ORIGINAL INSTRUCTIONS

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Farmall® 110N
Farmall® 100N
Farmall® 90N
Farmall® 80N
Tractor

OPERATOR'S MANUAL

Part number 48042335
2nd edition English
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CASE IH AGRICULTURE

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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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3 - CONTROLS AND INSTRUMENTS

Access to operator's platform

Mounting and dismounting

⚠ WARNING

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

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⚠ CAUTION

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

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To access the operator's platform, there are two wide doors, one on the left and one on the right of the driver's seat.

Opening doors from outside

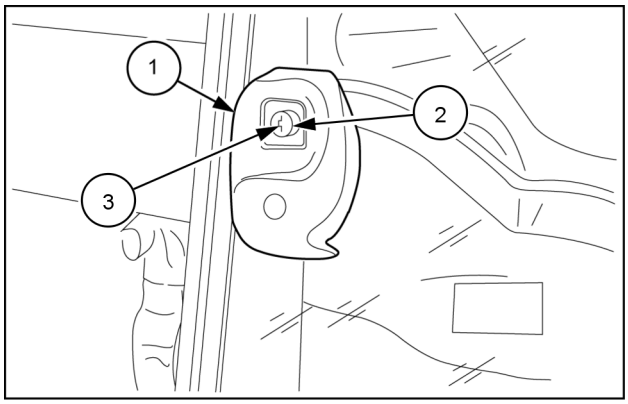
Both the left-hand and right-hand doors allow access to the cab, aided by interior and exterior handles and steps with non-slip strips.

From the outside, use the ignition keys to lock or unlock the door lock **(3)** to access the cab. With the door unlocked, press button **(2)** and pull the door toward you using the exterior handle **(1)**.

NOTE: *before you climb on, check that the step treads are clean and free of dirt and foreign substances. Slippery areas can cause accidents.*

NOTE: *climb the steps facing inwards and enter the cab. Sit correctly in the driver's seat and fasten the safety belt.*

NOTE: *pay attention to the position of the gear lever and the accelerator pedal when accessing the cab from the right-hand side.*



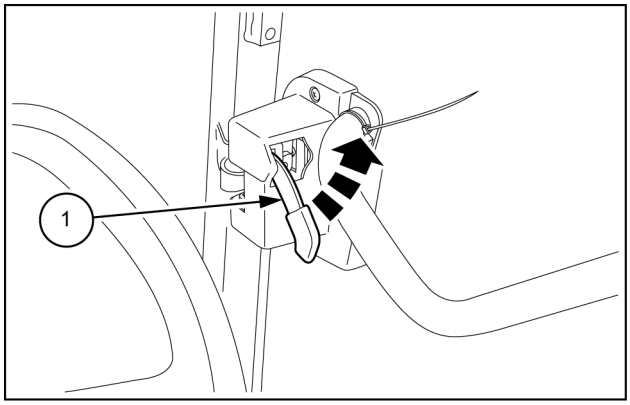
MOIL13TR00490AA 1

Opening the doors from the inside

To exit from the cab, unfasten the safety belt, move the release lever **(1)** upwards, then push the hand to open on of the two doors.

NOTE: *climb down the steps facing inward.*

NOTE: *due to the presence of the accelerator pedal and the gear lever on the right-hand side, we recommend climbing down from the tractor safely from the left-hand opening, leaving the right-hand opening as an emergency exit.*



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Moving the unit

Machine movement start-up

Break-in Procedure

The tractor running-in phase corresponds to the first 50 hours of use.

NOTICE: *during the running-in phase accurately carry out the tasks provided for in the scheduled maintenance plan concerning the first 50 hours of use.*

Checks to be carried out before moving the tractor

NOTICE: *before operating the tractor, make sure that you are thoroughly familiar with the location and operation of the controls.*

NOTICE: *before using the vehicle to carry out the daily working cycle, thoroughly perform the daily services and checks provided by the scheduled maintenance plan.*

Moving the tractor

To move the tractor, with vehicle stopped with park lock engaged and engine stopped, follow the instructions below:

1. Correctly sit on the driver seat.
2. Securely fasten your seat belt.
3. Start the engine. See Page **4-3**
4. Depress the brake pedal.
5. Disengage the park brake.
6. Fully depress the clutch pedal.
7. Move the shuttle lever in the desired travel direction.
8. Move the range selection lever and the gear lever in the desired positions.
9. Gradually release the clutch pedal and accelerate appropriately to move the vehicle.

