ORIGINAL INSTRUCTIONS

- according to Directive 2006/42/EC, Annex I, 1.7.4.1

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Farmall 95U
Farmall 105U
Farmall 115U
Tractors

OPERATOR'S MANUAL

Part Number 84498894

1st edition English

05/2012

CE

CASE IH AGRICULTURE

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Contents

1 GENERAL INFORMATION

Note to the Owner 1-1
EC Declaration of Conformity 1-2
Commission directive 2010/52/EU 1-4
Noise level 1-11
Electro-magnetic interference (EMC) 1-12
International symbols 1-13
Introduction 1-15
Operator's manual storage 1-16
Tractor intended use 1-17
Ecology and the Environment 1-19
Identification plates 1-20
Approval data plate 1-21
Component Identification 1-22

2 SAFETY INFORMATION

Safety rules 2-1
Safety information 2-2
Air conditioning safety regulations 2-6
Vehicle vibration levels 2-7
Cab guard 2-8
Machine stability 2-10
Personal protective equipment (PPE) 2-12
Tractor jacking points 2-13
Hazardous chemicals 2-14
Burn prevention 2-15
Fire or explosion prevention 2-16
Getting in and out of the machine 2-17
Emergency Exit 2-18
Wheel chocks 2-18
Safety signs 2-20

3 CONTROLS/INSTRUMENTS

ACCESS TO OPERATOR'S PLATFORM

General Information 3-1
Cab 3-2
Heating, ventilation or air-conditioning control 3-6

OPERATOR'S SEAT

Standard seat 3-8
Air seat “DELUXE” model 3-9
Air seat "PREMIUM" model 3-11
Seat belt 3-14

INSTRUCTOR'S SEAT

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2 - SAFETY INFORMATION

Safety rules

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 which, if not avoided, will result in death or serious injury.

⚠ WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION, used with the safety alert symbol, indicates a hazardous situation which, 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 which, 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

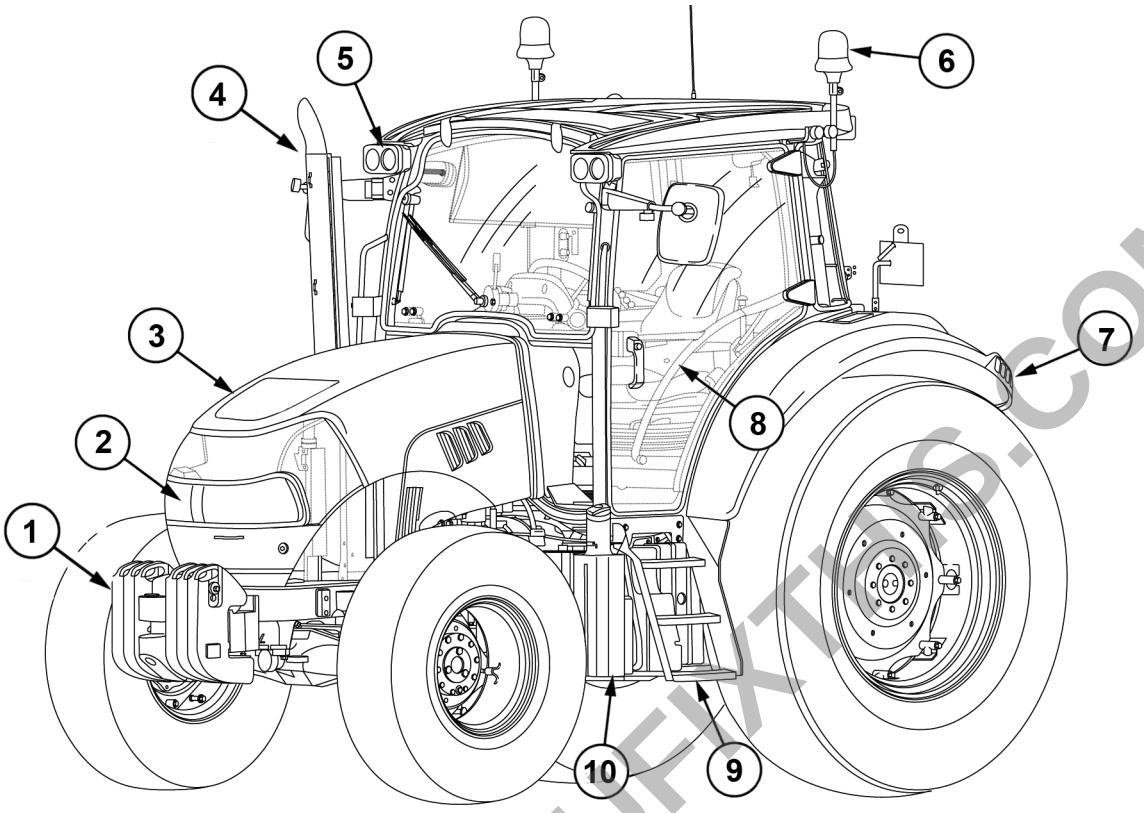
NOTE: *Note indicates additional information which clarifies steps, procedures, or other information in this manual.*

