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Farmall 75N
Farmall 85N
Farmall 95N
Farmall 105N
Tractors

OPERATOR'S MANUAL

Part number 84518062
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February 2012

CASE IH AGRICULTURE

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2 - SAFETY INFORMATION

Safety rules and signal word definitions [24481340]

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 decals, 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. The color associated with DANGER is RED.

⚠ WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury. The color associated with WARNING is ORANGE.

⚠ CAUTION, used with the safety alert symbol, indicates a hazardous situation which, 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 which, if not avoided, could result in machine 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 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.*

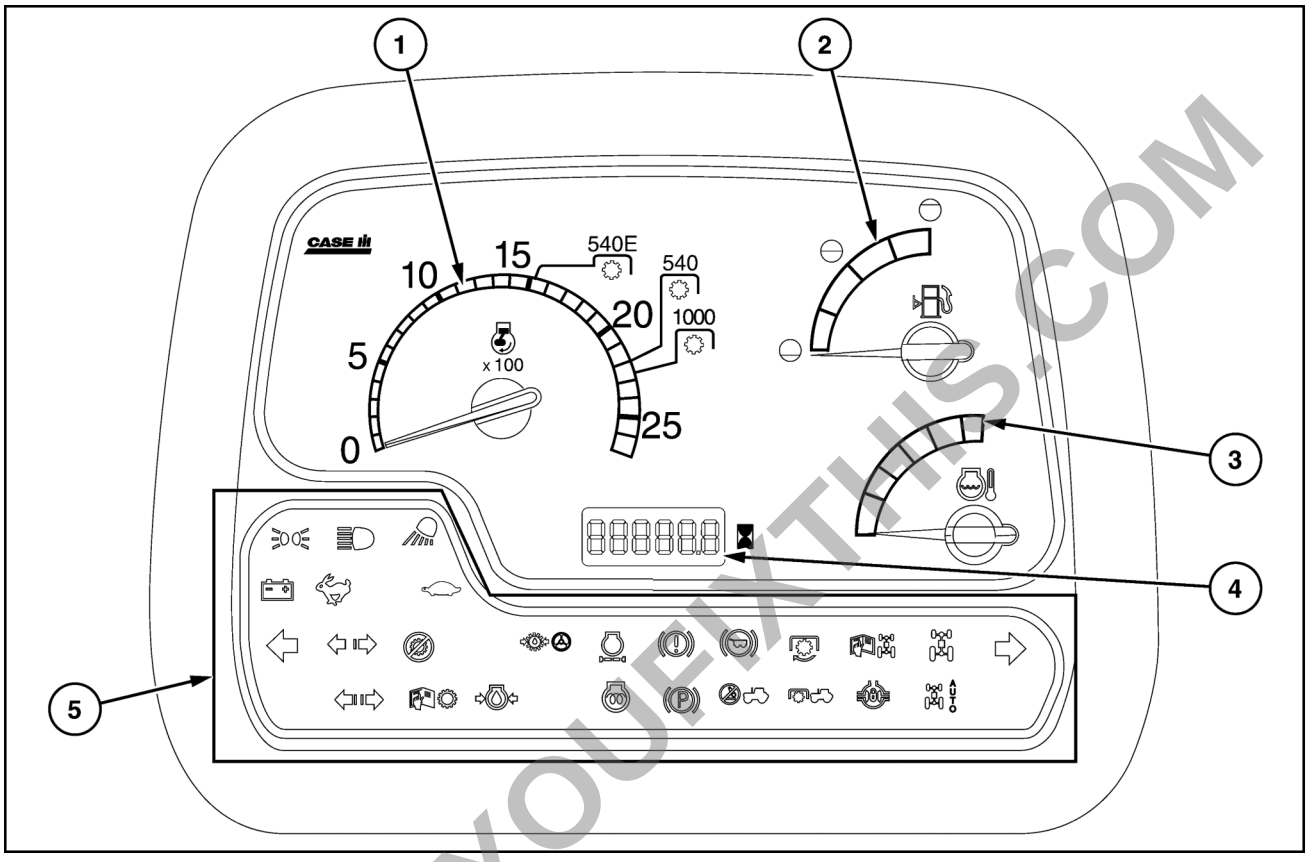
Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

