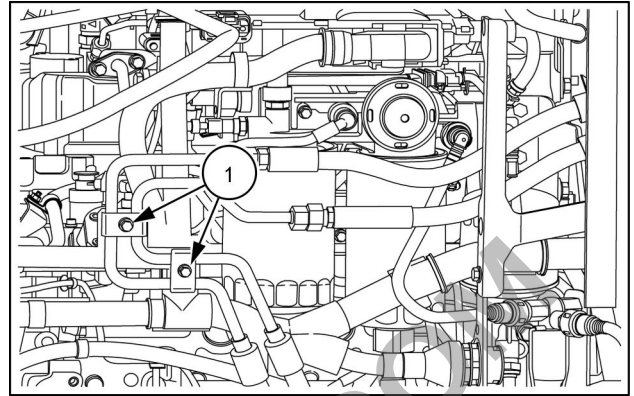
DCUTLNEIT006S7A 1

NOTE: If the tires are ballasted with a calcium chloride/ water solution, use a special tire gauge as the solution will corrode a standard-type gauge. Check pressure with the valve stem at the bottom.

2WD models

20. Reposition the tube spring clips.

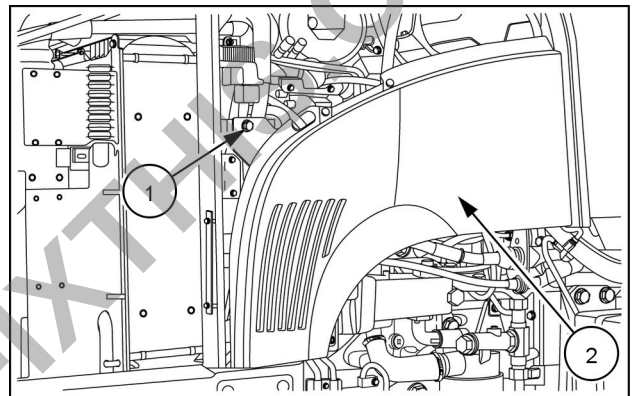
21. Tighten the bolts (1).



MOIL14TR01230AA 6

22. Replace the side panel (2) to its seat.

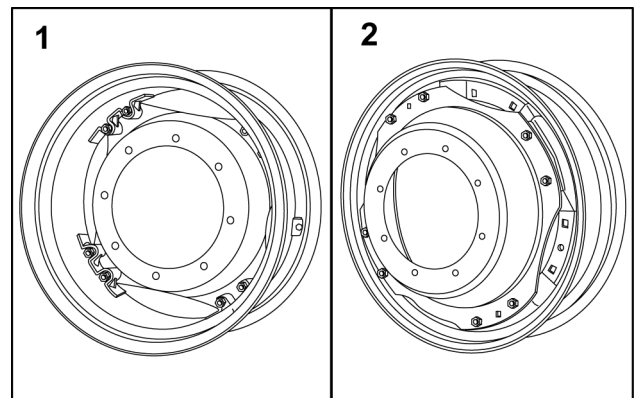
23. Tighten the retainer (1).



