ORIGINAL INSTRUCTIONS

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

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CS85 Pro
CS95 Pro
CS105 Pro
Tractors

OPERATOR'S MANUAL

Part Number 84410118
2nd edition English
January 2011
Replaces part number 84265440

CE

CASE IH AGRICULTURE

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SAFETY MESSAGES AND SAFETY PANELS

SAFETY MESSAGES USED IN THIS MANUAL

This warning symbol points out important messagrs concerning your safety.

Read the following safety regulations carefully and follow the recommendations in order to avoid potential hazards and safeguard your health and safety.

In this manual the symbol is accompanied by the following keywords:

DANGER

Indicates an immediate hazardous situation, that, if not avoided, will result in death or serious injury.

WARNING

Indicates a potential hazardous situation that, if not avoided, could result in serious injury.

CAUTION

Indicates a potentila hazardous situation that, if not avoided, may result in minor injury or machine damage. This can also be used to alert against unsafe practices.

Failure to observe the instructions preceded by the aforementioned key words may result in severe or fatal injury to the persons involved.

Furthermore, this manual also contains instructions preceded by the terms **NOTE** and **IMPORTANT**, with the following relevance in relation to machine protection:

IMPORTANT : *This is used to higlight important information for machine usage or specific procedures to prevent minor machine damages.*

NOTE: *This is used to identify and present supplementariy informations.*

INTENDED APPLICATION

This tractor is intended predominantly for use in agricultural, communal and forestry applications (intended application). The primary function of the tractor is to deliver tractive power, and can be used for pulling, pushing, carrying or operating defined items of equipment and machinery, or for pulling a trailer.

Any usage extending beyond the scope of the above list is defined as improper use. The manufacturer declines to accept any liability for resultant damage and injury. The operator is solely liable for such risk.

Correct usage also involves strict compliance with the operating, maintenance and repair instructions specified by the manufacturer.

This Case tractor can only be used, maintained and repaired by people who are familiar with the special characteristics of this vehicle and who have been advised of the relevant safety regulations (accident prevention).

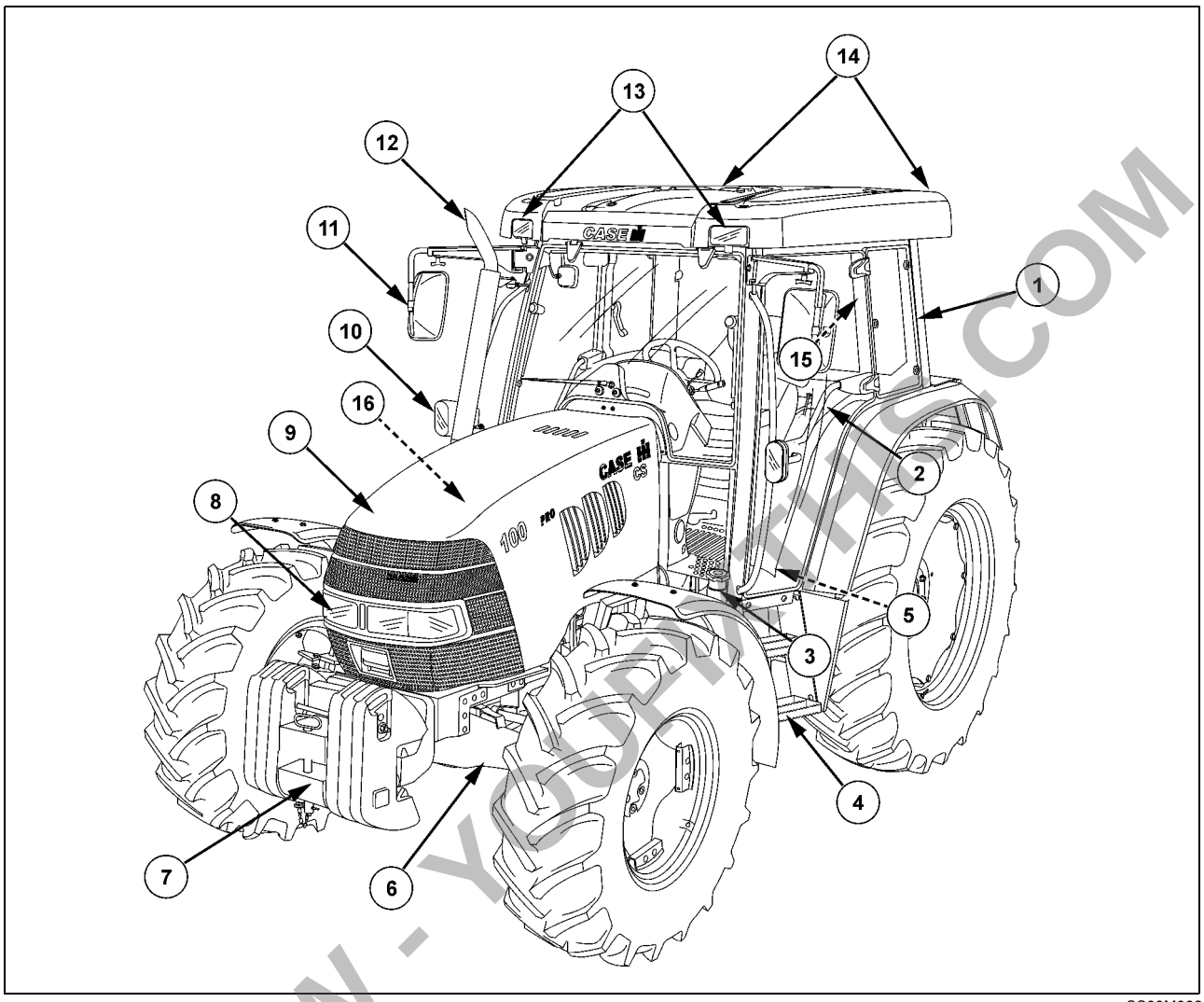
Due compliance is mandatory with all applicable accident prevention specifications and with other generally recognised directives and guidelines governing technical safety, health & safety at work and road traffic safety.