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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Component Identification



DCAPLT5CA004S1F 1

1. Ballast
2. Full/dipped beam headlights and position
3. Bonnet/engine
4. Exhaust pipe
5. Front work lights
6. Rotating beacons for driving on roads
7. PTO and lift external controls
8. Hand rail
9. Cab access ladder
10. Fuel tank

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Fault code of digital instrument

FAULT CODE	SYMBOL	Function	Acoustic signal	Warning light on
3786		Automatic regeneration of the diesel particulate filter (DPF) inhibited; manual regeneration starting only.		YES
3787		Regeneration of the diesel particulate filter (DPF) inhibited; contact your dealer immediately		YES
14200		Battery isolator switch on at key-on for more then 30 seconds	NO	YES
14015		Supply voltage at **5 V** too high	NO	YES
14016		Supply voltage at **5 V** too low	NO	YES
14021		Cranking line shorted to **+12 V**	NO	YES
14022		Cranking line shorted to GND	NO	YES
14051		Fuel sensor short to **Vcc** or open circuit	NO	YES
14052		Fuel sensor short to GND	NO	YES
14058		Seat switch closed for 25 hours	YES	YES
14093		Seat switch short to **Vcc** or open circuit	YES	YES
14094		Seat switch shorted to GND	YES	YES
14109		Electronic lift present but not configured	NO	YES
14900		Transmission module missing	NO	YES
14901		Engine module missing	NO	YES

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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.

W0047A

⚠ WARNING

Improper operation or service of this machine can result in an accident.
If you do not understand a maintenance procedure, or doubt your ability to perform a maintenance procedure correctly, see your authorized dealer.
Failure to comply could result in death or serious injury.

W0157A

Problem	Possible Cause	Correction
The engine will not start or starts with difficulty	Incorrect starting procedure	See starting procedure
	Fuel level low or empty	Check the fuel level
	Air in fuel system	Bleed fuel system
	Engine oil viscosity not right	Use oil of right viscosity
	Fuel not suitable for ambient temperature	Use correct type of fuel for temperature conditions
	Fuel system contaminated	Clean system
	Fuel filter clogged	Replace filter element
	Fuel injector fault	Contact your dealer
	Battery isolator activated, or fuse and relay faulty	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
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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FLUIDS AND LUBRICANTS

Lubrication system - Change fluid

	QUANTITY	RECOMMENDED CASE IH AGRICULTURE PRODUCTS	SPECIFICATION CASE IH AGRICULTURE	INTERNATIONAL SPECIFICATION
Cooling system:	**16 l** (**4.2 US gal**)	Mixture of water and antifreeze **CASE IH AKCELA PREMIUM ANTI-FREEZE** at **50 %** + **50 %**	**NH 900 A**	-
Windscreen wash reservoir	**2 l** (**0.5 US gal**)	Water and Detergent liquid	-	-
Fuel tank:	**155 l** (**40.9 US gal**)	Decanted, filtered diesel fuel	-	-
Engine sump:		**CASE IH AKCELA UNITEK CJ-4 ENGINE OIL SAE 10W-40**	**MAT3521**	**API CJ-4 ACEA E7/E9**
Minimum	**6.4 l** (**1.7 US gal**)			
Maximum	**8.1 l** (**2.1 US gal**)			
Brake control circuit	**0.7 l** (**0.18 US gal**)	**CASE IH AKCELA LHM FLUID**	**NH 610 A**	**ISO 7308**
Front axle:	**4.5 l** (**1.2 US gal**)	**CASE IH AKCELA NEXPLORE™ FLUID**	**NH 410 B**	**API GL4 ISO 32/46 SAE 10W-30**
Final drives (each)	**1.0 l** (**0.3 US gal**)			
Transmission bevel drive final drives and brakes gearbox hydraulic lift power take−off hydrostatic steering	**63 l** (**16.6 US gal**)			
Front hubs	**-**	**CASE IH AKCELA MULTI-PURPOSE GREASE 251H EP**	**NH 710 A**	**NLGI 2**
Grease fittings	**-**			
Air-conditioning refrigerant	**1.3 l** (**0.3 US gal**)	**-**	**-**	**R134**
Air-conditioning compressor oil	**0.185 l** (**0.05 US gal**)	**-**	**-**	**SP10**