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FORWARD CONTROLS

Analogue dashboard [24328222]



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1. Tachometer
2. Fuel gauge
3. Engine coolant temperature gauge
4. Hours worked counter
5. LED indicators to signal machine service status

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6 - WORKING OPERATIONS

GENERAL INFORMATION

Four-wheel drive with electrohydraulic actuation [25394333]

Using four-wheel drive

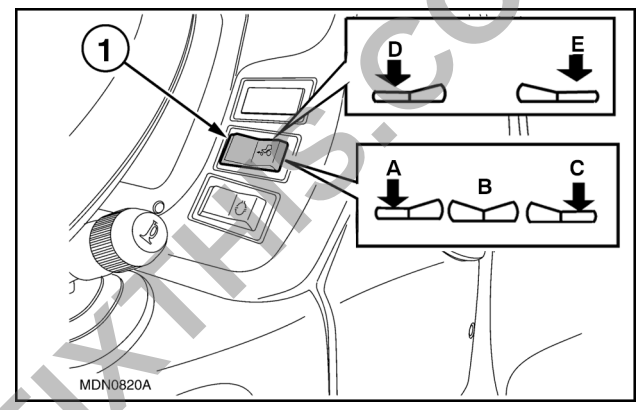
Front−wheel drive can increase the tractor's grip on the surface: the benefits of this are particularly noticeable when working on uneven, muddy or slippery surfaces, on ploughed ground or in difficult conditions.

Electrohydraulic four−wheel drive (standard)

Engage four−wheel drive by pressing button **(1)** fig. **1** onto **(E)**.

In this position, front−wheel drive will be permanently engaged; indicator **(1)** fig. **2** will illuminate to show that front−wheel drive is engaged. To disengage, press the button to position **(D)** once more.

NOTE: *With the standard four wheel drive, the switch **(1)** fig. **1** has only the two positions **(D)** and **(E)**.*

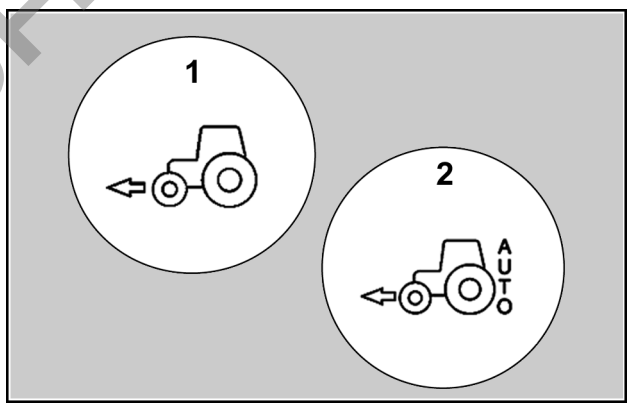


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Automatic electrohydraulic four−wheel drive (on request)

By switching button **(1)** fig. **1** to position **(C)** indicator **(2)** fig. **2** will illuminate, signalling that automatic four−wheel drive has been selected. Four−wheel drive engagement will be signalled by indicator **(1)** fig. **2** on the control panel. This automatic function disengages four−wheel drive under the following conditions:

- with speed above **15 km/h** (**9.3 mph**);
  or
- with steering angle greater than **30 °**



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To disengage automatic operation, press the push−button to position **(A)** or **(B)** again.

- position **(A)**: four−wheel drive always engaged;
- position **(B)**: four−wheel drive always disengaged;
- position **(C)**: four−wheel drive is automatically engaged and disengaged.

