

6 - WORKING OPERATIONS

General information

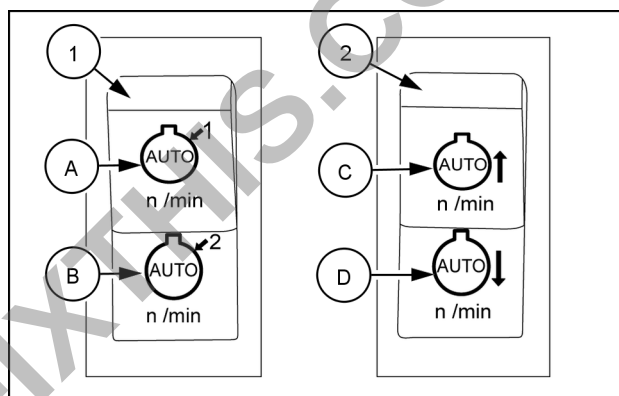
Constant engine speed

This Engine Speed Management (ESM) system is used to pre-set one or two constant engine rpm suited to the work to be carried out.

When enabled, the ESM system constantly monitors any variations in load and in the engine RPM. If the engine load increases and the speed decreases, the ESM system automatically compensates any variations in speed and load by adjusting the engine speed management system in order to ensure a constant speed at the value set.

To set a program, proceed as follows:

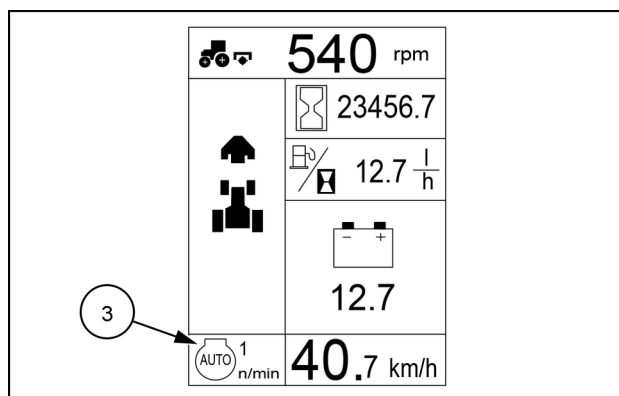
1. Turn the vehicle engine on.
2. Press the switch (1) to position (A) to select the first program.
3. Press the switch (2) to position (C) to increase the engine rpm or to position (D) to decrease the engine rpm and set them to the desired value.
4. The new engine rpm value is set for the first program.
5. If necessary set the second program press the switch (1) to position (B) and repeat the operation described in step three.



MOIL16TR03447AA 1

To activate a program, proceed as follows:

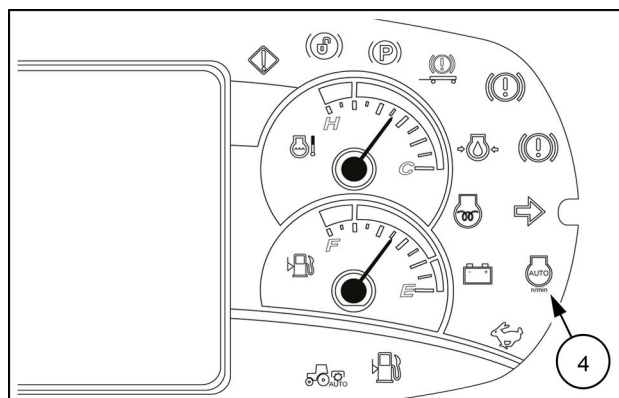
1. With the engine running, press the switch (1) to position (A) to activate the first program.
2. On the central display, the number 1 appears next to the symbol (3) to indicate the program that has been activated.
3. This illuminates the warning indicator (4) on the instrument cluster.
4. If you want to select the second program press the switch (1) to position (B)



MOIL16TR02696AA 2

To deactivate the system, press the switch (1) to the position of the activated program.

NOTE: for the exact location of the two switches (1) and (2) refer to page 3-29.



MOIL16TR03481AA 3

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.