Stopping the tractor

To stop the tractor, follow these instructions:

1. Operate on the accelerator, either hand throttle lever or foot throttle pedal, to reduce the engine speed to idle.
2. Gradually press the brake pedal and, shortly before the stop, the clutch pedal, then stop the tractor.
3. Move the shuttle lever, either mechanical or electro-hydraulic, in the neutral position.
4. Move the range selection lever in the neutral position.
5. Gradually release the clutch pedal.
6. Engage the brake or park lock.
7. Release the service brake pedal.
8. If required by the operator, stop the engine. See Page **4-5**.

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Maintenance planning

Maintenance chart

Maintenance action	Drain fluid	Replace	Checking	Cleaning	Adjust	Level top off	Tightening	Test	Grease	Lubrification	Change fluid	Page Nr.
As required												
Expansion tank - Level top off	x											**7-20**
Windshield washer fluid tank - Form level	x											**7-21**
Road lights - Adjust		x										**7-21**
Clutch pedal - Adjust		x										**7-21**
Parking brake-Adjust		x										**7-22**
Drive line oil cooler - Clean			x									**7-23**
Radiator and intercooler - Clean			x									**7-25**
Tires — Pressure check and general conditions				x								**7-26**
Air cleaner - Clean			x									**7-27**
Fuel filters - Cleaning glass pre-filter			x									**7-28**
Cab climate control - Check				x								**7-30**
Engine lubrication system - Replace oil					x							**7-31**
Category 2 cab air cleaner - Check				x								**7-33**
Category 4 cab air cleaner - Check				x								**7-34**
On display of an alarm message												
Category 4 cab air cleaner - Replace					x							**7-35**
Engine air cleaner - Cleaning			x									**7-36**
Fuel filters - Fluid draining						x						**7-37**
Brake fluid - Level make up	x											**7-39**
Expansion tank - Coolant level check				x								**7-39**
Engine lubrication system - Check				x								**7-39**
Every 10 hours or daily												
Engine lubrication system - Check				x								**7-41**
Engine cooling system - Expansion tank level check				x								**7-42**
Brake fluid tank - Check				x								**7-43**
Engine air cleaner - check				x								**7-43**
Windshield washer fluid tank - Check				x								**7-43**
Drive line oil cooler - Check				x								**7-44**
Radiator and intercooler - Check				x								**7-45**
Fuel filters - Glass pre-filter check				x								**7-46**
Brake pedals - Coupling pin check				x								**7-47**
Initial 50 hours												
Maintenance - Tighten							x					**7-48**
Maintenance - Check				x								**7-48**
Maintenance - Replace					x							**7-49**
Maintenance - Clean			x									**7-49**
Maintenance - Test							x					**7-49**
Maintenance - Grease								x				**7-50**
Every 50 hours												
2WD steering cylinder								x				**7-51**
2WD-front axle pin								x				**7-51**
2WD right and left hand stub axle									x			**7-52**
Front axle pin 4WD								x				**7-53**

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8 - TROUBLESHOOTING

Fault code resolution

TROUBLESHOOTING ENGINE

⚠ 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.

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⚠ 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.