Sulfur in fuel

The engine oil change frequency is given in this section. However, locally available fuel may have a high sulphur content, in which case the engine oil change period (as noted in this Section) should be adjusted as follows:

Sulphur content	Oil Change Period
less than **0.5 %**	normal
0.5 - 1.0 %	half the normal
more than **1.0 %**	one quarter normal

ATTENTION: *Avoid using fuel with sulphur content higher than **1.3 %***

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MAINTENANCE CHART

Maintenance Chart

Interval	Page Nr.	Maintenance Action	Nr. of pts	Check	Fill up	Adjustment	Cleaning	Drain fluid	Grease	Replace	Tighten	Change fluid	Test
As Required	**7-14**	Radiator expansion tank		X									
	7-14	Washer fluid reservoir			X								
	7-14	HVAC - Drier filter		X									
	7-15	Handbrake				X							
	7-15	Distributor oil recovery cup		X									
	7-15	Radiator		X									
	7-16	Brakes				X							
	7-16	Clutch adjustment				X							
	7-17	Compressor belt		X									
	7-17	Machine lights		X									
	7-17	Tyre pressure		X									
On display of a warning message	**7-18**	Dry air cleaner - External cartridge					X						
	7-18	Brake fluid level			X								
	7-19	Drain off fuel filter water						X					
Every 10 hours or once a day	**7-20**	Engine oil level		X									
Every 50 hours	**7-21**	Rear wheel hub							X				
	7-21	Lift and linkage							X				
	7-21	Front axle							X				
Every 100 hours	**7-22**	Air-conditioner condenser					X						
	7-22	Transmission oil cooler					X						
	7-22	Intercooler					X						
	7-23	Cab air filters					X						
	7-23	Cab recirculated air cleaner					X						
Every 300 hours	**7-24**	Hydraulic circuit oil filter								X			
	7-24	Auxiliary services oil filter								X			
	7-25	Dry air cleaner - External cartridge					X						
	7-25	Alternator belt		X									
	7-26	Transmission and hydraulic lift		X									
	7-26	Front axle oil		X									
	7-26	Front axle final drives							X				
	7-27	Front axle stub axle							X				
	7-27	Towing hook							X				
	7-27	Battery electrolyte level		X									
Every 600 hours	**7-28**	Change engine oil and filter								X			
	7-29	Fuel filter replacement								X			
	7-29	Fuel prefilter					X						
	7-30	Wheel bolt torque									X		

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STARTING THE UNIT

Starting the engine

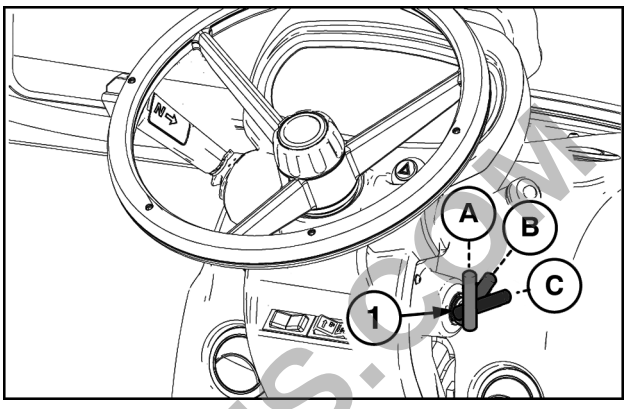
Starter switch

To obtain the three starter key **(1)** functions, turn the key to the following positions:

A. Position "STOP", No power to circuits (key can be removed). Engine stopped: automatic activation of fuel injection cut-off.

B. Standby for engine start up. Operation of the indicators, instrument cluster and pre-heating glow plugs. Power supplied to various circuits.

C. Engine start-up: when released, the key returns automatically to position **(B)**.



DCAPLT5NE001S4A 1

NOTE: *If the engine fails to start on the first attempt, it is necessary to turn the starter key back onto "STOP" and repeat starting.*
To avoid excessively running down the battery, do not make more than six attempts to start the engine

Starting the engine

1. If the tractor has remained inactive for long time or if it is being started for the first time at low ambient temperature and the engine fails to start after the first few attempts it is necessary to bleed the fuel system as described in the maintenance section of the "Renewing the fuel filters" chapter.
2. Press the clutch pedal and move the shuttle and power take−off (PTO) control levers into the neutral position to turn on the start enabling switch.
3. Move the throttle lever to around the half way position.
4. Turn the starter key to position **(C)** figure **1**. Release the key as soon as the engine starts.