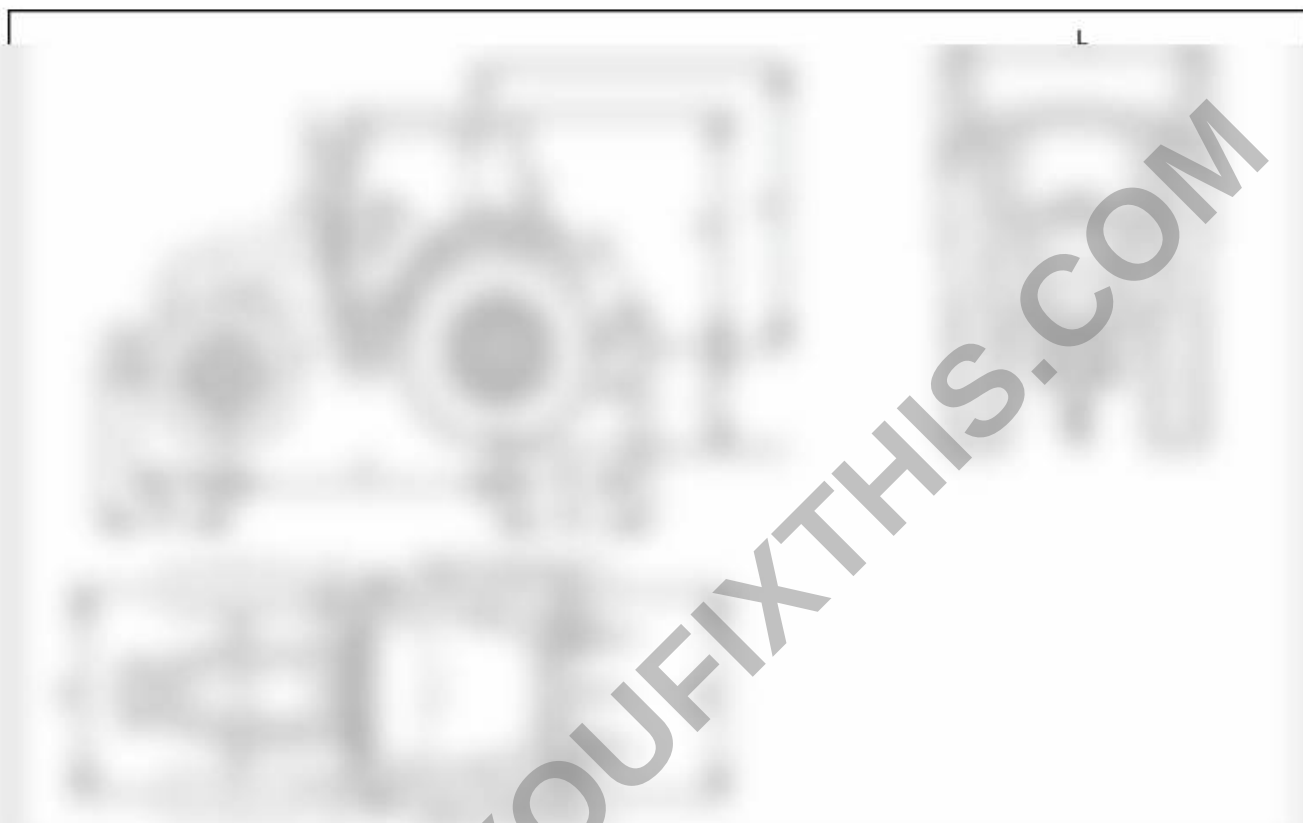
Read and understand the **SAFETY INFORMATION** Section before you perform any maintenance, service, or repairs. Read and understand the specific service procedures for the components you plan to work with before you start servicing the machine.

Failure to comply could result in death or serious injury.

W0138A

9 - SPECIFICATIONS

General dimensions



Blurred on purpose. The manual you buy has this page in full quality.

8 - TROUBLESHOOTING

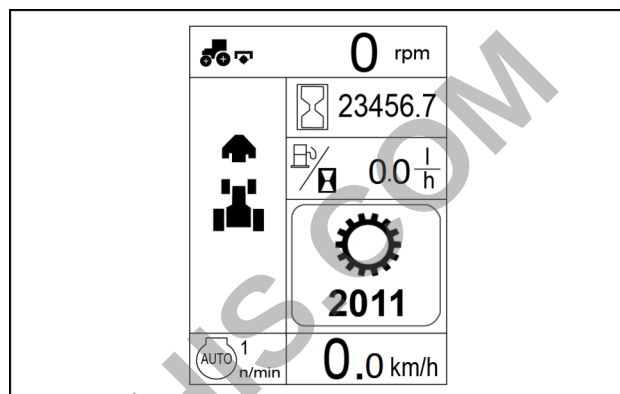
Fault code resolution

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

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.

3 CONTROLS AND INSTRUMENTS

Access to operator's platform

Getting in and out of the machine	3-1
Getting to know the internal parts of the cab	3-2
External rear view mirrors	3-5
Clock adjustment	3-6

Operator's seat

Mechanical suspension seat	3-7
Air seat	3-8
Air suspension seat deluxe	3-9
Safety belt	3-11

Instructional seat

Instructional seat - Localization overview	3-12
--	------

Forward controls

Instrument cluster	3-12
Front controls	3-19

Left-hand side controls

Left side console	3-25
Left side post controls	3-26
Handbrake	3-28

Right-hand side controls

Right-hand console	3-29
Right side post controls	3-36
Hand throttle	3-38
Park lock	3-39
Heating, ventilation or air-conditioning control	3-40

Display

Performance windows	3-42
Programming tractor functions	3-46
Adjusting the dashboard/display brightness	3-46
Calibrating speed	3-49
Calibrating tool width	3-51
Programming maintenance work	3-52
Activating/deactivating buzzer	3-54
Setting units of measurement	3-55
Regenerating the diesel particulate filter (DPF) automatically/manually	3-56
Resetting the oil change counter	3-61
Viewing error codes	3-62

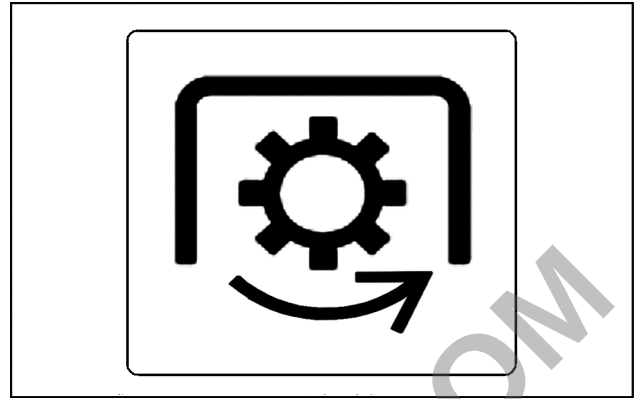
Position: near the front power take-off.
Part Number: 47967751

WARNING

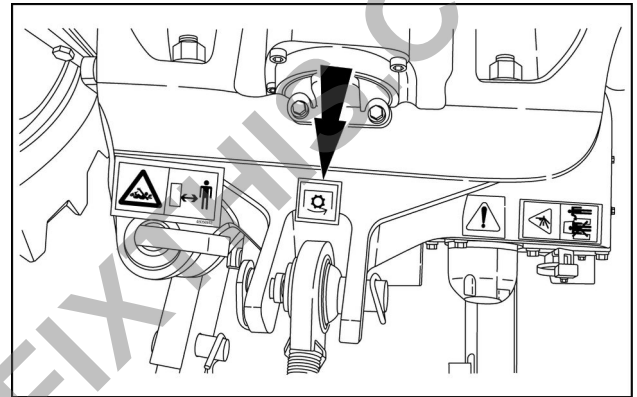
Unexpected movement.