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

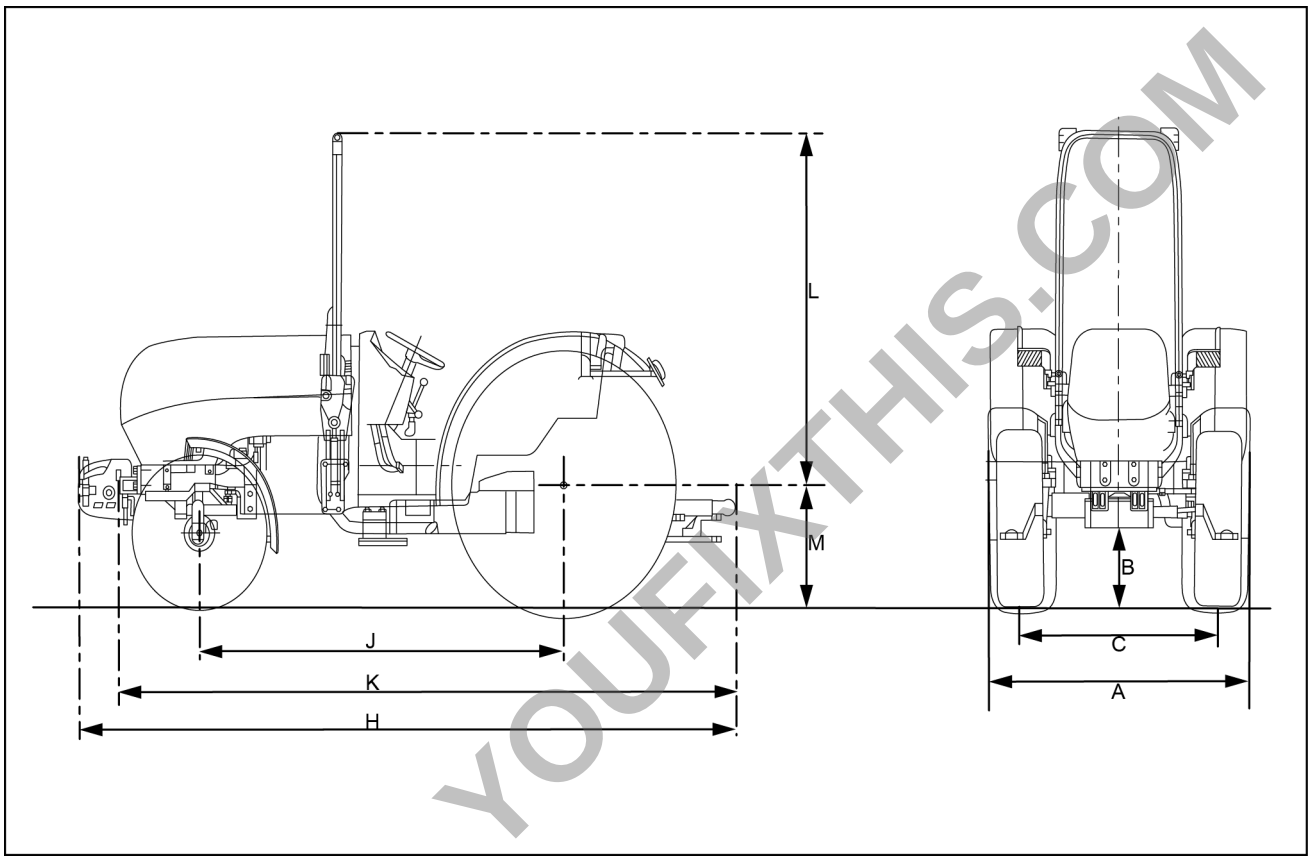
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9 - SPECIFICATIONS

Dimensions and weights

Dimensions of models without cab



MOIL16TR03520FA 1

Size	2WD	4WD
(A) min	**1170.0 mm (46.1 in)**	**1170.0 mm (46.1 in)**
(A) max	**1408.0 mm (55.4 in)**	**1408.0 mm (55.4 in)**
(B) min	**217.0 mm (8.5 in)**	**192.0 mm (7.6 in)**
(B) max	**317.0 mm (12.5 in)**	**317.0 mm (12.5 in)**
(C) front	*	
(C) axle	**	
(J)	**2153.0 mm (84.8 in)**	**2180.0 mm (85.8 in)**
(K)	**3710.0 mm (146.1 in)**	**3737.0 mm (147.1 in)**
(H)	**3980.0 mm (156.7 in)**	**3980.0 mm (156.7 in)**
(M)	***	
(L)	**1713.0 mm (67.4 in)**	**1713.0 mm (67.4 in)**

* Refer to page **6-76**.