NOTE: *It is recommended to use automatic four− wheel drive when present.*

ATTENTION: *Four−wheel drive is engaged automatically whenever the brake pedals are operated at the same time, irrespective of the selection made with both versions. In this case only the indicator **(1)** stays on fig. **2**.*

NOTE: *Do not use four−wheel drive when driving on roads, as this increases wear on the front tires.*

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MAINTENANCE CHART

Maintenance Chart [29591445]

Interval	Page Nb.	Maintenance Action	Nb. of pts	Check	Level make up	Adjust	Cleaning	Tire inflating	Tighten	Drain fluid	Filling	Grease	Change fluid
AS REQUIRED	**7-15**	Radiator expansion tank		X									
	7-15	Windscreen washer tank			X								
	7-15	Road light		X									
	7-16	Road light		X									
	7-16	Clutch pedal adjustment				X							
	7-16	PARKING BRAKE				X							
	7-17	Radiator					X						
	7-17	Tire pressure						X					
	7-17	Wheel nuts torque							X				
	7-18	Brake pedals		X									
AT WARNING MESSAGE DISPLAY	**7-19**	Engine air filters					X						
		Fuel filter water drain								X			
		Fuel filter water drain								X			
	7-21	Brake fluid level									X		
EVERY 10 HOURS OR EACH DAY	**7-23**	Engine oil level		X									
EVERY 50 HOURS	**7-24**	Rear wheel hub										X	
	7-24	Lift and linkage										X	
	7-24	2WD steering cylinder										X	
		4WD steering cylinders										X	
	7-25	2WD front axle pivot										X	
	7-25	4WD front axle pivot										X	
	7-26	2WD left hand stub axle										X	
	7-26	2WD right hand stub axle										X	
		4WD propeller shaft										X	
		Front lift arms shaft										X	
		Front PTO coupling										X	
EVERY 100 HOURS	**7-27**	Transmission oil cooler					X						
	7-27	Air conditioning condenser					X						
	7-27	Intercooler					X						
	7-28	Cab air filter					X						
	7-28	Cab recirculated air filter					X						

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TROUBLESHOOTING ENGINE [24795578]

⚠ 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.