Disengage the Power Take-Off after each use. This prevents an attached implement from moving unintentionally.

Failure to comply could result in death or serious injury.



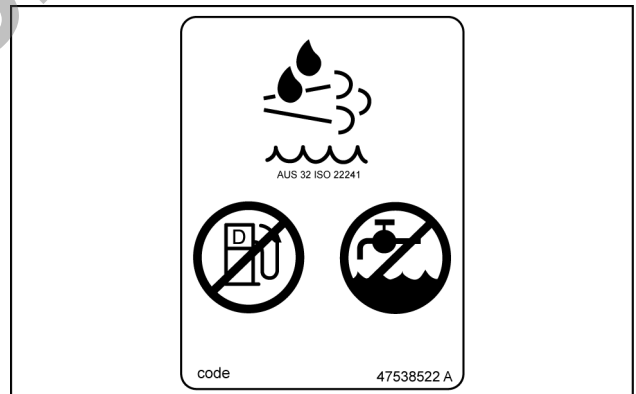
47967751 28



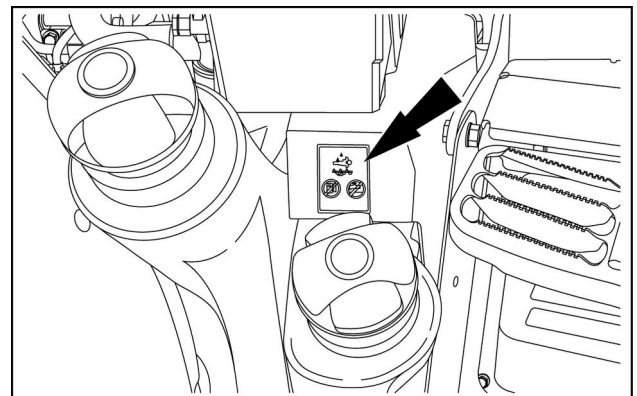
MOIL16TR03545AA 29

Position: on the **DEF/AdBlue®** reservoir filler neck
Part Number: 47538522

NOTICE: Only fill the **DEF/AdBlue®** tank with approved **DEF/AdBlue®** solution. Do not fill with diesel fuel or water. Please refer to the Operator's Manual.



47538522 30



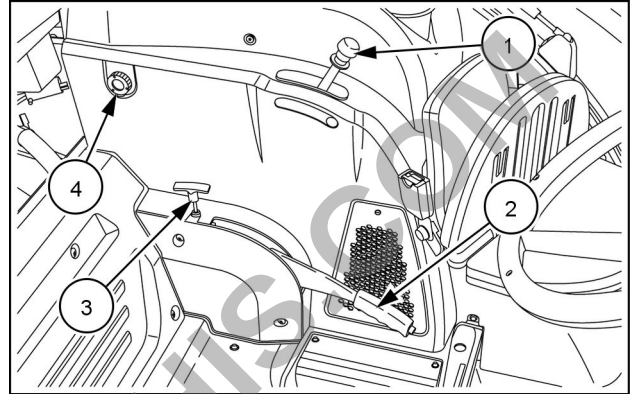
MOIL16TR01719AA 31

Left-hand side controls

Left side console

Version with cab

- (1) Supplementary creeper or splitter control handle.
- (2) Hand brake control lever.
- (3) Power take-off selection handle, independent or synchronized with the gearbox.
- (4) Diagnostic socket

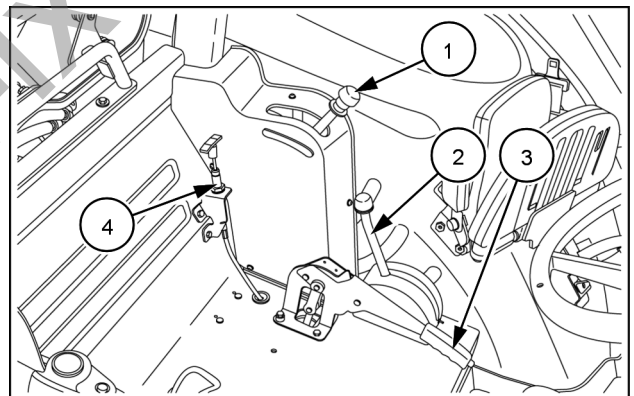


MOIL16TR02483AB 1

Version without cab

Models with **Synchro Shuttle™** and Power Shuttle transmission

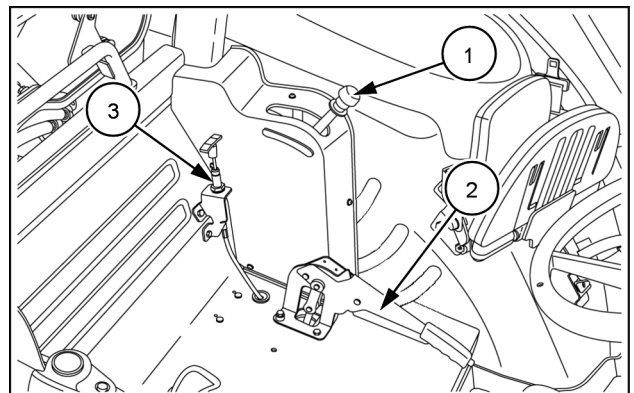
- (1) Supplementary creeper or splitter control handle.
- (2) Lever to engage the rear mechanically-driven power take-off
- (3) Hand brake control lever.
- (4) Power take-off selection handle, independent or synchronized with the gearbox.