** Refer to page **6-78**.

*** Refer to page **6-71**.

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Capacities

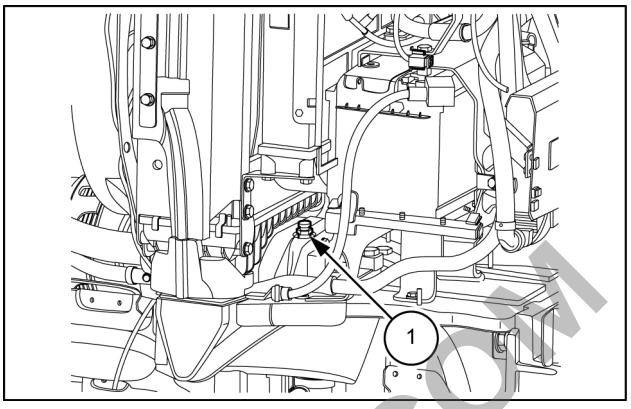
	QUANTITY
Engine cooling system	**14.00 L** (**3.70 US gal**) models without cab — **16.00 L** (**4.23 US gal**) models with cab
Windscreen wash reservoir	**2.00 L** (**0.53 US gal**)
Fuel tank	**71.00 L** (**18.76 US gal**)
Engine oil	**9.50 L** (**2.51 US gal**) (**1.40 L** (**0.37 US gal**) in the filter and in the pipes)
Brake circuit	**0.50 L** (**0.13 US gal**)
Front brake circuit	**0.20 L** (**0.05 US gal**)
Front axle housing	**2.80 L** (**0.74 US gal**)
Front axle final drives (each) - with brakes	**1.75 L** (**0.46 US gal**)
Front axle final drives (each) - without brakes	**1.00 L** (**0.26 US gal**)
Rear axle (bevel drive, final drives and brakes), transmission, hydraulic lift, power take-off and hydrostatic steering	**44.00 L** (**11.62 US gal**)
Coolant	**1.075 L** (**0.284 US gal**)
Air conditioning supercharger	**0.180 L** (**0.048 US gal**)

NOTE: *the total capacity of the fuel tank indicated in the table includes the capacity of both tanks on the tractor.*

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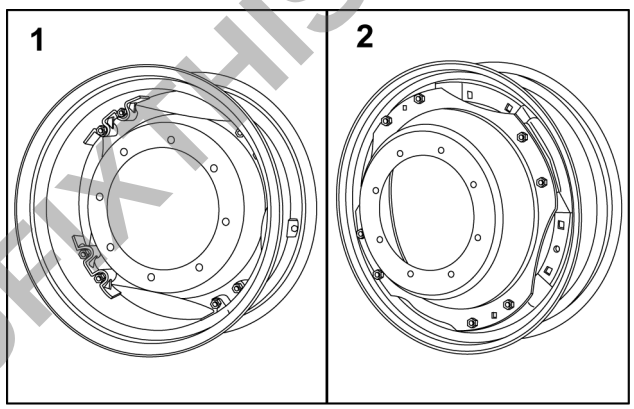
1. Remove and clean the plastic protection to the **(1)** front PDF power take-off oil breather.
2. Clean any dust and/or dirt deposits from the **(1)** breather using a suitable cleaning agent.
3. Fit the plastic protection to the **(1)** front PTO power take-off oil breather.



MOIL15TR02959AB 1

Front and rear wheel nuts - Check tightening torque

1. Thoroughly clean the wheels.
2. Park the tractor on solid, level ground, with the front wheels straight.
3. Set the Park Brake.
4. Check the condition of the tyres and tyre pressure; inflate if necessary. See**7-26** .
5. Using a suitable dynamometric wrench, check that the nuts on the front and rear wheels are properly locked at the set tightening torque, as indicated in the table provided below; tighten if necessary.
6. Check that the wheels, on their respective axis, are parallel and are longitudinal to the tractor. If not, consult the local dealership.