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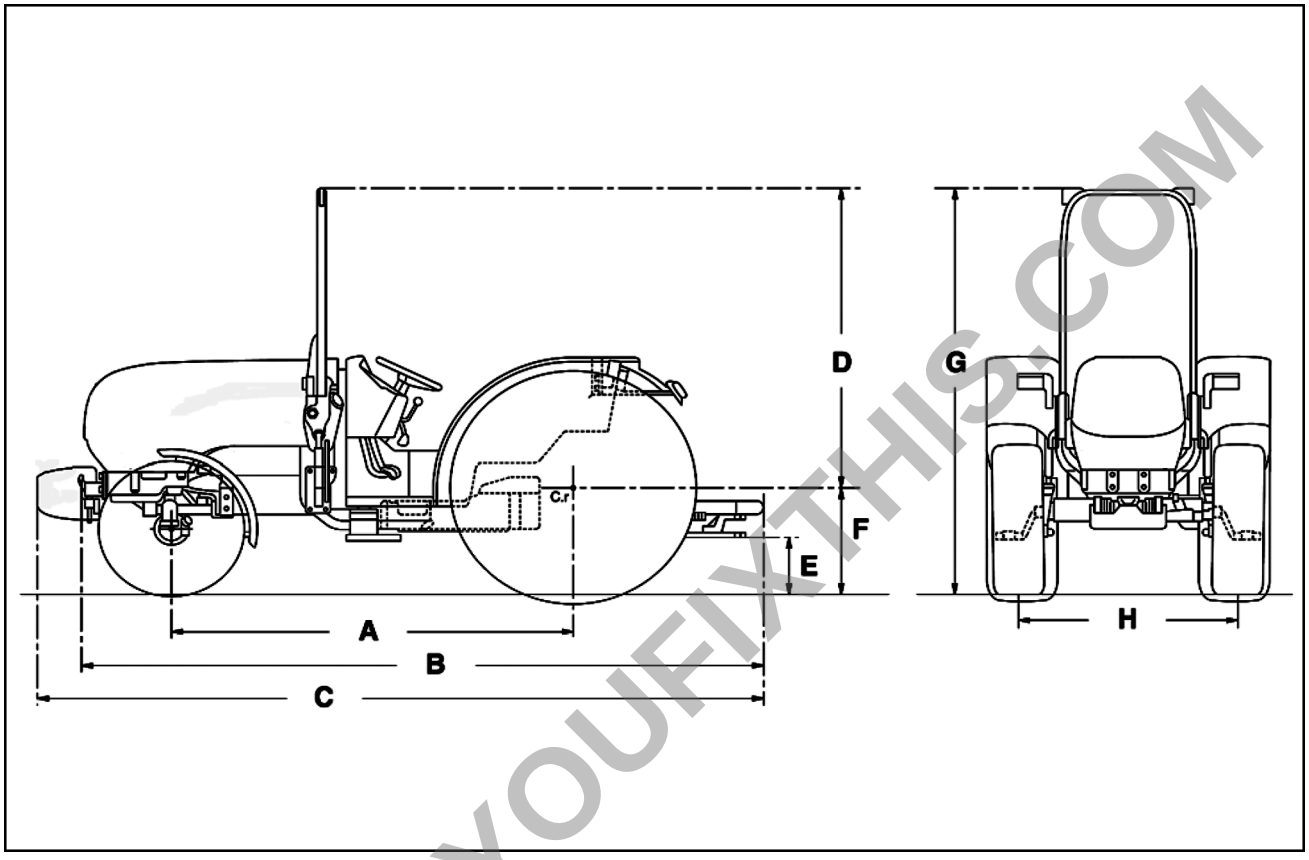
Problem	Possible Cause	Correction
The engine will not start or starts with difficulty	Incorrect starting procedure	See starting procedure
	Fuel level low or empty	Check the fuel level
	Air in fuel system	Bleed fuel system
	Engine oil viscosity not right	Use oil of right viscosity
	Fuel not suitable for 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
Excessive oil consumption	Oil level too high	Reduce oil level
	Oil viscosity wrong	Use oil of correct viscosity
	Oil leaking	Repair leaks
	Breather pipe filter clogged	Replace breather pipe filter
Engine overheating	Radiator core clogged	Clean radiator

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9 - SPECIFICATIONS

Technical data [28932995]