The manufacturer rejects any liability for damage or injury resulting from modifications made to this vehicle independently by the operator.

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TRACTOR'S MAIN COMPONENTS



SS09M062

1. Cab
2. Hand rail
3. Fuel tank
4. Steps
5. Transmission
6. Front axle
7. Front Hitch or 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. Emergency exit rear window
16. Tools box

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Graphic symbols

Warning - (Stop the tractor and look for the cause)

1. Coolant temperature too high red warning lamp lights up and critical alarm sounds 
2. Reservoir pressure of trailer brake system too low - graphic symbol on DMD display appears, red warning lamp lights up and red trailer brake symbol displayed 

3. Engine oil pressure too low - red warning lamp lights up and critical alarm sounds 
4. Engine speed exceeded - red warning lamp lights up and critical alarm sounds 
5. Brake fluid level too low- red warning lamp lights up and critical alarm sounds 
6. Water in fuel- yellow warning lamp lights up 
7. Transmission oil pressure too low- red warning lamp lights up and critical alarm sounds 
8. Front PTO temperature too high- red warning lamp lights up and critical alarm sounds 
9. Error display- yellow warning lamp lights up 

10. Error display- speed too high when changing direction of travel, actuate brake, yellow warning lamp lights up and non critical alarm sounds, 

Information

1. Liquid crystal - (LCD)/dot matrix display (DMD) brightness setting 

2. Coolant level too low - yellow warning lamp lights up 

Maintenance

1. Engine air filter blocked - yellow warning lamp lights up 
2. Small service - yellow warning lamp lights up 

3. Large service - yellow warning lamp lights up 

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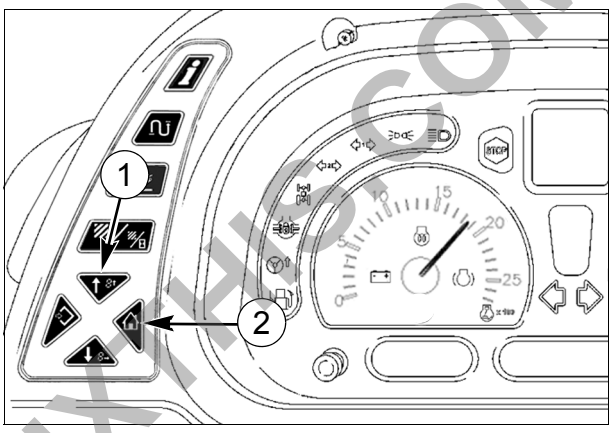
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PROGRAMMING THE DISPLAYS

