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.*

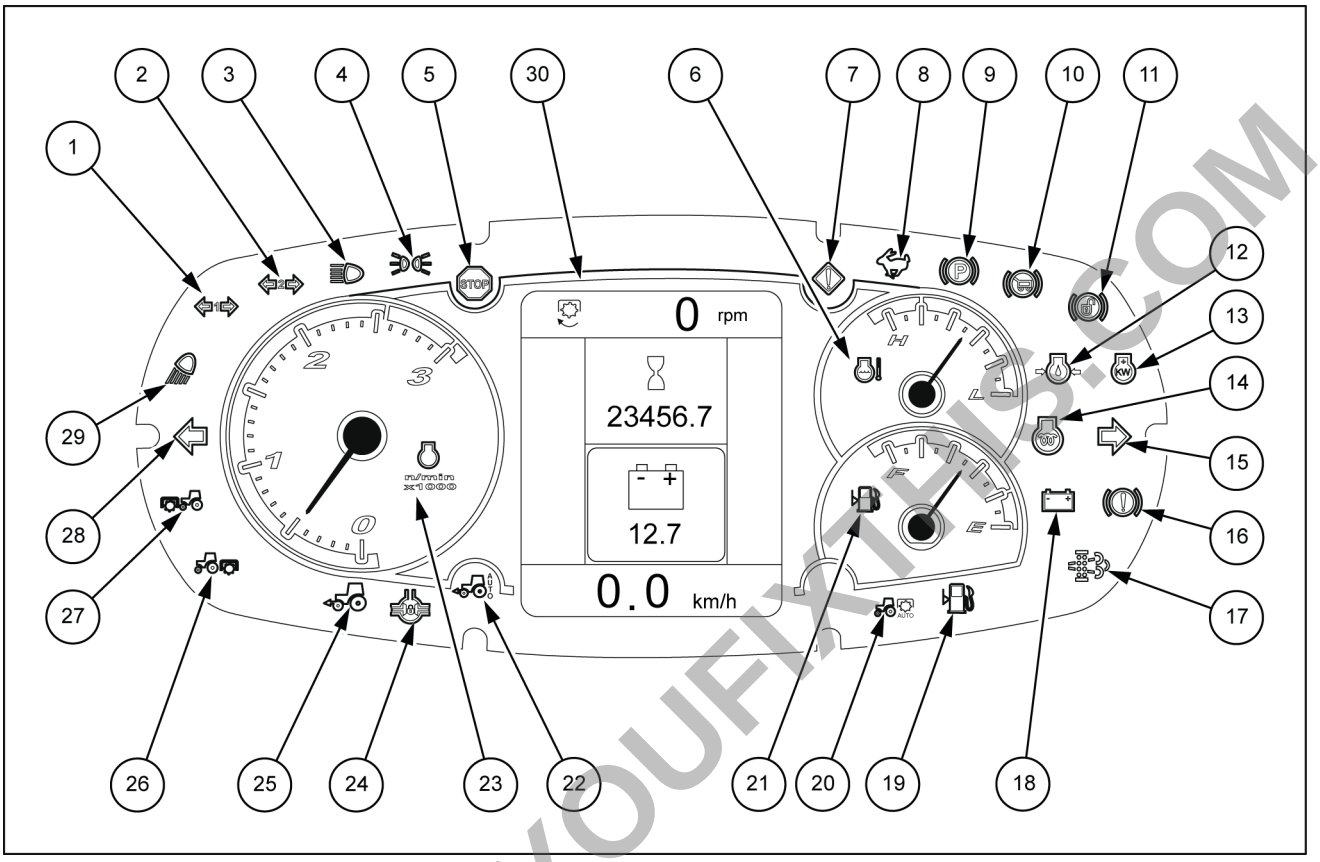
Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

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FORWARD CONTROLS

Instrument cluster



MOIL13TR02209FA 1

The indicator lights on the control panel inform you of the operational condition of the machine. Some of these indicate faults arising during operation. An indicator light coming on may be followed by a continuous or intermittent buzzer. Depending on the severity of the trouble, the alarm will sound.

1 ⇦1⇨ **Trailer direction indicator light (green)**
This indicator light flashes together with the tractor/trailer direction indicators, if the first trailer is connected

2 ⇦2⇨ **Trailer direction indicator light (green)**
This indicator light flashes together with the tractor/trailer direction indicators, if the second trailer is connected

3 **Full beam headlights (blue)**
This indicator light will illuminate when the tractor lights are switched to high beam.

4 **Sidelights (green)**
This indicator light is illuminated when the tractor lights are turned on.

5 STOP **Stop warning light (red)**
If the red "Stop" warning light comes on, switch off the tractor immediately and look for the cause. A warning symbol will appear on the display **(30)** confirming the location of the fault.

6 **Engine coolant temperature gauge**
This instrument indicates the temperature of the engine coolant.

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6 - WORKING OPERATIONS

Transmission

Transmission operation

⚠ WARNING

Unexpected machine movement!
With the engine running and only the gear lever in neutral, the machine can engage and move suddenly if someone accidentally operates this lever. Place all levers in neutral, disengage the power take-off, lower any implements, and set the parking brake before exiting the machine. Use wheel chocks when parking on slopes.
Failure to comply could result in death or serious injury.