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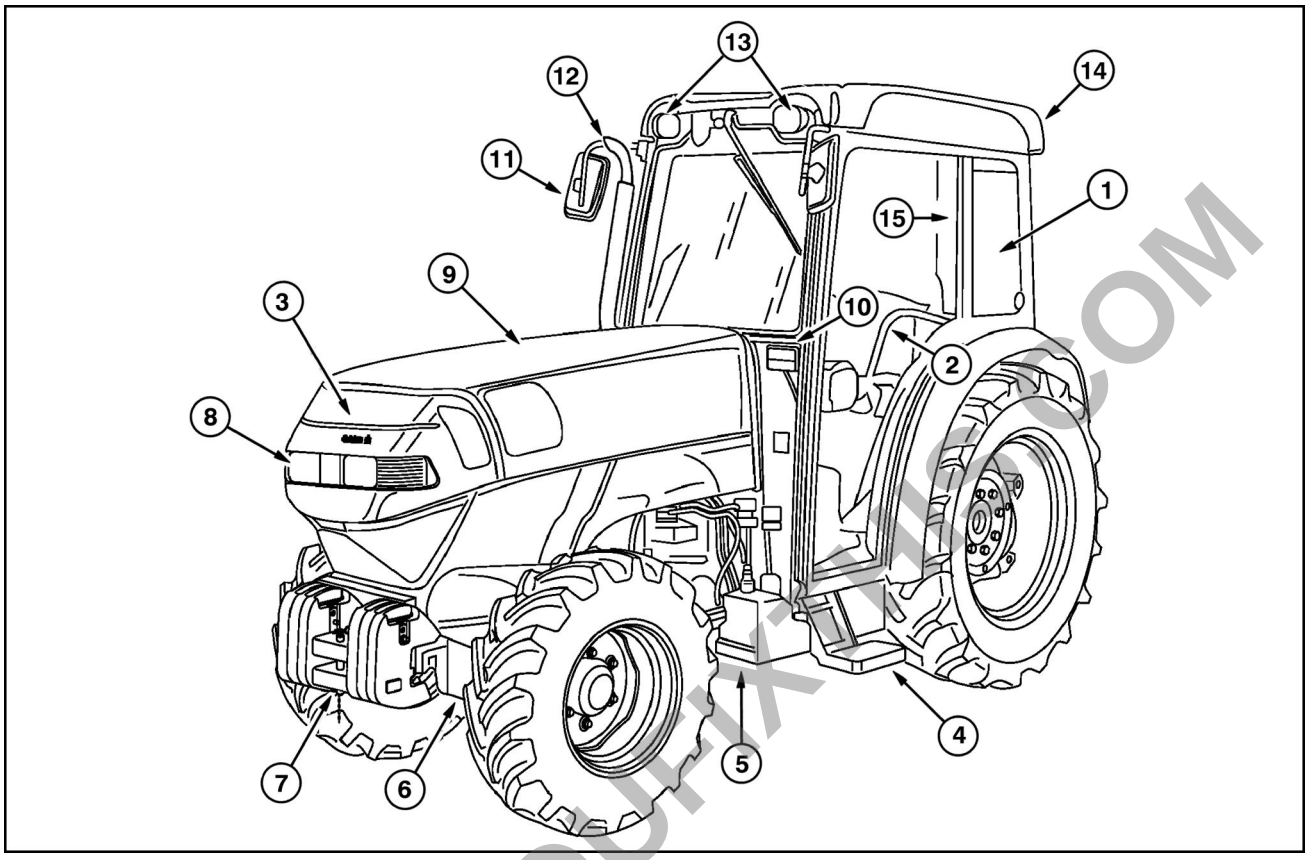
DIMENSIONS OF 2WD MODELS WITH ROLL BAR

Dimensions	75N - 85N		95N - 105N	
	mm	in	mm	in
A	**2078,5**	**81.83**	**2165,5**	**85.25**
B	**3558,5**	**140.09**	**3645,5**	**143.52**
C	**3792,5**	**149.31**	**3879,5**	**152.73**
D	**1749,5**	**68.87**	**1835,5**	**72.26**
E - min.	**290**	**11.41**	**290**	**11.41**
E - max	**350**	**13.77**	**350**	**13.77**
F - min. with **380/70 R 20**	**525**	**20.66**	**525**	**20.66**
F - max. with **14.9 R 28**	**650**	**25.59**	**650**	**25.59**
G - min.	**2274,5**	**89.54**	**2360,5**	**92.93**
G - max	**2399,5**	**94.46**	**2485,5**	**97.85**
H - front track setting (tire **6.00 - 16**)	**1016** to **1116**	**39.99** to **43.93**	**1016** to **1116**	**39.99** to **43.93**
H - rear track setting (tire **13.6 R 28**)	**926** to **1350**	**36.45** to **53.14**	**926** to **1350**	**36.45** to **53.14**

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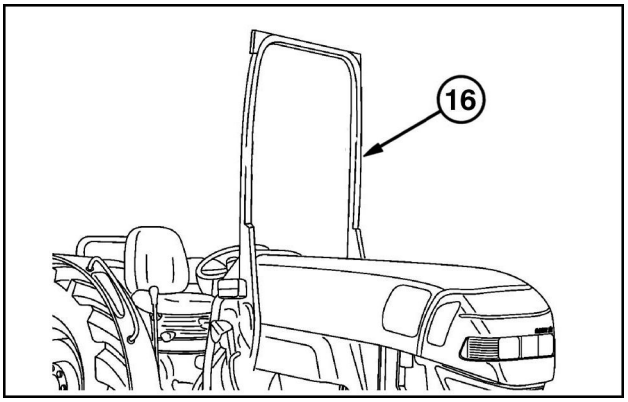
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Component Identification [24245258]