MOIL13TR00011AA 1

NOTICE: *the dynamometric wrench must be suitably calibrated and certified. If the proper tool is not available, contact the local dealership.*

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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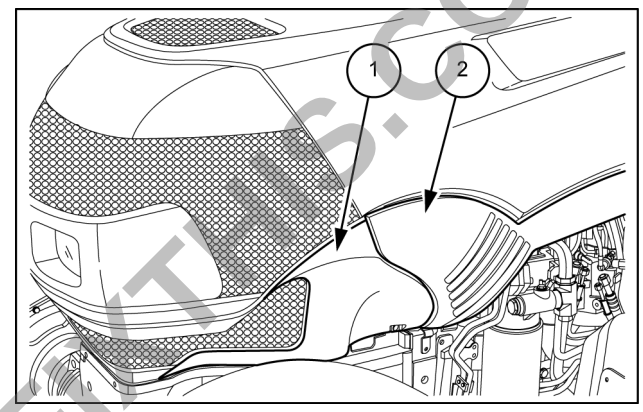
Removing the engine side shields

⚠ WARNING

Moving parts!
Install all covers, panels, and guards after servicing or cleaning the machine. Never operate the machine with covers, panels, or guards removed.
Failure to comply could result in death or serious injury.

W0135A

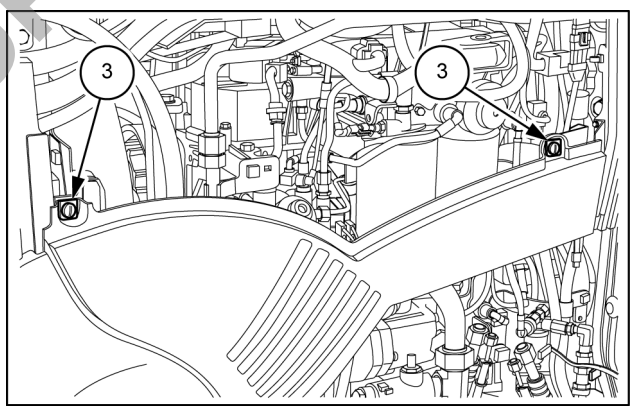
To access the engine and perform an inspection, lubricate and carry out maintenance, the side protection panels on the engine side **(1)** and **(2)**, located on the left and right sides of the engine, may need to be removed. The following steps describe the procedure for individually removing the rear and front panels, applicable to both sides of the engine.



MOIL15TR02155AA 1

Rear panels:

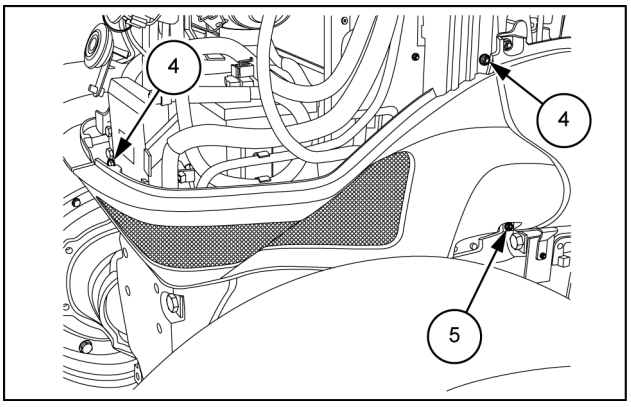
1. Open the hood, see **7-15**.
2. Unscrew the upper attachment screws **(3)**.
3. Remove the rear panel **(2)** (fig. **1**) raising and sliding the panel out from the lower positioning pins.
4. Replace by repeating the steps in reverse order.



MOIL15TR02156AA 2

Front panels:

1. Open the hood, see **7-15**.
2. Unscrew the upper attachment **(4)** and the lower screw **(5)** .
3. Remove the front panel **(1)** (fig. **1**) raising and sliding the panel out from the lower positioning pins.
4. Replace by repeating the steps in reverse order.



MOIL15TR02355AA 3

NOTICE: *before reassembling, thoroughly clean the parts and make sure they are intact. In the event of breakage/ malfunction, replace them. Never repair parts. Only use original replacement parts.*

NOTICE: *in order to avoid damaging the main electrical parts and/or compromising proper cooling of the engine, never begin the work cycle without the front and rear side engine panels correctly mounted on the tractor.*

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Brakes
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Four-Wheel Drive (4WD)
Four-wheel drive 6-9

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(11) Position: applied to the right-hand rear fender.
Part number: 87576315

WARNING
Rotating parts.
Pull only from drawbar. Pulling from any other point can cause rear overturn.

Do not operate with the PTO unguarded.