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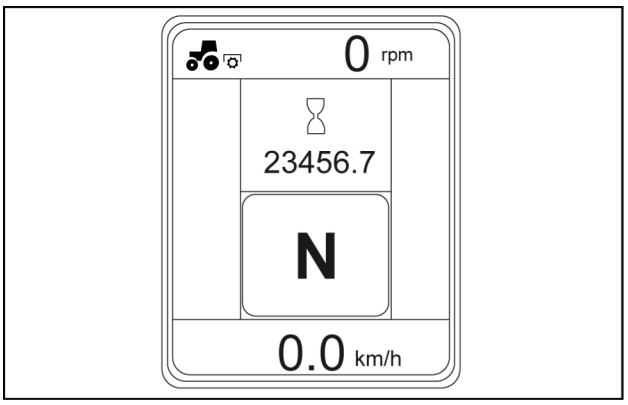
NOTE: *To start the engine you need to put the shuttle and power take−off (PTO) control levers into neutral, additionally you need to press the clutch pedal fully down.*

The tractor features many transmission ratios thanks to the combined use of different levers, so that for each main gear it is possible to obtain different speeds. Section 9 (Specifications) shows the tables of the various speeds for the different combinations.

Your tractor can be equipped with the following types of transmission, all with a mechanical or electro-hydraulic shuttle.

Transmission
12 x 12 gearbox with **Synchro Shuttle™** transmission
20 x 20 gearbox (12 x 12 gearbox with **Synchro Shuttle™** transmission and creeper unit)
24 x 24 gearbox (12 x 12 gearbox with **Synchro Shuttle™** transmission and splitter)
12 x 12 gearbox with Power shuttle transmission
20 x 20 gearbox (12 x 12 gearbox with Power shuttle transmission and creeper unit)
24 x 24 gearbox (12 x 12 gearbox with Power shuttle transmission and splitter)
24 x 24 gearbox (12 x 12 gearbox with **Dual Command™** transmission)
40 x 40 gearbox (12 x 12 gearbox with **Dual Command™** transmission and creeper unit)

NOTE: *with the tractor stationary and the shuttle lever in the forward drive position or in the reverse drive position, if you fail to depress the clutch pedal before you move the main shift lever from neutral, it will not be possible to engage the drive. In this case, the error code "N" will appear on the central display and an audible warning signal will sound simultaneously. Depress the clutch pedal and shift the shuttle lever to neutral to clear the display and re-engage the drive.*



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MAINTENANCE CHART

Maintenance chart

Maintenance action	Check	Filling	Cleaning	Drain fluid	Replace	Adjust	Change fluid	Grease	Test	Tighten	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	x										**7-18**
Remote control valve reservoir - Check	x										**7-18**
Radiator - Cleaning			x								**7-19**
Brake pedals - Check	x										**7-19**
Hydraulic steering line - Check	x										**7-20**
External lighting - Check	x										**7-20**
Wheels - Check	x										**7-20**
Master clutch release control - Check	x										**7-21**
At warning message display											
Air cleaner - Cleaning			x								**7-22**
Brake fluid reservoir - Filling		x									**7-23**
Fuel filters - Drain fluid				x							**7-23**
Engine - Replace - Engine oil and filter					x						**7-24**
Every 10 hours or daily											
Engine - Check - Oil level	x										**7-25**
Air tanks - Drain fluid				x							**7-25**
After the first 50 hours of operation											
Maintenance - Tighten										x	**7-26**
Maintenance - Check	x										**7-26**
Maintenance - Replace					x						**7-26**
Maintenance - Cleaning			x								**7-27**
Maintenance - Test									x		**7-27**
Maintenance - Grease								x			**7-27**
Every 50 hours											
Steering cylinder - Grease - (2WD)								x			**7-28**
Front axle - Grease - Pivot pin (2WD)								x			**7-28**
Steering knuckle - Grease - (2WD)								x			**7-28**
Four-Wheel Drive (4WD) axle - Grease								x			**7-29**
Axle articulation support - Grease - SuperSteer™ axle								x			**7-29**
Front drive shaft - Grease - SuperSteer™ axle								x			**7-29**
Rear three-point hitch - Grease								x			**7-30**
Rear hitch - Grease - Mechanical lift								x			**7-30**
Front hitch - Grease								x			**7-30**
Every 100 hours											
Air-conditioning condenser - Cleaning			x								**7-31**
Transmission cooler - Cleaning			x								**7-31**
Aftercooler - Cleaning			x								**7-32**
Cab air filters - Cleaning			x								**7-32**
Cab air filters - Cleaning - Recirculation Filters			x								**7-33**
Accessory belt - Check - Alternator belt	x										**7-33**
Compressor drive belt - Check	x										**7-33**

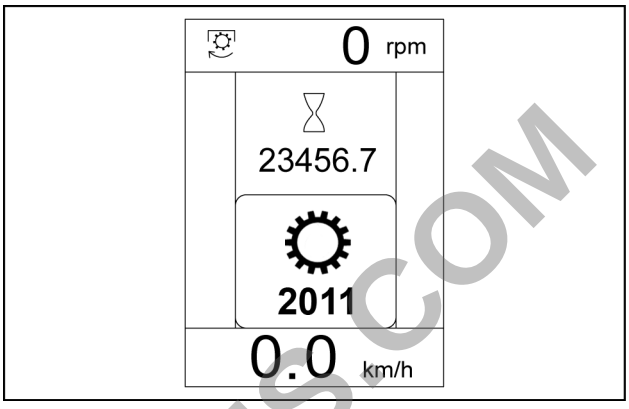
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SYMPTOM(S)