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1. Cab
2. Hand rail
3. Fuel tank
4. Steps
5. Transmission
6. Front axle
7. Ballast
8. Front light
9. Hood/Engine
10. Indicator light
11. Rear view mirror
12. Exhaust stack
13. Front work lights
14. Rear work lights
15. Rear widow emergency exit
16. R.O.P.S. (Roll Over Protective Structure)



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8 - TROUBLESHOOTING

FAULT CODE RESOLUTION

Display fault codes [24724576]

Fault code	Symbol	Function	Audible warning	Indicator (Amber) on
14001		Rear PTO short to VCC	NO	YES
14002		Rear PTO short to GND	NO	YES
14011		Engine speed sensor short to VCC or open circuit	YES	YES
14012		Engine speed sensor short to GND	YES	YES
14015		5 V supply voltage too high	NO	YES
14016		5 V supply voltage too low	NO	YES
14021		Cranking line shorted to VCC	NO	YES
14022		Cranking line shorted to GND	NO	YES
14041		Engine coolant temp short to VCC or open circuit	YES	YES
14042		Engine coolant temp short to GND	YES	YES
14051		Fuel level sensor short to VCC or open circuit	NO	YES
14052		Fuel level sensor short to GND	NO	YES
14058		Seat switch closed over 25 hours	YES	YES
14091		Transmission out speed short to VCC	NO	YES
14092		Transmission out speed short to GND	NO	YES
14093		Seat switch short to VCC or open circuit	YES	YES

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Fluids and lubricants [44497083]

COMPONENT TO BE FILLED OR TOPPED UP	QUANTITY		RECOMMENDED CASE IH AGRICULTURE PRODUCTS	SPECIFICATION CASE IH AGRICULTURE	INTERNATIONAL SPECIFICATION
	l	UK gal			
Cooling system, models with no cab:	**10**	**2.64**	Mixture of water and antifreeze **CASE IH AKCELA PREMIUM ANTI-FREEZE** at **50 %** + **50 %**	**NH900A**	-
Cooling system, models with cab:	**12**	**3.17**			
Windscreen wash reservoir	**2**	**0.53**	Water & cleaning liquid	**-**	**-**
Fuel tank:	**77**	**20.34**	Decanted, filtered diesel fuel	**-**	**-**
Reduced fuel tank:	**67**	**17.70**	Decanted, filtered diesel fuel	**-**	**-**
Engine oil sump: **75N - 85N**	**8,5**	**2.25**	**CASE IH AKCELA NO. 1™ ENGINE OIL**	**NH330H SAE 15W40 NH324H SAE 10W30**	**API CH-4 ACEA E7/E5**
Engine oil sump: **95N - 105N**	**9,5**	**2.51**			
Brakes circuit	**0,5**	**0.13**	**CASE IH AKCELA LHM FLUID**	**NH610A**	**ISO 7308**
Brake circuit with front brakes	**0,7**	**0.18**			
Front axle housing:	**4**	**1.06**	**CASE IH AKCELA NEXPLORE™ FLUID**	**NH410B**	**API GL-4 ISO 32/46 SAE 10W30**
Front axle final drives (each)	**0,6**	**0.16**	**CASE IH AKCELA GEAR 135 H EP 80W-90**	**NH520A**	**API GL-5 MIL-L-2105 D SAE 80W90**
Rear axle (bevel drive, final drives and brakes), transmission, hydraulic lift, power take-off and hydrostatic steering:	**44**	**11.62**	**CASE IH AKCELA NEXPLORE™ FLUID**	**NH410B**	**API GL-4 ISO 32/46 SAE 10W30**
Grease fittings			**CASE IH AKCELA MULTI-PURPOSE GREASE 251H EP**	**NH710A**	**NLGI 2**