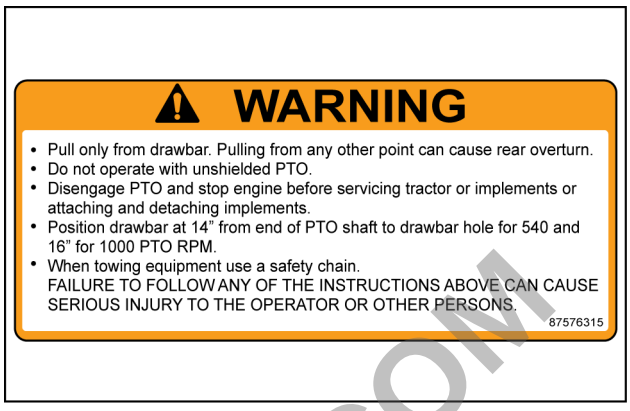
Disengage PTO and stop engine before servicing tractor or implements or attaching and detaching implements.

Position drawbar at 14” from end of PTO shaft to drawbar hole for 540 and 16” for 1000 PTO RPM.

When towing equipment use safety chain.

FAILURE TO FOLLOW ANY OF THE INSTRUCTIONS ABOVE CAN CAUSE SERIOUS INJURY TO THE OPERATOR OR OTHER PERSONS.

Failure to comply could result in death or serious injury..



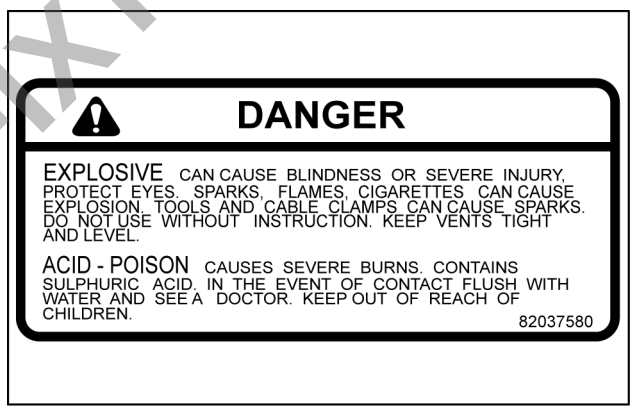
87576315 12

(12) Position: applied to battery compartment.
Part number: 82037580

DANGER
Risks: chemicals, explosion, bodily injury.
EXPLOSIONS CAN CAUSE BLINDNESS OR SEVERE INJURY. PROTECT THE EYES. SPARKS, FLAMES AND CIGARETTES CAN CAUSE EXPLOSIONS. TOOLS AND CABLE CLAMPS CAN CAUSE SPARKS. DO NOT USE UNLESS YOU HAVE READ THE INSTRUCTIONS. KEEP THE OUTLETS SEALED AND AT THE CORRECT LEVEL.

ACID - POISON CAUSES SEVERE BURNS CONTAINS SULPHURIC ACID. IN THE EVENT OF CONTACT FLUSH WITH WATER AND SEE A DOCTOR. KEEP OUT OF REACH OF CHILDREN.

Failure to comply will result in death or serious injury



82037580 13

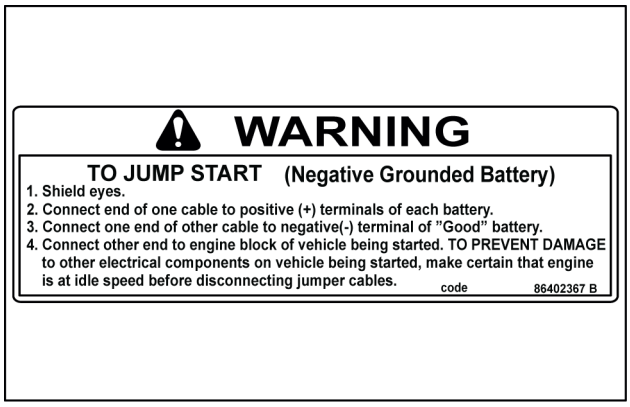
(13) Position: battery compartment.
Part number: 86402367

WARNING
Unexpected machine movement!