MOIL16TR02484AB 2

Models with **Dual Command™** transmission

- (1) Supplementary creeper or splitter control lever.
- (2) Hand brake control lever.
- (3) Power take-off selection handle, independent or synchronized with the gearbox.



MOIL16TR02484AC 3

NOTE: If during manual regeneration the operator modifies the conditions described above, or other conditions connected with the engine are not satisfactory, regeneration is stopped. The stop is signalled to the operator by the display showing the filter symbol accompanied by the indication "FAIL" and a single beep. After 2 seconds, the control unit restores the condition present at the beginning of regeneration "START". In this situation, after restoring the conditions prescribed for the operation, it is necessary to press the switch **(2)** on the side of the symbol **(B)** to restart the regeneration procedure.

PREVIEW - YOUFIXTHIS.COM

Creeper unit control handle

Another creeper unit control handle (1) allows you to select additional underdrive gears in both forward and reverse drive.

The operation must be performed with the engine running, the tractor stationary and the clutch pedal depressed.

To move the lever (1) you need to pull the retaining ring upwards (2).

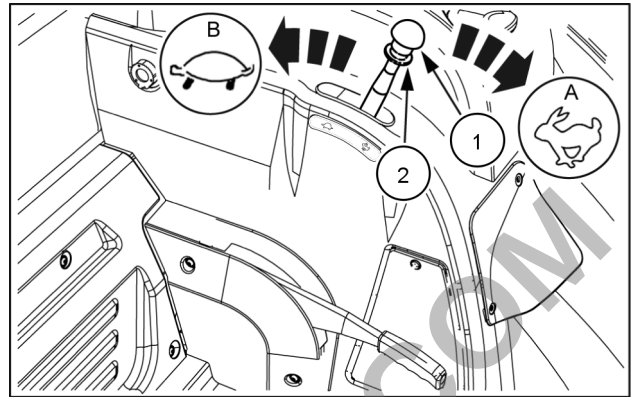


Position (A), creeper disengaged (normal gears)



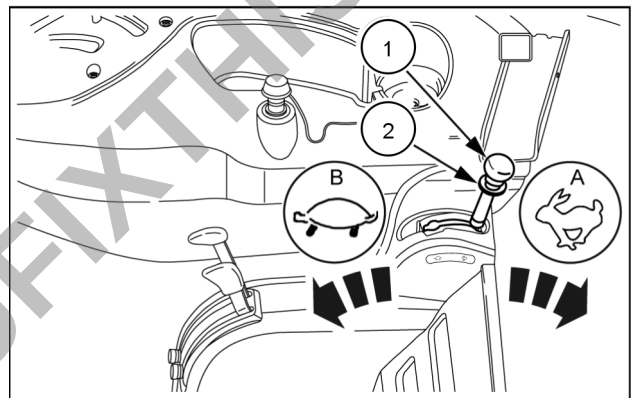
Position (B), creeper engaged (underdrive)

Model with cab



MOIL16TR01951AA 7

Model without cab



MOIL16TR01950AA 8

20 x 20 transmission

The combined use of the following commands:

- shift lever
- gear range selection lever
- shuttle lever
- Creeper lever (1)

The creeper unit lever in the underdrive position inhibits operation of the third range.

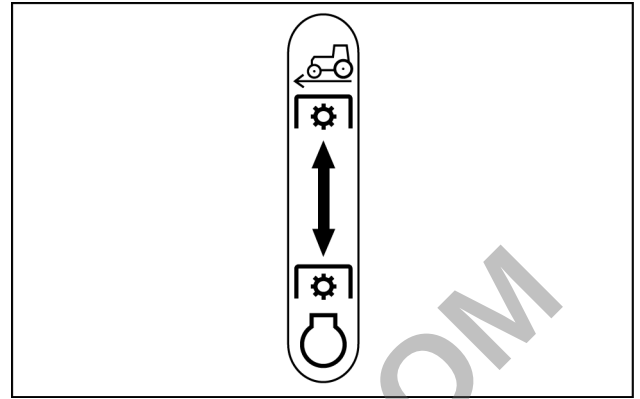
NOTE: the label shown in figure 4, at the side of the lever, indicates the two selectable positions.