Programming keys

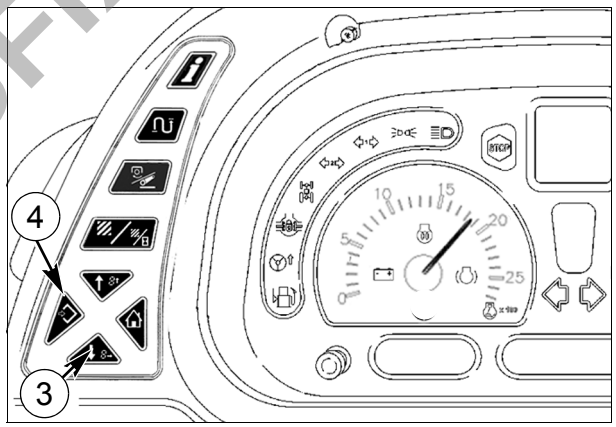
Four buttons are used to select, change or save the various functions that are connected to the ADIC and the function buttons. All program functions appear on the dot matrix display (DMD) together with the symbol for the selected function.

1. Menu upwards/number entry button. This button is used to scroll upwards through the function menu or increase the value of a selected number when making a setting. Pressing the key increases the value by one.
2. Home/ESC button. Use this button to close the menu that has been called up without saving any changes that have been made. This button can be pressed at anytime while making a setting to cancel or close the operation, but the values will be lost.



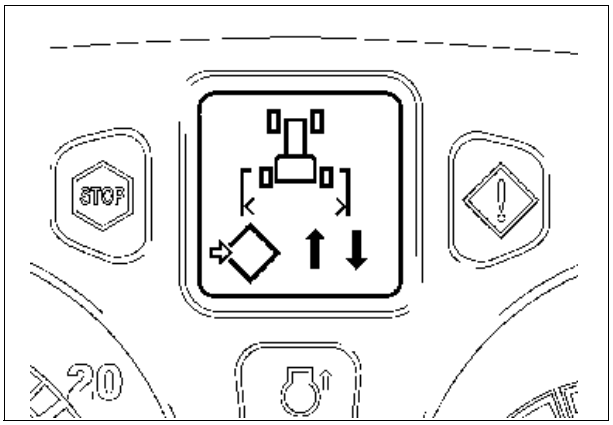
SS07F082

3. Menu downwards/number entry button. Thist button is used to scroll the menu down or select a number. On pressing this key, the flashing cursor, which shows the selected number, moves one place to the right.
4. Menu input key. Press this key for 5 seconds to access programming mode. **SETUP/MENU** will then first appear in the display. After 2 seconds the display then changes to **work width setting**. At the same time, the up/down arrows and the menu/enter symbol appear on the display.



SS07F082

As soon as the relevant function display appears press the menu/input key again to enter the "**work width setting**" menu.



SS03A019

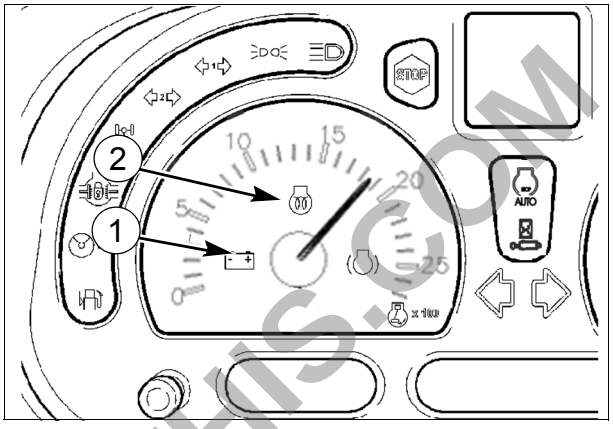
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STARTING PROCESS

WARNING: *The tractor can only be started while the driver is seated on the driving seat.*

The tractor is equipped with a cold start device. The use of the cold start device depends on the temperature and is indicated by the control lamp (2).



SS07F076

STEP 1

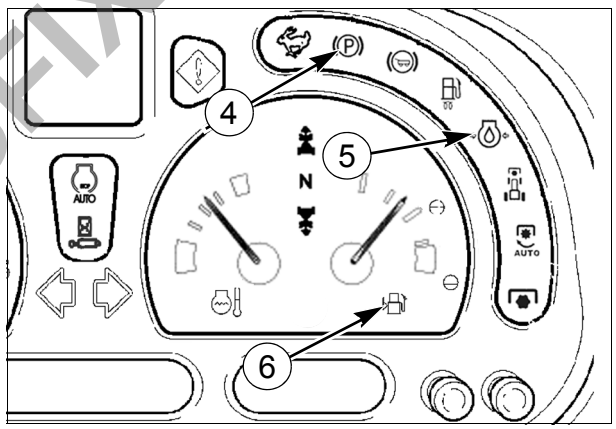
Switch on the main battery switch (if equipped with one).