TO JUMP START (Negative Grounded Battery)

1. Shield your eyes.
2. Connect end of one cable to positive (+) terminals of each battery.
3. Connect one end of other cable to negative (-) terminal of "Good" battery.
4. Connect other end to engine block of vehicle being started. TO PREVENT DAMAGE to other electrical components on vehicle being started, make certain that engine is at idle speed before disconnecting jumper cables.

Failure to comply could result in death or serious injury..



86402367 14

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Idle speed management

Managing the idle speed is an additional feature to reduce fuel consumption and operating costs during operation of the tractor.

Low idle speed management

Managing low idle speed, if present, allows automatically reducing the engine's idle speed from **850 RPM** to **700 RPM**, in order to optimise fuel consumption when the tractor is parked in the following conditions:

- Vehicle stationary
- Engine on with accelerator, both hand throttle and pedal, on idle
- Operator not on driver's seat
- Gear and reducer selection lever in neutral
- Clutch pedal released
- Engine coolant temperature between **60 °C** (**140 °F**) and **95 °C** (**203 °F**)
- Rear and front power take-off, if present, not engaged
- Hydraulic valves, if present, not active
- Hydraulic lifts not active
- The battery voltage is over **11 V**
- Hydraulic system fluid temperature higher than **40 °C** (**104 °F**)
- Engine oil temperature higher than **60 °C** (**140 °F**) .
- Engine oil pressure within rated values
- The air-conditioning system is disabled

NOTICE: *do not keep the low idle speed management function active for over 60 minutes, in order to avoid damaging the exhaust-gas aftertreatment system (particulate filter (DPF) and catalyst) and the electrical system.*

NOTE: *the engine idle speed management function may only be activated in the factory by the manufacturer, or authorised dealer personnel.*

High idle speed management

The high idle speed management, if present, allows automatically increasing the idle speed of the engine from **700 RPM** to **1000 RPM** for 5 minutes in order to avoid damaging the exhaust-gas aftertreatment system (particulate filter (DPF) and catalyst) and the electrical system, in the event the low idle speed function has been active for over 60 minutes.

NOTE: *the engine speed will change automatically without warning.*

NOTE: *the engine idle speed management function may only be activated in the factory by the manufacturer, or authorised dealer personnel.*

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Power Take-Off Speeds

The power take−off is available in the following versions:

- One-speed: **540 RPM**
- Two-speed: **540/540E RPM**
- Two-speed: **540/1000 RPM**

NOTE: *The standard version of the tractor is provided only with* ***540 RPM*** *power-take off (PTO).*

Power take-off speeds

540 RPM speed selector lever	
Power take-off speed	Engine speed
540 RPM	**1958 RPM**
634 RPM	**2300 RPM**

540E RPM speed selector lever	
Power take-off speed	Engine speed
540 RPM	**1535 RPM**
809 RPM	**2300 RPM**

1000 RPM speed selector lever	
Power take-off speed	Engine speed
1000 RPM	**2000 RPM**
1150 RPM	**2300 RPM**

The data in the table above are:

- The engine speed at the two rated speeds of the PTO.
- For both versions, the PTO speed at the rated speed of the engine (**2300 RPM**).

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Exhaust Gas Recirculation (EGR) exhaust treatment - Basic instructions - Resetting the oil life monitoring system

Regenerating the Diesel Particulate Filter (DPF) system at high temperatures will cause accelerated deterioration of the engine oil due to fuel injection events during the exhaust stroke. The engine controller can estimate oil life based on the number of regeneration events and engine operating conditions since the last oil change. Therefore, the oil life monitoring system must be reset every time the engine oil is changed. Follow the procedures below based on the configuration of your machine.

Machines equipped with a foot throttle

1. Turn the key switch to the ON position but do not start the engine.
2. Press the foot throttle greater than **90%** of its travel and hold for **15 s**.
3. Fully release the foot throttle for **15 s**.
4. Press the foot throttle greater than **90%** of its travel and hold for **15 s**.
5. Fully release the foot throttle for **15 s**.
6. Press the foot throttle between **10 – 90%** and hold for **15 s**.
7. Turn the key switch to the OFF position.

Machines not equipped with a foot throttle

Reset the system using the “Oil Life Monitoring Reset” function within the setup menu of the instrument cluster.