Ground speed power take-off



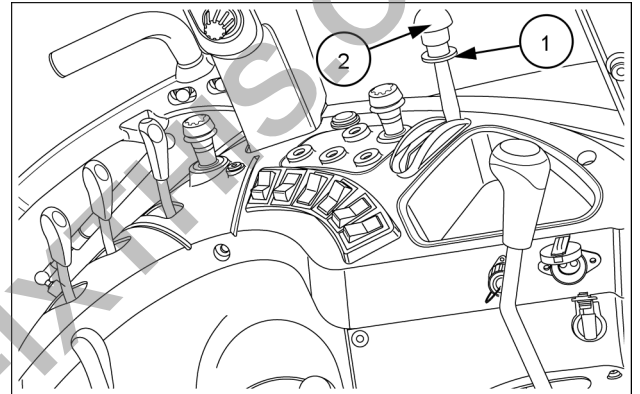
Independent power take-off



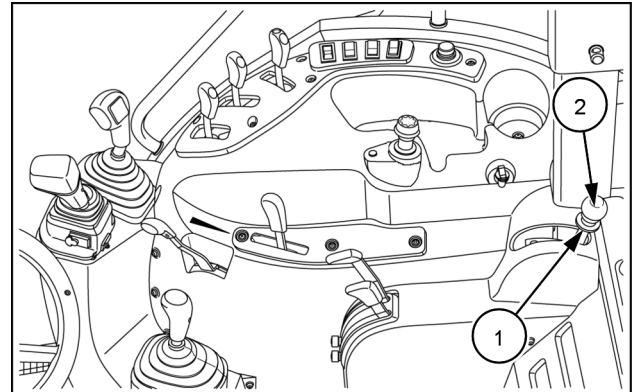
MOIL16TR03064AA 4

For models with Power Shuttle transmission

4. Pull the collar **(1)** upwards and move the selector lever **(2)** onto the position corresponding to the desired speed.



MOIL16TR03089AA 5



MOIL16TR03090AA 6

Three-point hitch front - Coupling fitted on the axle

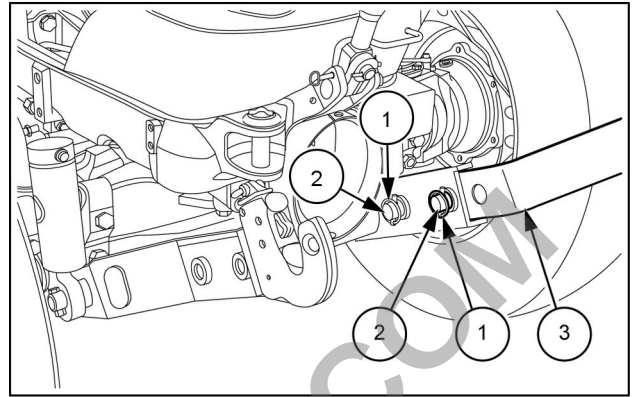
Lower link arm adjustment

The horizontal arms can be adjusted in length. Proceed as follow:

- Withdraw the cotter pins (1) and remove the pins (2).
- Withdraw the horizontal arm (3) to the desired length so that it is aligned with the holes in the outer section, then insert the pins (2) removed previously and the relevant cotter pins (1).

NOTE: Make sure that both pins (2) are inserted in the holes in the arm (3).

- Make the same adjustment on both front horizontal arms.



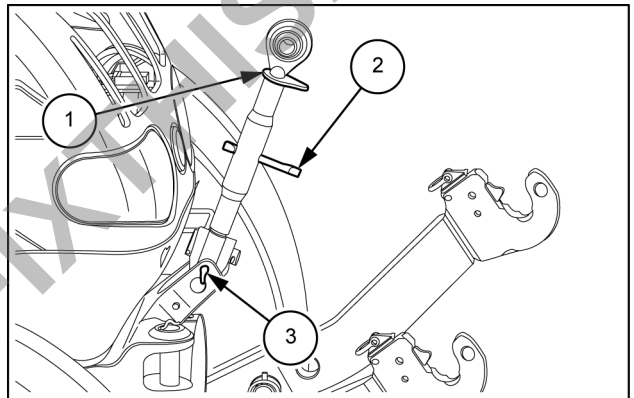
MOIL13TR02653AB 1

Top link adjustment

The top link has a threaded centre section, which can be turned to shorten or lengthen the top link as required.

Release the latch (1). Use the hand grip (2) to turn the threaded centre section to adjust the length.

After adjustment, engage the latch (1) to prevent the threaded centre section from turning during work.



MOIL13TR02654AB 2

Lift capacity

At ball ends	1794 kg (3955 lb)
at 610 mm (24 in) in front of ball ends	1152 kg (2540 lb)

Transport position

The top link and lower links should be placed in the transport position when not in use.

NOTE: If travelling on roads without implements attached to the front lift arms, the lower arms must be kept fully raised and folded in the transport position.

Raise the top link so that it is vertical and secure it by inserting the lock pin (3) as shown in the figure 2 .

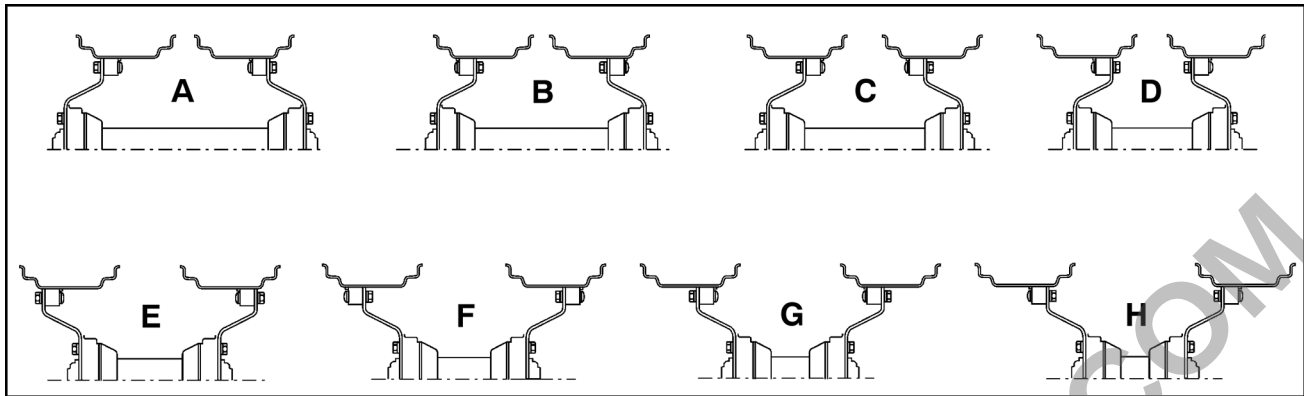
NOTE: Secure the lock pin (3) with the special cotter pin.