Viewing error codes

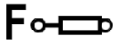
The tractor's electronic control units are able to detect operating faults or errors occurring in key areas such as the engine, gearbox, electric and hydraulic systems.
Should a malfunction or error occur, the relevant symbol and error code will appear in the display.
This display may be accompanied 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 CASE IH authorized dealer's specialized personnel where envisaged.



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Error code identification

NOTE: *In the event that an anomaly is found, a warning signal and a four- or five-digit error code will appear on the central display of the instrument cluster. To resolve the problem, contact your authorized CASE IH dealer, providing the data from the error code displayed.*

Symbol on the display	Error code	Area of fault
	From **1001** to **2000**	Rear hydraulic lift
	From **2001** to **3000**	Transmission
	From **3001** to **4000**	Engine
	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/electronic problems

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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.

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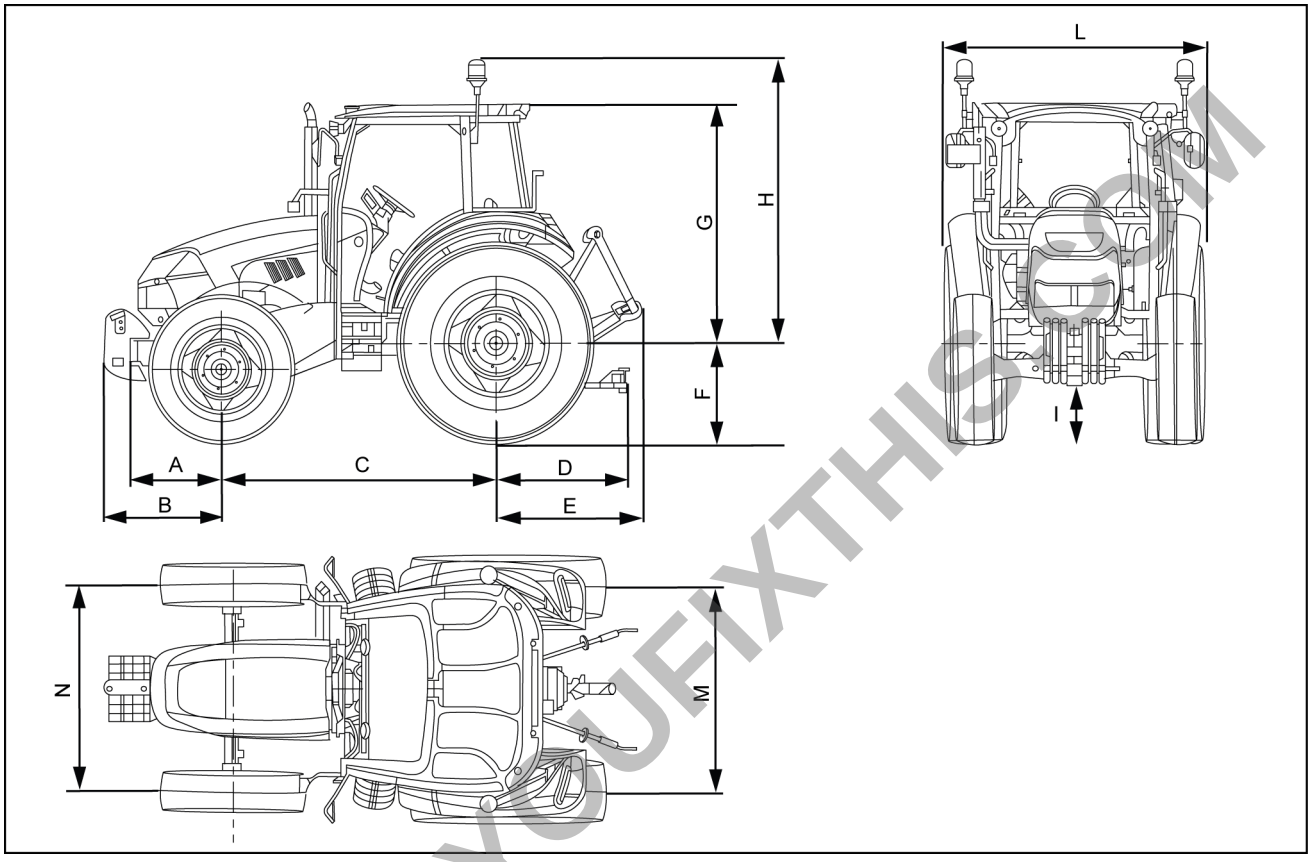
Problem	Possible Cause	Correction
The engine will not start or starts with difficulty	Incorrect starting procedure	See the starting procedure
	Fuel level low or empty	Check the fuel level
	Air in fuel system	Bleed fuel system
	Engine oil viscosity not right	Use oil of right viscosity
	Fuel not suitable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