NOTICE: *If one of the warning lights illuminates to signal a fault, check and repair the faulty part. If the warning light continues to signal a fault, have the machine checked by your dealer.*

*Before accelerating or starting the tractor, allow the engine to idle at **1000 RPM** for 30 seconds to ensure that the turbocharger is correctly lubricated.*

When starting the engine after extended periods of non-use, avoid using the hydraulic system immediately. All the moving parts need to be lubricated properly before they are subjected to full load.

Engine speed

NOTICE: *Never use the engine continuously for a long time at speeds between **2500 - 3000 RPM** (yellow area on the speedometer) to avoid damage to the engine and definitely never exceed **3000 RPM** (red area on the speedometer). For appropriate use, always operate under the speed corresponding to **2300 RPM**.*

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Technical data

ENGINE SPECIFICATION	
Engine	**CNH**
Farmall 90U	**F5DFL413C*A003**
Farmall 100U	**F5DFL413B*A006**
Farmall 110U	**F5DFL413A*A002**
Emission level	**Tier 4**
Clutch	**305 mm** (**12 in**)
Intake	Turbocharged
Number of cylinders	**4**
Bore and stroke	**99 mm** (**3.9 in**) X **110 mm** (**4.3 in**)
Displacement	**3400 cm³**
Compression ratio	**17± 0,5:1**
Power at the flywheel **(ISO14396/ECE R120)**	
Farmall 90U	**73 kW** (**99 Hp**)
Farmall 100U	**79 kW** (**107 Hp**)
Farmall 110U	**84 kW** (**114 Hp**)
Torque increase:	
Farmall 90U	**51 %**
Farmall 100U	**49 %**
Farmall 110U	**42 %**
Corresponding rpm	**2300 RPM**
Maximum torque	**1500 RPM**

FUEL SYSTEM

Double-diaphragm fuel pump on injection pump supply line.

Rotary injection pump with centrifugal speed governor, operating at all speeds and incorporating automatic advance: BOSCH VE-type.

Fuel filtering:

- mesh filter in the fuel pump
- replaceable cartridge filter on the injection pump feed line with water separator

LUBRICATION

Forced, by gear pump.

Oil filtration: forced through pump intake mesh and replaceable cartridge filter on engine intake.

Lubrication pressure with engine hot and at max. revs: **3.8 bar** (**55.1 psi**)

Engine oil cooled by a heat exchanger using engine coolant.

COOLING

Water, forced circulation by centrifugal pump

Radiator with 4 lines of vertical copper pipes.

Suction fan, attached to the pulley.

Water circulation from engine to radiator thermostatically controlled.

TRANSMISSION

Clutch

Dry **12 in** double-plate, with separate controls: pedal operation for gearbox and hand lever for power take-off. Disc material: **cerametallic** .

GEARBOX

Permanently engaged helical mesh with 4 gear ratios.

Full synchromesh for all gears.

Range gear cascade connection with three forward gear ranges and one reverse gear range.

REAR AXLE

9/43 bevel gear pair ratios and differential with pedal controlled locking device and automatic release. Epicyclic final drives.

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PTO

Clutch calibration

⚠ WARNING

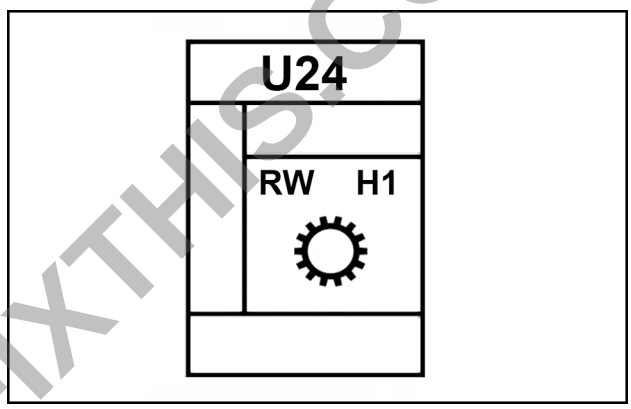
Unexpected machine movement!
The machine could move automatically during calibration. Park on a flat surface, engage the parking brake, and be sure that the area around the machine is clear before starting the calibration process. Failure to comply could result in death or serious injury.

W0300A

Transmission Power Shuttle

This procedure calibrates all clutches, determining the current required to apply the clutch at the necessary engagement pressure.
If at any time during the calibration procedure the system detects one of the abnormal conditions described in the procedure below, a two-digit number beginning with the letter **"U"** is displayed, it is a standard error code. Before doing the calibration it is necessary to remedy the trouble.