NOTE: when using the front 3-point hitch fit the lock pin (3) into the rear hole .

Shorten the length of the horizontal arms to their minimum, as described above, then use the controls in the cab to lift the arms to their greatest height.

NOTE: Before using the tractor, make sure that all the pins are secured in place with the special cotter pins.

4WD models

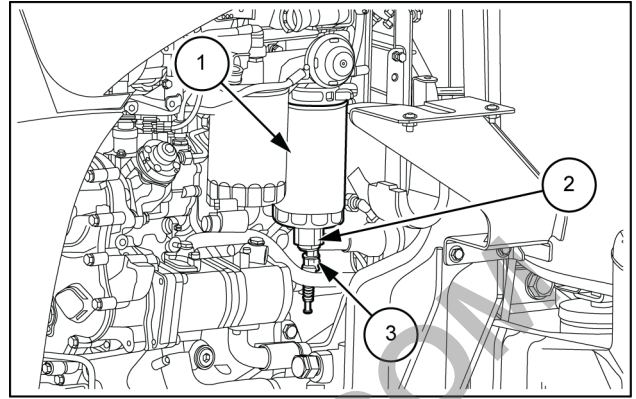


DCUTDNEGB100S3F 2

Tires with adjustable rims

Size	A	B	C	D	E	F	G	H
11.2 R 24 280/85 R 24	1240 mm (48.82 in)	1342 mm (52.83 in)	1444 mm (56.85 in)	1546 mm (60.87 in)	1640 mm (64.57 in)	1742 mm (68.58 in)	1844 mm (72.60 in)	1946 mm (76.61 in)
11.2 R 28	-	-	1444 mm (56.85 in)	1548 mm (60.94 in)	1640 mm (64.57 in)	1744 mm (68.66 in)	1844 mm (72.60 in)	1948 mm (76.69 in)
13.6 R 24 380/70 R 24	-	-	-	1546 mm (60.87 in)	1640 mm (64.57 in)	1742 mm (68.58 in)	1844 mm (72.60 in)	1946 mm (76.61 in)
320/70 R 24	-	-	-	1545 mm (60.83 in)	1640 mm (64.57 in)	1742 mm (68.58 in)	1844 mm (72.60 in)	1946 mm (76.61 in)
9.5 R 28 250/85 R 28	1320 mm (52 in)	1424 mm (56 in)	1364 mm (54 in)	1468 mm (58 in)	1720 mm (68 in)	1824 mm (72 in)	1764 mm (69 in)	1868 mm (74 in)
360/70 R20	1380 mm (54 in)	1492 mm (59 in)	1432 mm (56 in)	1544 mm (61 in)	1640 mm (65 in)	1752 mm (69 in)	1692 mm (67 in)	1804 mm (71 in)
380/75 R20	1380 mm (54 in)	1492 mm (59 in)	1432 mm (56 in)	1544 mm (61 in)	1640 mm (65 in)	1752 mm (69 in)	1692 mm (67 in)	1804 mm (71 in)
380/70 R20	1380 mm (54 in)	1492 mm (59 in)	1432 mm (56 in)	1544 mm (61 in)	1640 mm (65 in)	1752 mm (69 in)	1692 mm (67 in)	1804 mm (71 in)
405/70 R20	1380 mm (54 in)	1492 mm (59 in)	1432 mm (56 in)	1544 mm (61 in)	1640 mm (65 in)	1752 mm (69 in)	1692 mm (67 in)	1804 mm (71 in)
440/65 R20	1372 mm (54 in)	1484 mm (58 in)	1440 mm (57 in)	1552 mm (61 in)	1632 mm (64 in)	1744 mm (69 in)	1700 mm (67 in)	1812 mm (71 in)
14.9 L R20	1380 mm (54 in)	1492 mm (59 in)	1432 mm (56 in)	1544 mm (61 in)	1640 mm (65 in)	1752 mm (69 in)	1692 mm (67 in)	1804 mm (71 in)
360/80 R20	1380 mm (54 in)	1492 mm (59 in)	1432 mm (56 in)	1544 mm (61 in)	1640 mm (65 in)	1752 mm (69 in)	1692 mm (67 in)	1804 mm (71 in)
360/80 R24	1240 mm (49 in)	1342 mm (53 in)	1444 mm (57 in)	1546 mm (61 in)	1640 mm (65 in)	1752 mm (69 in)	1844 mm (73 in)	1946 mm (77 in)
280/85 R28	1240 mm (49 in)	1344 mm (53 in)	1444 mm (57 in)	1548 mm (61 in)	1640 mm (65 in)	1744 mm (69 in)	1844 mm (73 in)	1948 mm (77 in)
405/70 R24	1240 mm (49 in)	1342 mm (53 in)	1444 mm (57 in)	1546 mm (61 in)	1640 mm (65 in)	1752 mm (69 in)	1844 mm (73 in)	1946 mm (77 in)
9.5 R28 - 250/85 R28	1320 mm (52 in)	1424 mm (56 in)	1364 mm (54 in)	1468 mm (58 in)	1720 mm (68 in)	1824 mm (72 in)	1764 mm (69 in)	1868 mm (74 in)
8.3 R32 - 210/95 R32	1304 mm (51 in)	1344 mm (53 in)	1444 mm (57 in)	1484 mm (58 in)	1704 mm (67 in)	1744 mm (69 in)	1844 mm (73 in)	1844 mm (73 in)