MOIL15TR02395AA 7

Wheels - Tighten

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



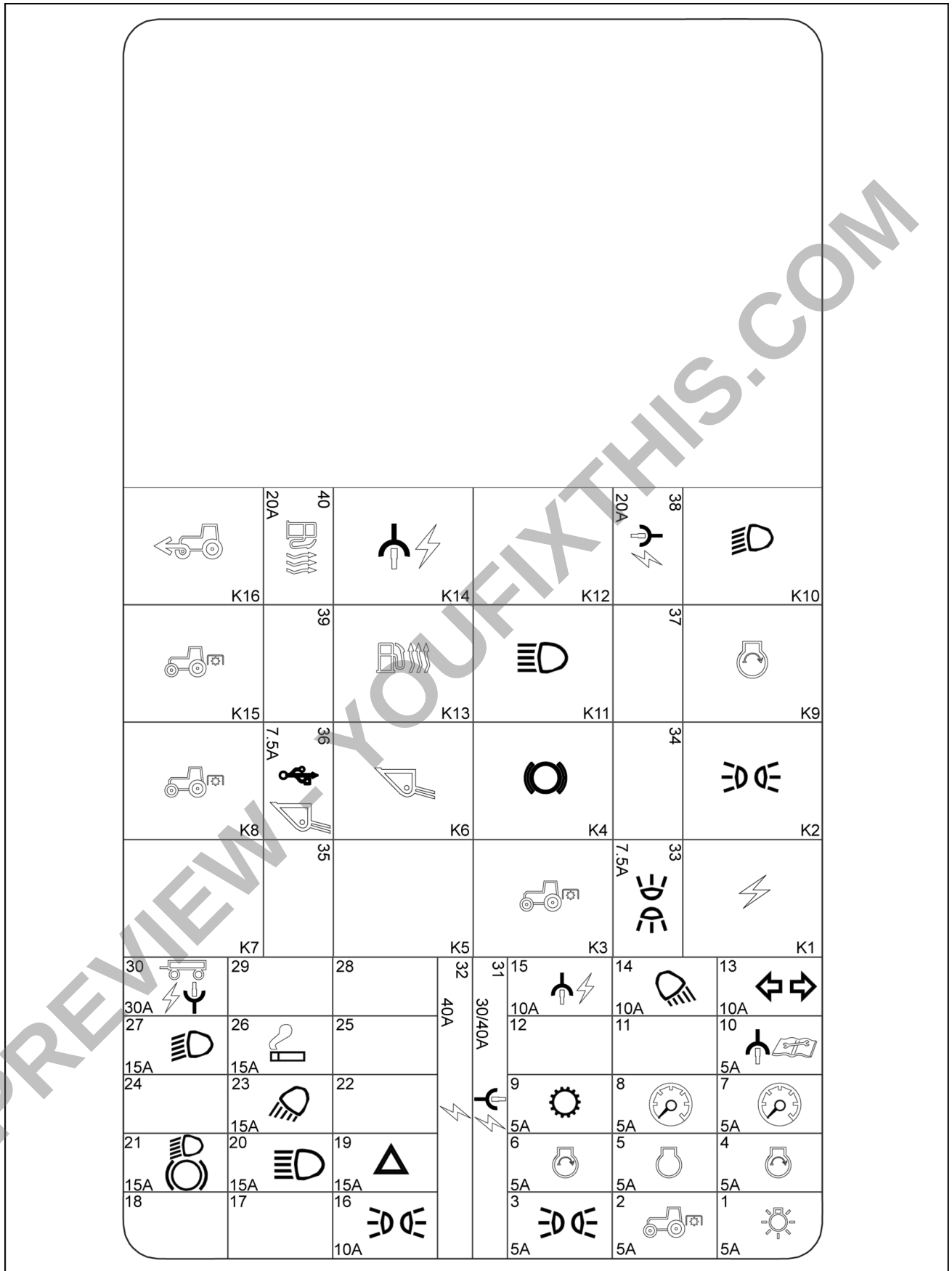
MOIL13TR00011AA 1

Disc to hub nuts

Front and rear wheels	
2WD Front M18	310 N·m (229 lb ft)
4WD Front — M16	215 N·m (159 lb ft)
Rear — M18	310 N·m (229 lb ft)

Disc to rim nuts

Tire disc rim tightening torques	
1	250.0 N·m (184.4 lb ft)
2	



MOIL19TR01203HA 9

Label Name	Component Name	Size of the fuse	Description
F1	F-001	5.0 A	Lights control supply B+
F2	F-002	5.0 A	Rear PTO