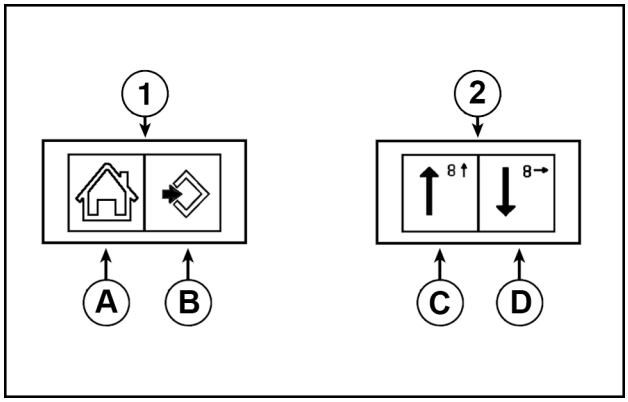
NOTE: *The list of error codes is shown below.*



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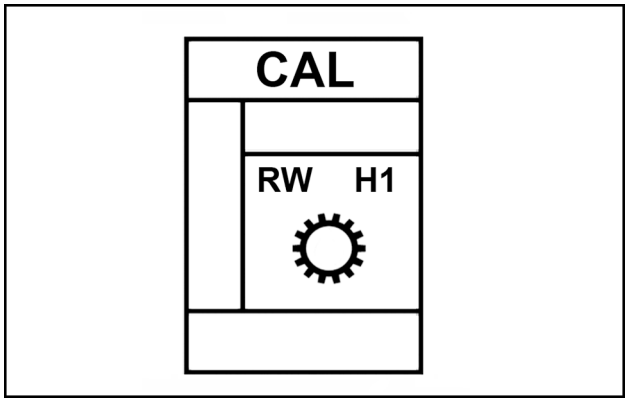
1. Park the tractor on level ground and engage the park brake. The tractor can move during this procedure so ensure that the area around the tractor is clear.
   To enter clutch calibration mode press switch **(1)** on symbol **(A)** and power up the panel, then press the symbol **(B)** and start the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

NOTE: *THE SETTING 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 speed 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).

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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

This Use and Maintenance Manual has been produced to provide the user with information, documents and practical instructions.

Read the operator’s manual carefully before using the tractor. This is particularly important if the tractor is to be used correctly as it contains all the information required on the layout and use of the tractor controls.

Even if you already have experience in using other makes of tractor, the manual must be studied carefully and thoroughly.

Never start the engine and tractor if you have not already familiarised yourself with all the controls. It is too late to learn once the tractor is moving.

If you have any doubts about any functional aspect of the tractor, contact you CASE IH AGRICULTURE dealer.

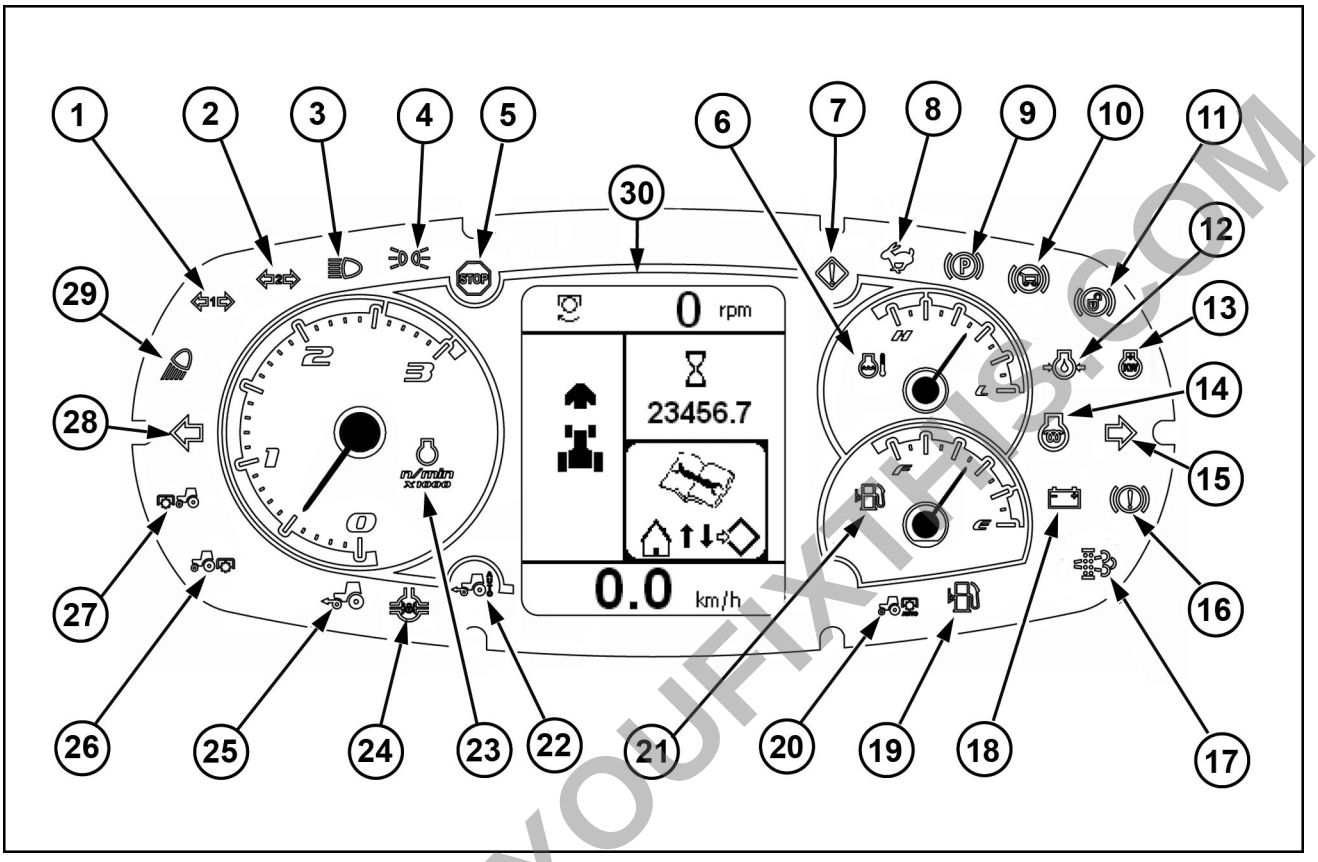
The dealer can provide skilled personnel, original spare parts and the necessary equipment to carry out your service requirements.