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Reference	Dimension
A	**671 mm** (**26.42 in**)
B	**869 mm** (**34.21 in**)
C ● 2WD	**2293 mm** (**90.28 in**)
C ● 4WD	**2235 mm** (**87.99 in**)
D	**831 - 881 mm** (**32.72 - 34.69 in**)
E	**1130 mm** (**44.49 in**)
F	Tire index radius
G	**1819 mm** (**71.61 in**)
H	**2140 mm** (**84.25 in**)
I	**248 - 423 mm** (**9.76 - 16.65 in**)
L	**1923 mm** (**75.71 in**)
M	**1337 - 1937 mm** (**52.64 - 76.26 in**)
N ● 2WD	**1429 - 2029 mm** (**56.26 - 79.88 in**)
N ● 4WD	**1235 - 1947 mm** (**48.62 - 76.65 in**)

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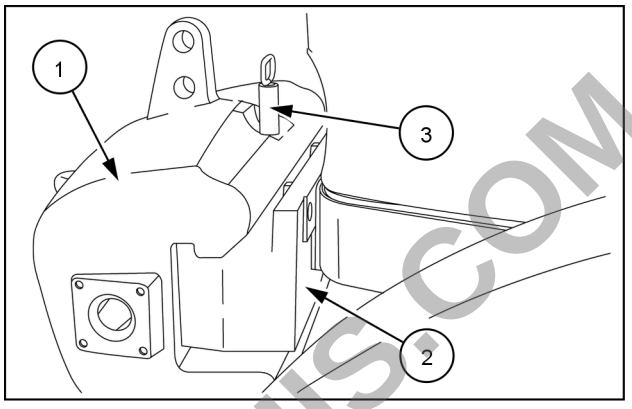
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Single piece ballast

It is possible to use a single piece ballast weight that weighs **400 kg** (**882 lb**) to ballast the front part or rear part of the tractor.

To fit the ballast on the tractor, proceed as follows:

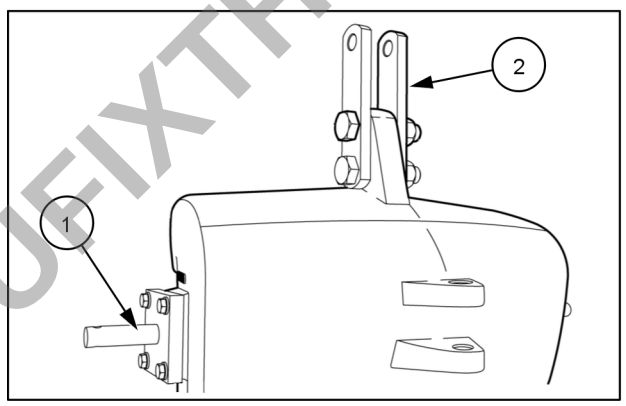
1. Use lifting equipment with an adequate capacity. Slide the ballast **(1)** on to the front support **(2)**.
2. Insert the pin **(3)** to fasten the ballast to the front support.
3. Insert the safety pin on the lower part of the pin **(3)** to prevent the pin from slipping accidentally.



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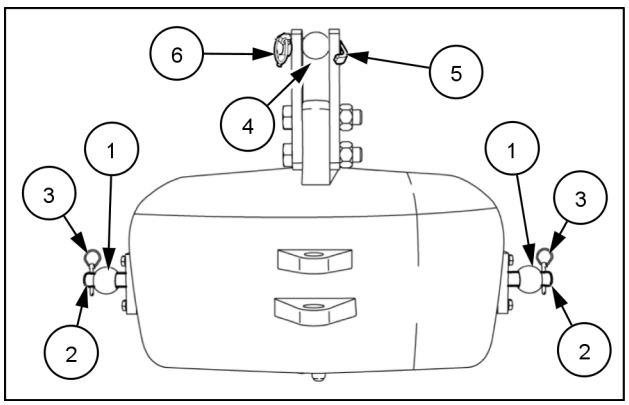
The ballast may also be fitted on the rear lift and, if present, on the front lift.

1. Fit the lift arms **(1)** on both sides of the ballast. Secure the lift arms using their fastenings.
2. Fit the tie rods **(2)**. Use the fastenings of the tie rods to secure the tie rods.



MOIL14TR01448AA 2

3. Extract the three ball bushings from the lift.
4. Insert two ball bushings **(1)** on the lift arms **(2)**.
5. Use the shear pins **(3)** to secure the ball bushings.
6. Fit the ball bushing **(4)** between the tie rods installed earlier. Use the pin **(5)** supplied.
7. Secure the pin **(5)** with the safety pin **(6)**.



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Ecology and the environment

Soil, air, and water quality is important for all industries and life in general. When legislation does not yet rule the treatment of some of the substances that advanced technology requires, sound judgment should govern the use and disposal of products of a chemical and petrochemical nature.

Familiarize yourself with the relative legislation applicable to your country, and make sure that you understand this legislation. Where no legislation exists, obtain information from suppliers of oils, filters, batteries, fuels, anti-freeze, cleaning agents, etc., with regard to the effect of these substances on man and nature and how to safely store, use, and dispose of these substances. Your CASE IH dealer can also provide assistance.