Speed table for 12 x 12 gearbox

Drive line Synchro Shuttle™ 30 km/h (18.64 mph) at an engine speed of 2300 RPM

FORWARD DRIVE SPEED

RANGE	GEAR	REAR TIRES			
		INDEX RADIUS			
		625	675	700	750
I	1	0.65 km/h (0.40 mph)	0.70 km/h (0.43 mph)	0.73 km/h (0.45 mph)	0.78 km/h (0.48 mph)
	2	0.99 km/h (0.51 mph)	1.07 km/h (0.66 mph)	1.11 km/h (0.69 mph)	1.19 km/h (0.74 mph)
	3	1.49 km/h (0.93 mph)	1.61 km/h (1.00 mph)	1.67 km/h (1.04 mph)	1.79 km/h (1.11 mph)
	4	2.21 km/h (1.37 mph)	2.39 km/h (1.49 mph)	2.48 km/h (1.54 mph)	2.65 km/h (1.65 mph)
II	1	2.39 km/h (1.49 mph)	2.58 km/h (1.60 mph)	2.68 km/h (1.67 mph)	2.87 km/h (1.78 mph)
	2	3.66 km/h (2.27 mph)	3.95 km/h (2.45 mph)	4.10 km/h (2.55 mph)	4.39 km/h (2.73 mph)
	3	5.49 km/h (3.41 mph)	5.93 km/h (3.68 mph)	6.15 km/h (3.82 mph)	6.59 km/h (4.09 mph)
	4	8.16 km/h (5.07 mph)	8.81 km/h (5.47 mph)	9.14 km/h (5.68 mph)	9.79 km/h (6.08 mph)
III	1	8.82 km/h (5.48 mph)	9.53 km/h (5.92 mph)	9.88 km/h (6.14 mph)	10.59 km/h (6.58 mph)
	2	13.50 km/h (8.39 mph)	14.58 km/h (9.06 mph)	15.12 km/h (9.40 mph)	16.20 km/h (10.07 mph)
	3	20.26 km/h (12.59 mph)	21.88 km/h (13.60 mph)	22.69 km/h (14.10 mph)	24.31 km/h (15.11 mph)
	4	29.06* km/h (18.06* mph)	31.38* km/h (19.50* mph)	32.55* km/h (20.23* mph)	32.70** km/h (20.32 mph)

NOTE: (*) the following speeds were obtained at an engine speed of 2220 RPM.

NOTE: (**) the following speeds were obtained at an engine speed of 2082 RPM.

REVERSE SPEED

RANGE	GEAR	REAR TIRES			
		INDEX RADIUS			
		625	675	700	750
I	1	0.65 km/h (0.40 mph)	0.70 km/h (0.43 mph)	0.72 km/h (0.45 mph)	0.78 km/h (0.48 mph)
	2	0.99 km/h (0.62 mph)	1.07 km/h (0.66 mph)	1.11 km/h (0.69 mph)	1.19 km/h (0.74 mph)
	3	1.48 km/h (0.92 mph)	1.60 km/h (0.99 mph)	1.66 km/h (1.03 mph)	1.78 km/h (1.11 mph)
	4	2.20 km/h (1.37 mph)	2.38 km/h (1.48 mph)	2.47 km/h (1.53 mph)	2.65 km/h (1.65 mph)
II	1	2.38 km/h (1.48 mph)	2.58 km/h (1.60 mph)	2.67 km/h (1.66 mph)	2.86 km/h (1.78 mph)
	2	3.65 km/h (2.27 mph)	3.94 km/h (2.45 mph)	4.09 km/h (2.54 mph)	4.38 km/h (2.72 mph)
	3	5.47 km/h (3.40 mph)	5.91 km/h (3.67 mph)	6.13 km/h (3.81 mph)	6.57 km/h (4.08 mph)
	4	8.14 km/h (5.06 mph)	8.79 km/h (5.46 mph)	9.11 km/h (5.66 mph)	9.76 km/h (6.06 mph)
III	1	8.80 km/h (5.47 mph)	9.50 km/h (5.90 mph)	9.86 km/h (6.13 mph)	10.56 km/h (6.56 mph)
	2	13.46 km/h (6.94 mph)	14.54 km/h (9.03 mph)	15.08 km/h (9.37 mph)	16.15 km/h (10.04 mph)
	3	20.20 km/h (12.55 mph)	21.82 km/h (13.56 mph)	22.63 km/h (14.06 mph)	24.24 km/h (15.06 mph)
	4	29.06* km/h (18.06* mph)	31.39* km/h (19.50* mph)	32.55* km/h (20.23* mph)	32.70** km/h (20.32 mph)

NOTE: (**) the following speeds were obtained at an engine speed of 2227 RPM.

NOTE: (**) the following speeds were obtained at an engine speed of 2088 RPM.

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