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FORWARD CONTROLS

Instrument panel



DCAPLT5NE076S3F 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

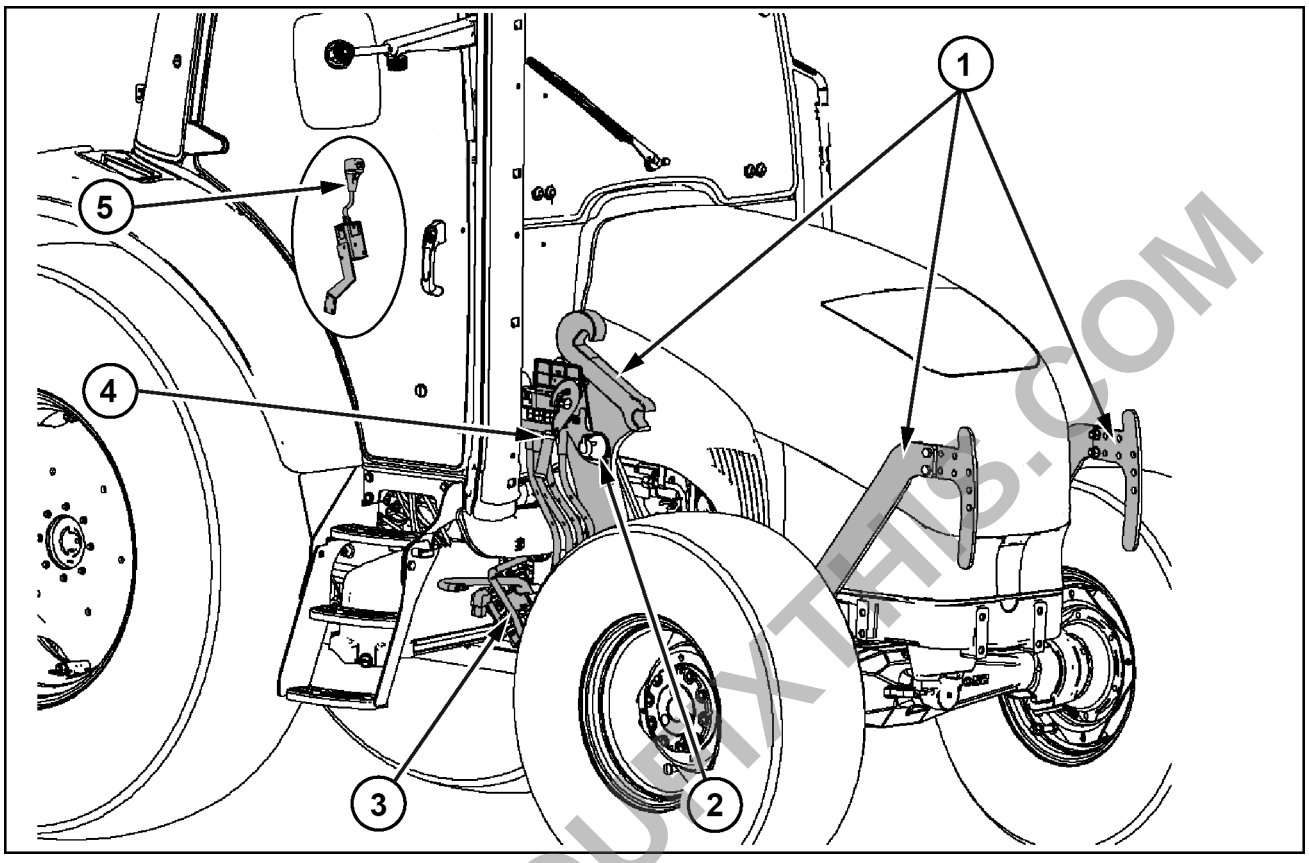
3 **Full−beam headlights (blue)**
This indicator light will illuminate when the tractor lights are switched to high beam.