- Place a container under the filter (1).
- Remove the sensor wire (3) from the drain plug.
- Open the drain plug (2) on the separator filter by loosening the knob.
- Allow contaminated fuel to drain until only clean fuel runs out.
- Close the drain plug and replace the sensor wire.
- Dispose of the drained fuel appropriately.



DCUTLNEIT010S7A 1

NOTE: Dispose of the drained fuel according to current regulations.

Engine - Replace - Oil and filter

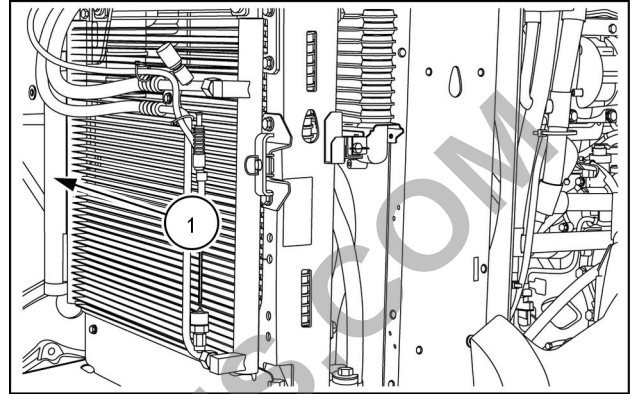


When the following signal appears on the instrument cluster control unit display, it means there is a decline in engine oil. Replace the engine oil or the filter as described on page 7-36.

Every two years

Receiver-dryer - Replace

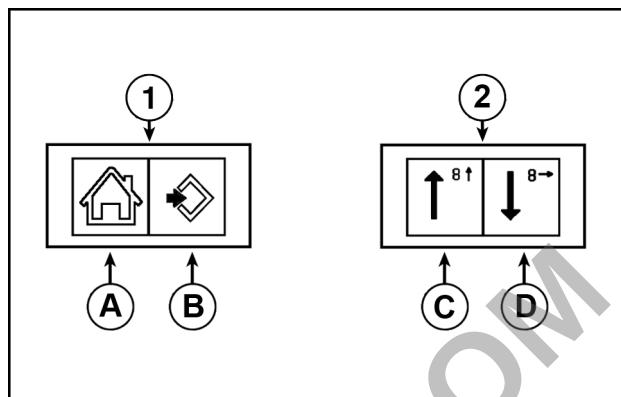
1. Every two years to go to an authorized dealer for replacement of the drier filter **(1)** of the air conditioning system.



MOIL15TR01177AA 1

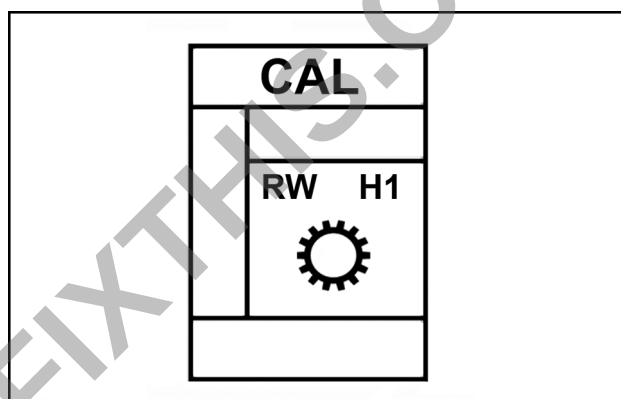
1. Park the tractor on level ground and engage the park brake. The tractor can move during this procedure so ensure that the area around the tractor is clear.
To enter clutch calibration mode press switch **(1)** on symbol **(A)** and power up the panel, then press the symbol **(B)** and start the engine.

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



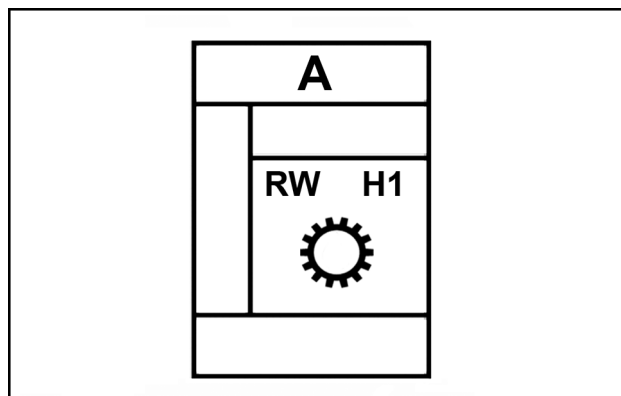
DCAPLT5NE046S3A 2

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).
8. Press and release the switch **(2)** fig. 2 on the symbol **(C)** or **(D)** , the display will show the letter identifying the clutch in the calibration phase: A.
9. With the clutch letter on the display press and hold the switch **(2)** fig. 2 on the symbol **(D)**.