Helpful hints

- Avoid the use of cans or other inappropriate pressurized fuel delivery systems to fill tanks. Such delivery systems may cause considerable spillage.
- In general, avoid skin contact with all fuels, oils, acids, solvents, etc. Most of these products contain substances that may be harmful to your health.
- Modern oils contain additives. Do not burn contaminated fuels and or waste oils in ordinary heating systems.
- Avoid spillage when you drain fluids such as used engine coolant mixtures, engine oil, hydraulic fluid, brake fluid, etc. Do not mix drained brake fluids or fuels with lubricants. Store all drained fluids safely until you can dispose of the fluids in a proper way that complies with all local legislation and available resources.
- Do not allow coolant mixtures to get into the soil. Collect and dispose of coolant mixtures properly.
- Do not open the air-conditioning system yourself. It contains gases that should not be released into the atmosphere. Your CASE IH dealer or air-conditioning specialist has a special extractor for this purpose and can recharge the system properly.
- Repair any leaks or defects in the engine cooling system or hydraulic system immediately.
- Do not increase the pressure in a pressurized circuit as this may lead to a component failure.

Battery recycling

Batteries and electric accumulators contain several substances that can have a harmful effect on the environment if the batteries are not properly recycled after use. Improper disposal of batteries can contaminate the soil, groundwater, and waterways. CASE IH strongly recommends that you return all used batteries to a CASE IH dealer, who will dispose of the used batteries or recycle the used batteries properly. In some countries, this is a legal requirement.



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Mandatory battery recycling

NOTE: *The following requirements are mandatory in Brazil.*

Batteries are made of lead plates and a sulfuric acid solution. Because batteries contain heavy metals such as lead, CONAMA Resolution 401/2008 requires you to return all used batteries to the battery dealer when you replace any batteries. Do not dispose of batteries in your household garbage.

Points of sale are obliged to:

- Accept the return of your used batteries
- Store the returned batteries in a suitable location
- Send the returned batteries to the battery manufacturer for recycling

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PASSENGER'S SEAT

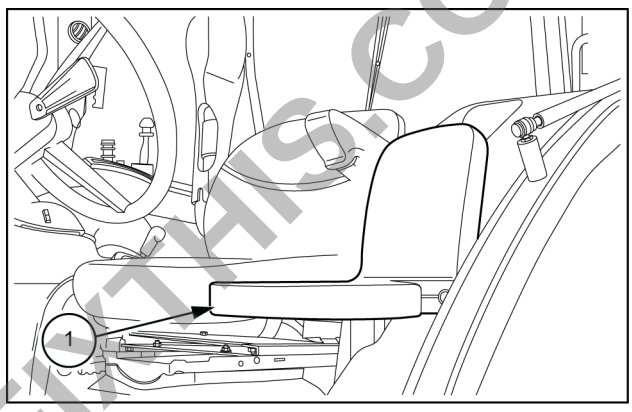
Passenger's seat

⚠ WARNING

Avoid injury!
The passenger seat shall only be used when training a new operator or when a service technician is diagnosing a problem. Do not permit others, especially children, to ride in the seat. Keep the cab door(s) closed. Wear a seat belt at all times.
Failure to comply could result in death or serious injury.

W1184A

A folding passenger seat is available for some markets where local legislation permits. The presence of a passenger is permissible for road use, while for working in the field the seat should be used by an instructor for training new operators or by service technicians for fault diagnosis and checking problems. The occupant must always wear a seat belt.



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If the following signals are displayed on the dashboard, it is necessary to proceed as follows:

Regeneration requested

Even if the automatic regeneration is enabled, perform forced regeneration.

Warning light on dashboard			
	Flashing	ON	OFF
Central display			

Dangerous threshold — Low severity

Soft engine derate.

Automatic regeneration disabled. Perform forced regeneration.

Warning light on dashboard			
	Flashing	OFF	ON
Central display	3786		

Dangerous threshold — High severity

Hard engine derate.

Automatic regeneration disabled. Forced regeneration disabled. Contact your dealer.

Warning light on dashboard			
	Flashing	OFF	ON
Central display	3787		

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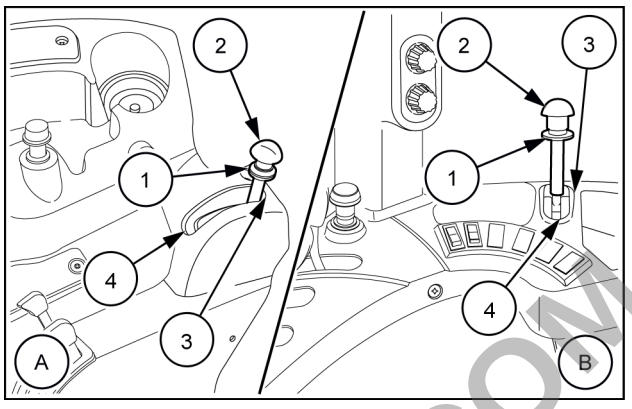
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To operate the power take−off, proceed as follows:

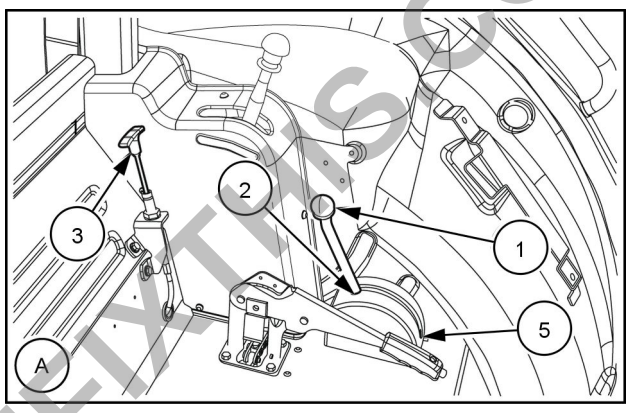
- Make sure that the engine is running.
- Make sure that the lever **(1) 6** and **7** is in the power take-off disengagement position; position **(2)**.
- Move the selector lever **(3) 6** and **7** onto the position corresponding to the desired speed.

  NOTICE: *Before selecting the power take−off speed, ensure you have fitted the correct splined output shaft for the speed you want to select.*
- Gradually engage the power take−off, raise the collar **(1)** and move the selection lever **(2) 5** into the position **(4)**.
- The power take-off engagement is shown by the orange warning indicator **(9)** lighting up, figure **8**.
- Gradually increase the engine speed until it reaches the rpm of the output shaft of the PTO that matches the speed of the selected power take off.
- The power take off speed and the respective revolutions of the power take-off output shaft are shown on page **Power Take-Off (PTO) - General specification**.
- To disengage the power take−off, raise the collar **(1)** and move the engagement lever **(2) 5** to the position **(3)**.

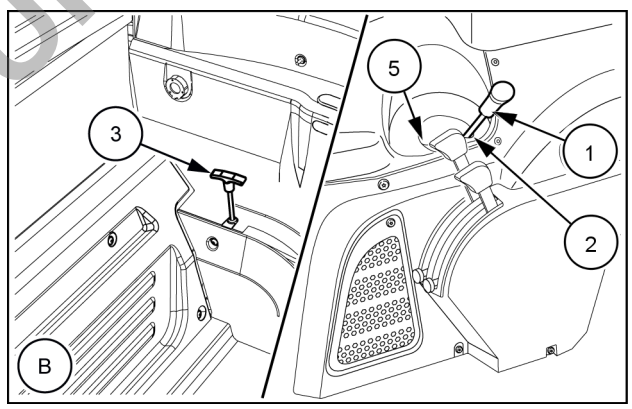
A Version without cab
B Model with cab



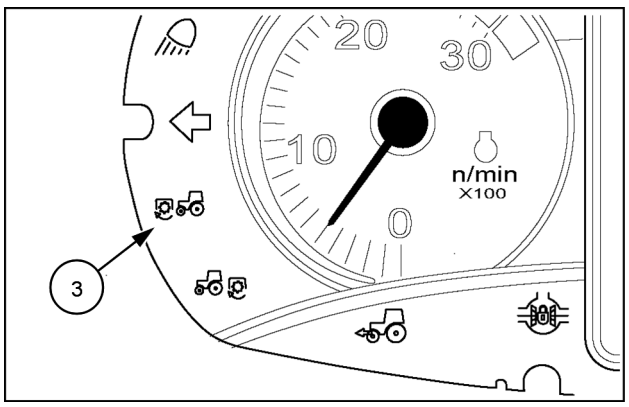
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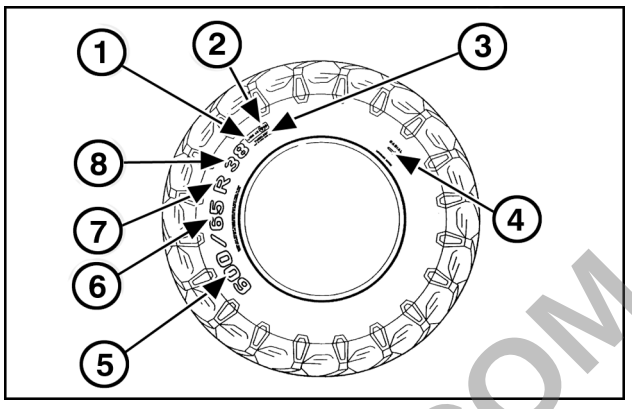
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When the power take-off is used, the amber warning indicator on the instrument cluster will blink for a few seconds the moment the maximum permissible rpm is exceeded.
To avoid damage to the power take-off, never exceed the maximum permissible rpms. Should this occur, reduce the engine rpm to come back within the required values.

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Tire marking

To indicate, dimensions, structure and specifications of use of a tire, the manufacturers have internationally adopted standard abbreviations and numbers. The drawing shows an example of the marking on a tire used for agricultural work. Example of reading the abbreviation 600/65 R 38 .



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1	157	Load index.
2	A8	Speed code. Maximum speed.
3	TUBELESS	Tubeless tires. Tires with inner tubes are marked TUBE TYPE or left blank.
4	→	The arrow shows the direction of tire travel.
5	600	Nominal cross-section width in mm.
6	65	Ratio between height and width of cross-section.
7	R	Indicates the radial structure. On a conventional tire, the R is replaced by a hyphen (-).
8	38	Rim keying diameter.