4 **Side lights (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.

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Front-end loader



DCAPLT5NE04S10F 1

Your tractor can on request be fitted for the front loader connection.

The kit comprises:

1. Support for loader connection.
2. 7-pin power socket.
3. Lateral control valve with double body.
4. Quick couplers to operate the control valve.
5. Joystick

The loader is controlled by the lever (joystick) **(5)**, installed in the cab to the right of the driver's seat.

NOTE: *For installation of the front loader and its operation, refer to the manual supplied by the manufacturer of the loader.*

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5 - TRANSPORT OPERATIONS

ROAD TRANSPORT

Transporting the machine

⚠ WARNING

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

W0152A

⚠ WARNING

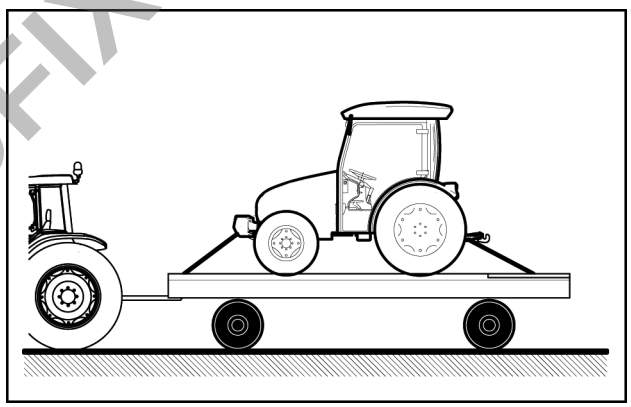
Transport hazard!
Collision of high speed road traffic and slow moving machines can cause death or personal injury. On roads use transport lighting according to local laws. Make sure the Slow Moving Vehicle (SMV) emblem is visible.
Failure to comply could result in death or serious injury.

W0244A

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

Engage the parking brake.

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



DCUTLNEIT012S5A 1

ATTENTION: *Do not hook or connect chains around the front axle drive shaft, the power steering cylinders, the front axle itself or other parts of the tractor which could be damaged either by the chains or excessive strain.*

On models fitted with the turbocharger, cover the exhaust outlet to prevent the turbocharger rotating in the wind, resulting in possible damage to the bearings. The turbocharger turbine must be prevented from rotating freely (with the engine off), as the shaft bearings will not be lubricated.

RECOVERY TRANSPORT

Towing the tractor

⚠ WARNING

Loss of control!
Only tow at safe speeds. Use caution when making corners or meeting traffic.
Failure to comply could result in death or serious injury.

W0126A

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Index

1800 hours Service 7-
Fuel injectors - Check 7-35

2WD or 4WD 6-
Four-wheel drive with electro-hydraulic control 6-1

ACCESS TO OPERATOR'S PLATFORM 3-
Cab 3-2
General Information 3-1
Heating, ventilation or air-conditioning control 3-6

ACCESSORIES 10-
Front-end loader 10-9
Hydraulic valve for trailer brakes 10-11
Joystick for control valves 10-10
Mechanical trailer brake bracket 10-13
Radio 10-1

ALARM(S) 8-
Alarms 8-8
Display warnings overview 8-9

As required 7-
Air conditioning - Dehydration filter 7-14
Brakes - Adjust 7-16
Clutch adjustment 7-16
Compressor belt 7-17
Distributor oil recovery pan 7-15
Handbrake 7-15
Machine lights 7-17
Radiator - Check 7-15
Radiator expansion tank 7-14
Tyre pressure 7-17
Windscreen washer tank 7-14

At warning message display 7-
Brake fluid level 7-18
Dry air filter - External cartridge 7-18
Fuel filter water drain 7-19