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Air conditioner condenser - Cleaning

⚠ WARNING

Hot surface possible!
Wait for all components to cool before performing any operation.
Failure to comply could result in death or serious injury.

W0251A

⚠ CAUTION

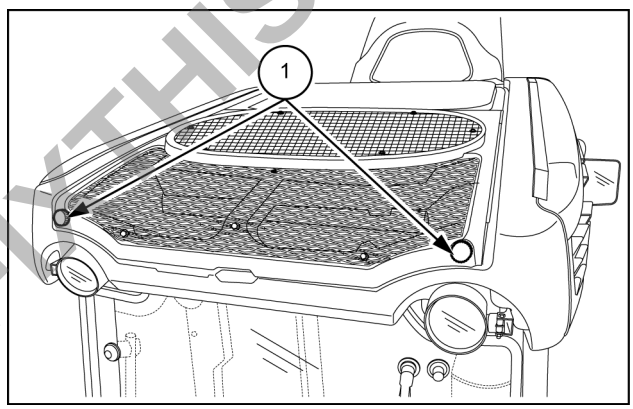
Hot area!
Use care when working near hot components. Wear protective gloves.
Failure to comply could result in minor or moderate injury.

C0034A

NOTE: *to carry out the operation, use a suitable size ladder.*

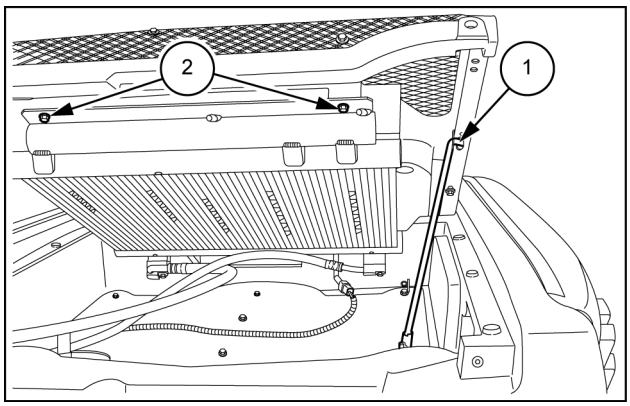
NOTICE: *avoid setting the ladder against the cab and/or vehicle.*

1. Loosen the retainer knobs **(1)** on the capacitor access hatch.



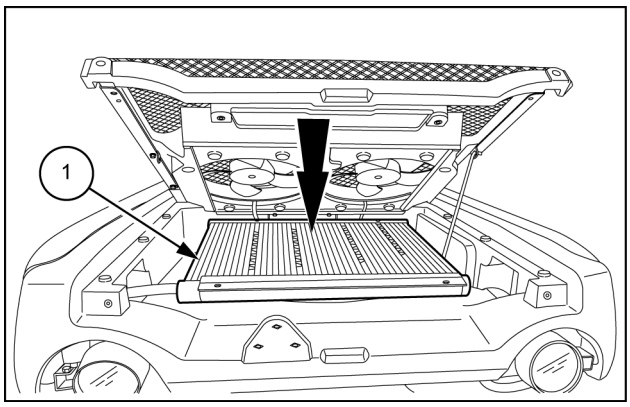
MOIL15TR02123AB 1

2. Manually raise the capacitor, then hook the rod **(1)** to hold it in an open position.
3. Loosen the capacitor retaining screws **(2)**.



MOIL15TR02078AB 2

4. With care, manually lower the capacitor.
5. Clean the capacitor **(1)** blowing compressed air in the direction indicated by the arrow.



MOIL15TR02081AB 3

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Relay	Shield
R7	Main beam
R8	Side lights
R9	2nd Control valve
R10	3rd Control valve
R11	Main mid mount valve
R12	Four-wheel drive / electro-hydraulic control valve (ELHYD)
R13	Four-wheel drive
R14	Air conditioning compressor
R15	No where used
R16	No where used
R17	No where used
R18	No where used
R19	No where used
R20	Main electro-hydraulic remote (EHR) control
R21	Front power take-off 1
R22	Front power take-off 2
R23	Front power take-off / 58 Key Line
R24	Electro-hydraulic remote (EHR) control

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