Another example of the marking on a tire: example (7.50-16 8 PR)

1	7,50	Nominal width of cross-section in inches.
2	-	Conventional structure.
3	16	Rim keying diameter.
4	8 PR	Resistance index of tire or number of ply that make up the tire. (This code is normally shown on conventional tires, whereas radial tires show the load index).

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Maintenance action	Check	Filling	Cleaning	Drain fluid	Replace	Adjust	Test	Tighten	Grease	Change fluid	Page no.
Compressor drive belt - Check - Pneumatic trailer brake belt	x										7-34
Every 300 hours											
Lift oil filters - Replace					x						7-35
Transmission oil filter - Replace - Auxiliary services					x						7-35
Oil dipstick - Check	x										7-35
Air cleaner - Cleaning			x								7-36
Four-Wheel Drive (4WD) axle - Check	x										7-37
Final drive - Check	x										7-37
Steering knuckle and king pin - Grease - (4WD)									x		7-37
Every 600 hours											
Engine - Replace Engine oil filter					x						7-38
Fuel filters - Replace					x						7-40
Wheels - Tighten							x				7-42
Driving wheel shaft - Grease - Bearing (4WD)									x		7-43
Every 1200 hours or annually											
Cab air filters - Replace					x						7-43
Cab air filters - Replace - Recirculation Filters					x						7-43
Air cleaner - Replace					x						7-44
Fuel tank - Drain fluid				x							7-44
Blowby recirculation filter - Replace					x						7-45
Every 1200 hours or two years											
Final drive - Change fluid - (4WD)										x	7-46
Transmission drive housing - Change fluid										x	7-46
Accessory belt - Replace - Alternator belt					x						7-47
Compressor drive belt - Replace - Air conditioner belt					x						7-47
Compressor drive belt - Replace - Pneumatic trailer brake belt					x						7-47
Radiator - Change fluid - Conventional coolant										x	7-48
Air dryer - Replace - Trailer pneumatic brakes air drier					x						7-50
Every two years											
Receiver-dryer - Replace					x						7-51
Every 3600 hours or four years											
Radiator - Change fluid - OAT coolant										x	7-51
Diesel Particulate Filters (DPF) - Replace					x						7-54
Electrical System											
Battery - Check	x										7-55
Fuses and Relays					x						7-57
Front light - Adjust										x	7-58
Front light - Replace					x						7-59
Fuse and relay locations											
Fuse and relay box - Replace					x						7-60

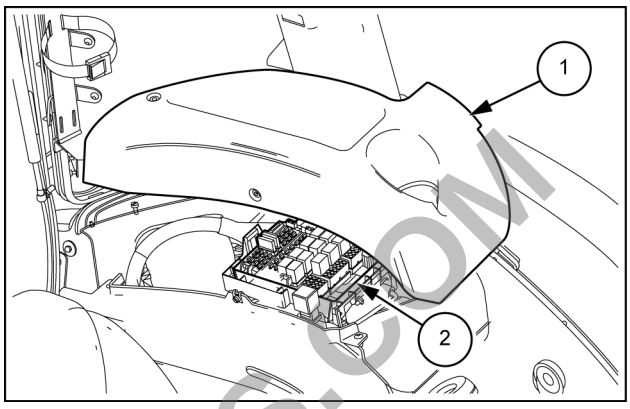
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Fuses and Relays

Main fuse box

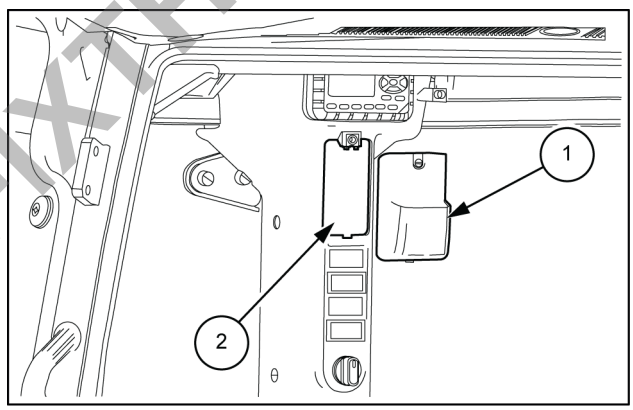
1. To access the fuses **(2)** it is necessary to remove the left-hand mudguard covering **(1)** from inside the cab, unscrewing the specific screws.



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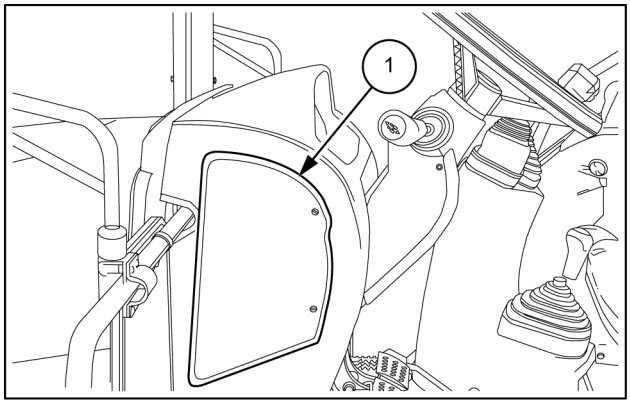
Secondary fuse box

2. To access the secondary fuse box **(2)**, remove the cover **(1)** on the right-hand pillar of the cab.



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3. On tractors with a ROPS, the fuses and relays are located on the left-hand side of the central console. To access the fuse and relay box, remove the cover **(1)**.

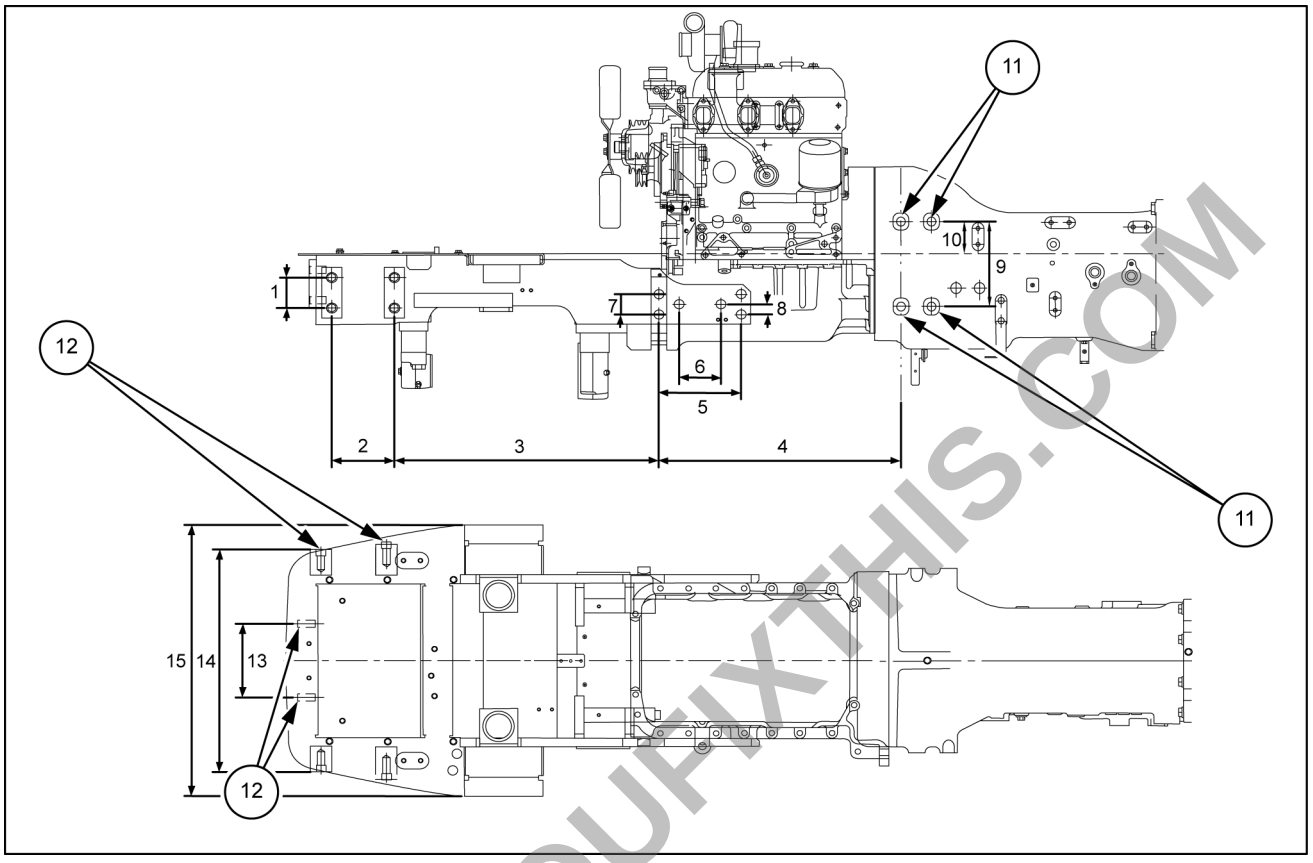


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Additional equipment attachment points



MOIL13TR02862FB 1

The tractor is provided with threaded holes on both sides for connecting implement and auxiliary equipment. The figures illustrate the available fixing holes for your version.

NOTE: *Use exclusively the holes specified in fig. when mounting auxiliary equipment. The use of different holes for auxiliary applications automatically exonerates CASE IH from all liability in relation to damage to the tractor or injury to persons, resulting from failure to observe the relative regulations.*

Reference	Dimension
1	**75 mm** (**2.95 in**)
2	**154 mm** (**6.06 in**)
3	**638.4 mm** (**25.1 in**)
4	**613.6 mm** (**24.2 in**)
5	**203.0 mm** (**8.0 in**)
6	**103.0 mm** (**4.1 in**)
7	**50.0 mm** (**2.0 in**)
8	**25.0 mm** (**1.0 in**)
9	**42.0 mm** (**1.7 in**)
10	**80.0 mm** (**3.1 in**)
13	**174.0 mm** (**6.9 in**)
14	**525.0 mm** (**20.7 in**)
15	**641.0 mm** (**25.2 in**)

Holes	Diameter	Depth
11	M 20 x 2.5	**32.0 mm** (**1.3 in**)
12	M 20 x 2.5	**42.0 mm** (**1.7 in**)

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