BALLAST 6-
Liquid Ballast 6-56
Metal ballast 6-55
Safety rules 6-55

COMMISSIONING THE UNIT 4-
Basic operating safety rules 4-1

CONTROLS/INSTRUMENTS 3-
Activating/deactivating buzzer 3-39
Adjusting the dashboard/display brightness 3-32
Air seat "PREMIUM" model 3-11
Air seat “DELUXE” model 3-9
Battery disconnect switch 3-25
Cab 3-2
Cab controls - Control identification 3-29
Calibrating speed 3-34
Calibrating tool width 3-36
Console Left-hand console - Localisation overview 3-24
Console Right-hand console - Localisation overview 3-26

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Transmission speed table 12 x 12 with "HI-LO" (24 x 24) 4-17

5 TRANSPORT OPERATIONS

ROAD TRANSPORT

Transporting the machine 5-1

RECOVERY TRANSPORT

Towing the tractor 5-1

6 WORKING OPERATIONS

2WD or 4WD

Four-wheel drive with electro-hydraulic control 6-1

DIFFERENTIAL LOCK

Differential lock hydraulic control - Operating 6-2

REMOTE VALVES

General safety rules 6-3
Operation 6-3
Configurable valves with detent 6-6
Single/double action hydraulic valves 6-10

POWER TAKE OFF (PTO)

Safety rules 6-11
General 6-12
Operating Instructions 6-13

ELECTRONICALLY CONTROLLED HYDRAULIC LIFT

Safety precautions 6-18
Header/Attachment height system - Operating 6-19
Operating Instructions 6-24

THREE POINT HITCH

Three-point linkage 6-29
Quick coupler 6-32
Additional equipment attachment points 6-34

TOWBAR

Safety rules 6-35
Swinging drawbar 6-35

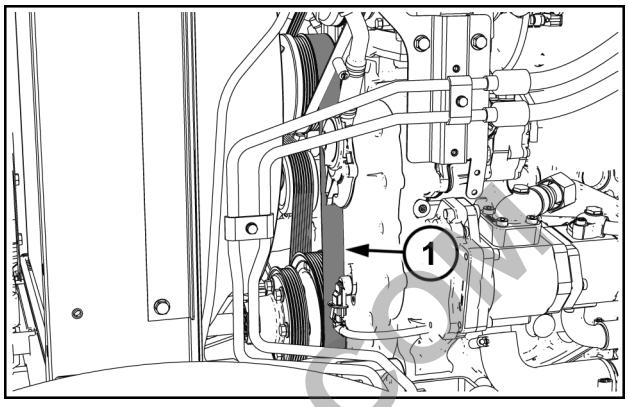
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Compressor belt

1. At the start of each season, check that the belt **(1)** is not cracked.

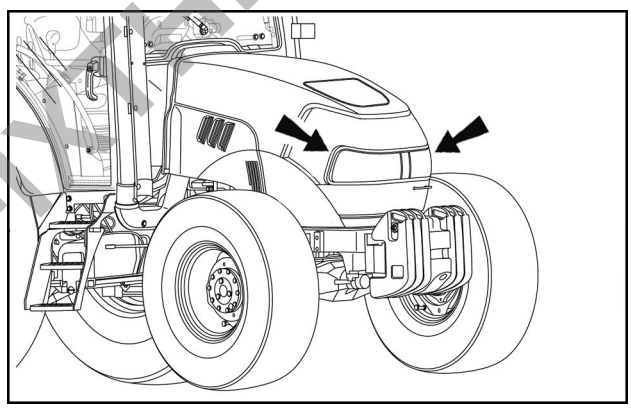
NOTE: *If the belt shows any sign of trouble, replace with a new belt.*



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Machine lights

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

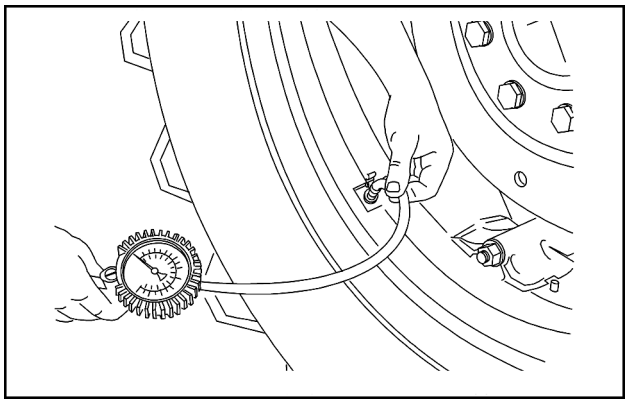


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Tyre pressure

Tyre pressure

1. Connect a pressure gauge to the pressure relief valve and check it 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. See the "Wheels and Tyres" chapter



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

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