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3 - CONTROLS/INSTRUMENTS

ACCESS TO OPERATOR'S PLATFORM

Cab [24361942]

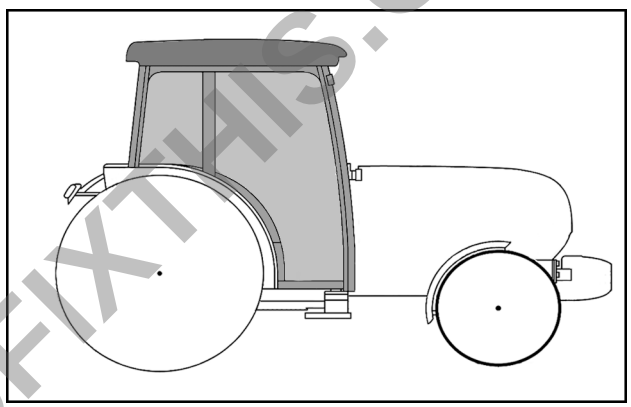
⚠ WARNING

Misuse hazard!
The cab is an integral part of the machine's structure. DO NOT repair, weld, or straighten the cab. Contact your Dealer and follow their instructions to avoid reducing the structural integrity of the machine.
Failure to comply could result in death or serious injury.

W0045B

The cab is designed for operator comfort and convenience. The side panels. roof and flooring are soundproofed to reduce noise to the minimum. The cab is available in two versions:
- With heating and ventilation.
- With air conditioning.

The cab must be replaced in the event of overturning.
All the internal parts, such as the operator's seat, including any seat belts, must be carefully checked and must show no sign of any damage whatsoever.
All damaged parts must be replaced.

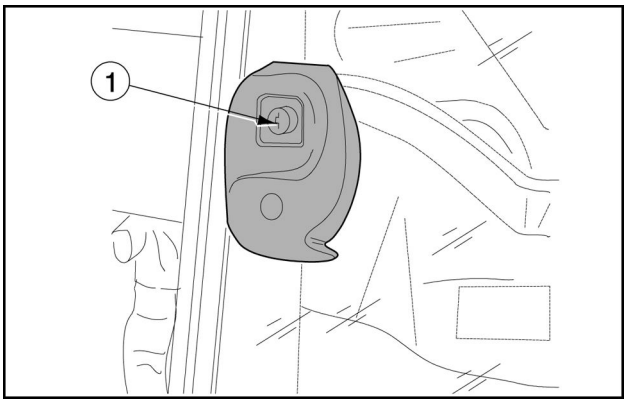


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DOORS

Opening doors from outside

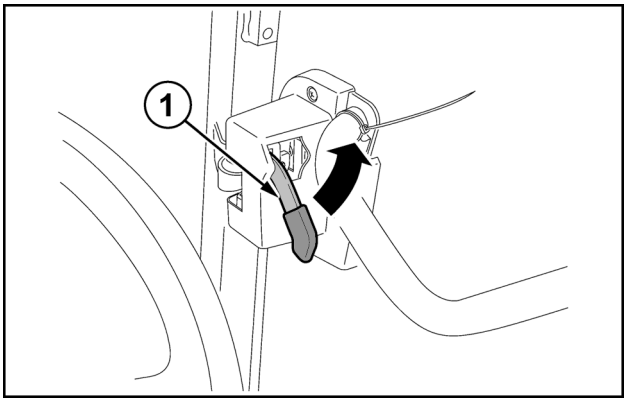
With the door unlocked, press button **(1)** and pull the door towards you.
The opening buttons **(1)** are both fitted with lock and key, so the cab can be locked from both sides.



DCSPVNEGB017S3A 2

Opening doors from inside

Pull lever **(1)** upwards.
By pushing the lever down, it is held in position by a mechanical catch, which prevents the door being opened from the outside.



DCSPVNEGB018S3A 3

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