Bring the front PTO (if available) into neutral.

STEP 2



Turn the start switch to ON



SS07F077

At first all control lamps will light up briefly, then the loading/oil pressure control (1+5) and the control lamp for parking brake engaged (4) will light up. The fuel supply (6) on the instrument panel is can be read as soon as the start switch is in the ON position.

STEP 3

Completely depress the clutch pedal, as otherwise the starter cannot be actuated (starter lock).



Turn the starter switch further until the START position.

As soon as the engine starts, release the start key.

All control lamps must go out except the control lamp for the engaged parking brake.

STEP 4

Check that all telltales indicate normal operating mode and that the coolant temperature gauge is within its central range once the engine has warmed up.

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Preparing thedrawbar

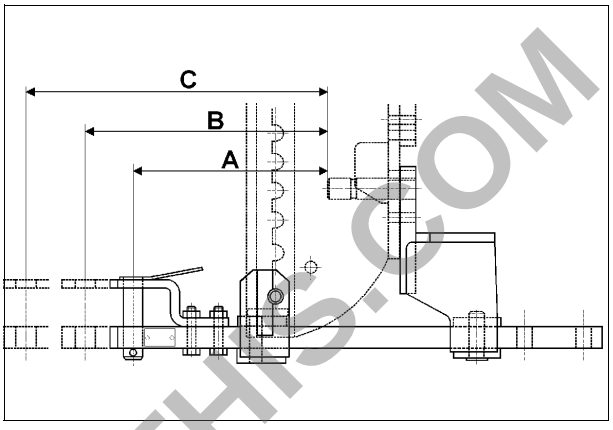
Drawbar swivel ranges for PTO operation in conjunction with three-point linkage

The drawbar, which is able to be swivelled and adjusted for length, can be set for different spacing between the end of the PTO and the middle of the trailer tow pin. Every drawbar position equates to one of the distances shown in the following table.

The positions A and B are used for devices that are powered by the PTO. The adjustable drawbar eliminates the need for any drawbar extensions to be fitted.

The drawbar can also be fitted in either of two offset positions.

Refer to equipment operating instructions and the following table and illustration of drawbar positions and towing loads.



SS97M098

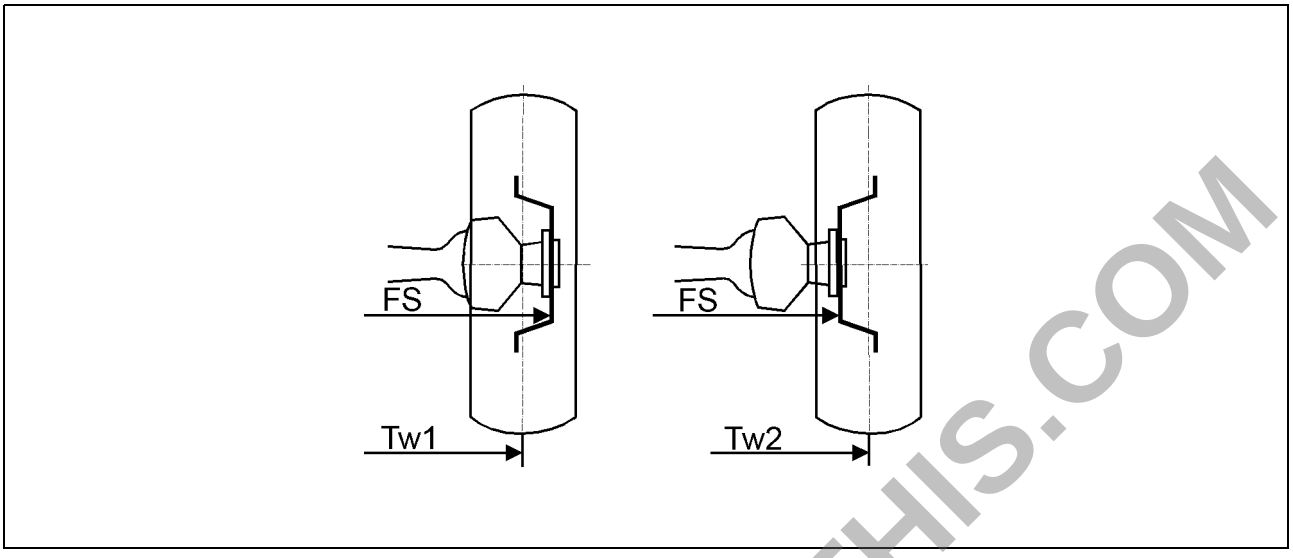
DRAWBAR POSITIONS	“A”	“B”	“C”
DISTANCE BETWEEN PTO END AND DRILLHOLES FOR RIG PIN	350 mm	400 mm	500 mm
MAXIMUM STATIC DOWNWARD LOAD	1000 kg	800 kg	650 kg

To set the vertical position of the drawbar remove the rear fastening bolts and the front drawbar swivel pin.

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Track widths for all-wheel front axle with fixed wheels



SS09M059

MODEL	TYRES	FS = 1640	
		Tw1	Tw2
CS85 Pro CS95 Pro CS105 Pro	375 / 75 R 20	1617	1648
	12,4 - 24 12.4 R 24 13,6 - 24 13,6 R24 360 / 70 R24	1592	1672
	425 / 75 R 20 12,4 - 24 12.4 R 24 13,6 - 24 13,6 R24 360 / 70 R 24 380 / 70 R 24 400 / 70 R 24 440 / 65 R 24 14,9 - 24 14.9 R 24 420 / 70 R 24 480 / 65 R 24 13.6 R 28 380 / 70 R 28 440 / 65 R 28	-	1754

FS = flange size
Tw = track width

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DRIVING OPERATION

BEFORE STARTING THE ENGINE

WARNING: *Only start the engine from the driving seat.*

WARNING: *Before switching on the engine ensure that all operating elements are in the neutral position and that the handbrake is on This will prevent the machine from inadvertently driving off or that a PTO driven implement will start to run.* M106E

WARNING: *Do not run the engine in confined spaces without suitable ventilation. Always ensure the presence of adequate ventilation.* M142A

Before starting the tractor for the first time, pay due attention to the following points. See the LUBRICATION/ MAINTENANCE SCHEDULE on page 201 in this manual.

1. Ensure that everyone driving the tractor or carrying out maintenance work on the vehicle understands the great importance of clean fuel.
2. Check the oil levels in engine crankcase and transmission.
3. Check the water level in the battery.
4. Ensure that the fuel tank is filled with clean fuel which complies with the fuel specification in this manual. Clean the area around the fuel cap prior to unscrewing it.
5. Check the fuel system, cooling system and the engine oil pan for any signs of leakage.
6. Check that the alternator fan belts, the air compressor and the air conditioner compressor are at the correct tension.
7. Check the fuel pre-filter for contamination (visual check) and clean if required.
8. Open the fuel filter drain plug and drain off the water.
9. Check that tyres are at correct pressure.
10. Cover PTO shaft with the guard provided.
11. Check coolant level in cooling system. If necessary, add cooling water and anti-freeze (ethylene glycol).

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ENGINE

General information

4-cylinder four stroke engine with direct injection and exhaust-gas turbocharger			
Model	**CS85 Pro**	**CS95 Pro**	**CS105 Pro**
Designation	WD 420.93	WD 420.94	WD 420.95
Firing sequence	1-2-4-3		
Hole diameter	108 mm		
Stroke	120 mm		
Cubic capacity	4400 cm^3		
Compression ratio	18,5:1		
Engine capacity			
ECE R120	63 kW (85.5 hp)	68 kW (92.5 hp)	74.5 kW (101 hp)
At an engine speed of	2300 rpm		
Maximum engine rating			
ECE R120	63.5 kW (86 hp)	68.5 kW (93 hp)	75 kW (102 hp)
At an engine speed of	2100 rpm		
Rated engine speed	2300 rpm		
Idle speed	800 rpm		
Maximum torque rating			
ECE R120	330 Nm	365 Nm	397 Nm
At an engine speed of	1400 rpm		
Tappet clearance (cold)			
(exhaust)	0.35 mm		
(intake)	0.35 mm		

NOTE: *The engine must be stationary before valve clearance is adjusted.*

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