DCAPLT5NE011S8A 4

REVERSE SPEED

RANGE	GEAR		REAR TIRES				
			INDEX RADIUS				
			625	675	700	725	750
I	1	LO	0.6 km/h (0.4 mph)	0.7 km/h (0.4 mph)	0.7 km/h (0.4 mph)	0.7 km/h (0.4 mph)	0.7 km/h (0.4 mph)
	2	LO	0.7 km/h (0.4 mph)	0.8 km/h (0.5 mph)	0.8 km/h (0.5 mph)	0.8 km/h (0.5 mph)	0.9 km/h (0.6 mph)
	3	LO	0.9 km/h (0.6 mph)	1.0 km/h (0.6 mph)	1.0 km/h (0.6 mph)	1.1 km/h (0.7 mph)	1.1 km/h (0.7 mph)
	4	LO	1.1 km/h (0.7 mph)	1.2 km/h (0.7 mph)	1.2 km/h (0.7 mph)	1.3 km/h (0.8 mph)	1.3 km/h (0.8 mph)
I	1	HI	1.4 km/h (0.9 mph)	1.5 km/h (0.9 mph)	1.6 km/h (1.0 mph)	1.6 km/h (1.0 mph)	1.7 km/h (1.1 mph)
	2	HI	1.6 km/h (1.0 mph)	1.8 km/h (1.1 mph)	1.8 km/h (1.1 mph)	1.9 km/h (1.2 mph)	2.0 km/h (1.2 mph)
	3	HI	2.1 km/h (1.3 mph)	2.2 km/h (1.4 mph)	2.3 km/h (1.4 mph)	2.4 km/h (1.5 mph)	2.5 km/h (1.6 mph)
	4	HI	2.4 km/h (1.5 mph)	2.6 km/h (1.6 mph)	2.7 km/h (1.7 mph)	2.8 km/h (1.7 mph)	2.9 km/h (1.8 mph)
II	1	LO	2.2 km/h (1.4 mph)	2.4 km/h (1.5 mph)	2.5 km/h (1.6 mph)	2.6 km/h (1.6 mph)	2.7 km/h (1.7 mph)
	2	LO	2.6 km/h (1.6 mph)	2.9 km/h (1.8 mph)	3.0 km/h (1.9 mph)	3.1 km/h (1.9 mph)	3.2 km/h (2.0 mph)
	3	LO	3.4 km/h (2.1 mph)	3.7 km/h (2.3 mph)	3.9 km/h (2.4 mph)	4.0 km/h (2.5 mph)	4.1 km/h (2.5 mph)
	4	LO	4.0 km/h (2.5 mph)	4.4 km/h (2.7 mph)	4.5 km/h (2.8 mph)	4.7 km/h (2.9 mph)	4.9 km/h (3.0 mph)
II	1	HI	5.2 km/h (3.2 mph)	5.6 km/h (3.5 mph)	5.8 km/h (3.6 mph)	6.0 km/h (3.7 mph)	6.2 km/h (3.9 mph)
	2	HI	6.1 km/h (3.8 mph)	6.6 km/h (4.1 mph)	6.8 km/h (4.2 mph)	7.0 km/h (4.3 mph)	7.3 km/h (4.5 mph)
	3	HI	7.7 km/h (4.8 mph)	8.3 km/h (5.2 mph)	8.6 km/h (5.3 mph)	8.9 km/h (5.5 mph)	9.2 km/h (5.7 mph)
	4	HI	9.0 km/h (5.6 mph)	9.8 km/h (6.1 mph)	10.1 km/h (6.3 mph)	10.5 km/h (6.5 mph)	10.8 km/h (6.7 mph)
III	1	LO	8.3 km/h (5.2 mph)	9.0 km/h (5.6 mph)	9.3 km/h (5.8 mph)	9.6 km/h (6.0 mph)	10.0 km/h (6.2 mph)
	2	LO	9.8 km/h (6.1 mph)	10.5 km/h (6.5 mph)	10.9 km/h (6.8 mph)	11.3 km/h (7.0 mph)	11.7 km/h (7.2 mph)
	3	LO	12.7 km/h (7.9 mph)	13.7 km/h (8.5 mph)	14.2 km/h (8.8 mph)	14.7 km/h (9.1 mph)	15.2 km/h (9.4 mph)
	4	LO	14.9 km/h (9.3 mph)	16.1 km/h (10.0 mph)	16.7 km/h (10.4 mph)	17.3 km/h (10.7 mph)	17.9 km/h (11.1 mph)
III	1	HI	19.0 km/h (11.8 mph)	20.6 km/h (12.8 mph)	21.3 km/h (13.2 mph)	22.1 km/h (13.7 mph)	22.9 km/h (14.2 mph)
	2	HI	22.4 km/h (13.9 mph)	24.2 km/h (15.0 mph)	25.1 km/h (15.6 mph)	26.0 km/h (16.2 mph)	26.9 km/h (16.7 mph)
	3	HI	28.3 km/h (17.6 mph)	30.6 km/h (19.0 mph)	31.7 km/h (19.7 mph)	32.8 km/h (20.4 mph)	34.0 km/h (21.1 mph)
	4	HI	33.3 km/h (20.7 mph)	36.0 km/h (22.4 mph)	37.3 km/h (23.2 mph)	38.7 km/h (24.0 mph)	40.0 km/h (24.9 mph)

PREVIEW ONLY

You're viewing 17 of 440 pages

The full manual includes:

- All 440 pages, complete
 - Searchable PDF (find any keyword)
 - No watermarks
 - Instant download
 - Print-ready quality
-

GET FULL MANUAL NOW

New Holland T5.75, T5.85, T5.95, T5.105, T5.115 Operator Manual



Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual