MAINTENANCE CHART

Maintenance Chart

Interval	Page Nr.	Maintenance Action	Nr. of pts	Control	Form level	Position	Clean	Tyre inflation	Tighten	Drain fluid	Fill up	Grease	Change fluid
AS REQUIRED	**7-13**	Radiator expansion tank		X									
	7-13	Washer fluid reservoir			X								
	7-13	Light for driving on roads		X									
		Light for driving on roads		X									
	7-14	Clutch pedal adjustment				X							
	7-14	PARKING BRAKE				X							
	7-14	Radiator					X						
	7-15	Tyre pressure						X					
	7-15	Wheel nut torque							X				
	7-15	Footbrakes		X									
On display of a warning message	**7-16**	Engine air cleaners					X						
	7-17	Drain off fuel filter water								X			
		Drain off fuel filter water								X			
	7-17	Brake fluid level									X		
EVERY 10 HOURS OR DAILY	**7-19**	Engine oil level		X									
EVERY 50 HOURS	**7-20**	Rear wheel hub										X	
	7-20	Lift and linkage										X	
	7-20	2WD steering cylinder										X	
	7-21	4WD steering cylinders										X	
	7-21	2WD-front axle pin										X	
	7-21	4WD-front axle pin										X	
	7-22	4WD propeller shaft										X	
	7-22	2WD right and left-hand stub axle										X	
	7-22	Front lift arms shaft										X	
	7-23	Front PTO coupling										X	
EVERY 100 HOURS	**7-24**	Gearbox oil cooler					X						
	7-24	Air-conditioner condenser					X						
	7-24	Intercooler					X						
	7-25	Cab air filter					X						
	7-25	Cab recirculated air cleaner					X						
EVERY 200 HOURS		4WD-front axle pin										X	
		4WD propeller shaft										X	
		4WD front axle oil breather		X									
		4WD front axle washers										X	

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8 - TROUBLESHOOTING

FAULT CODE RESOLUTION

Display fault codes

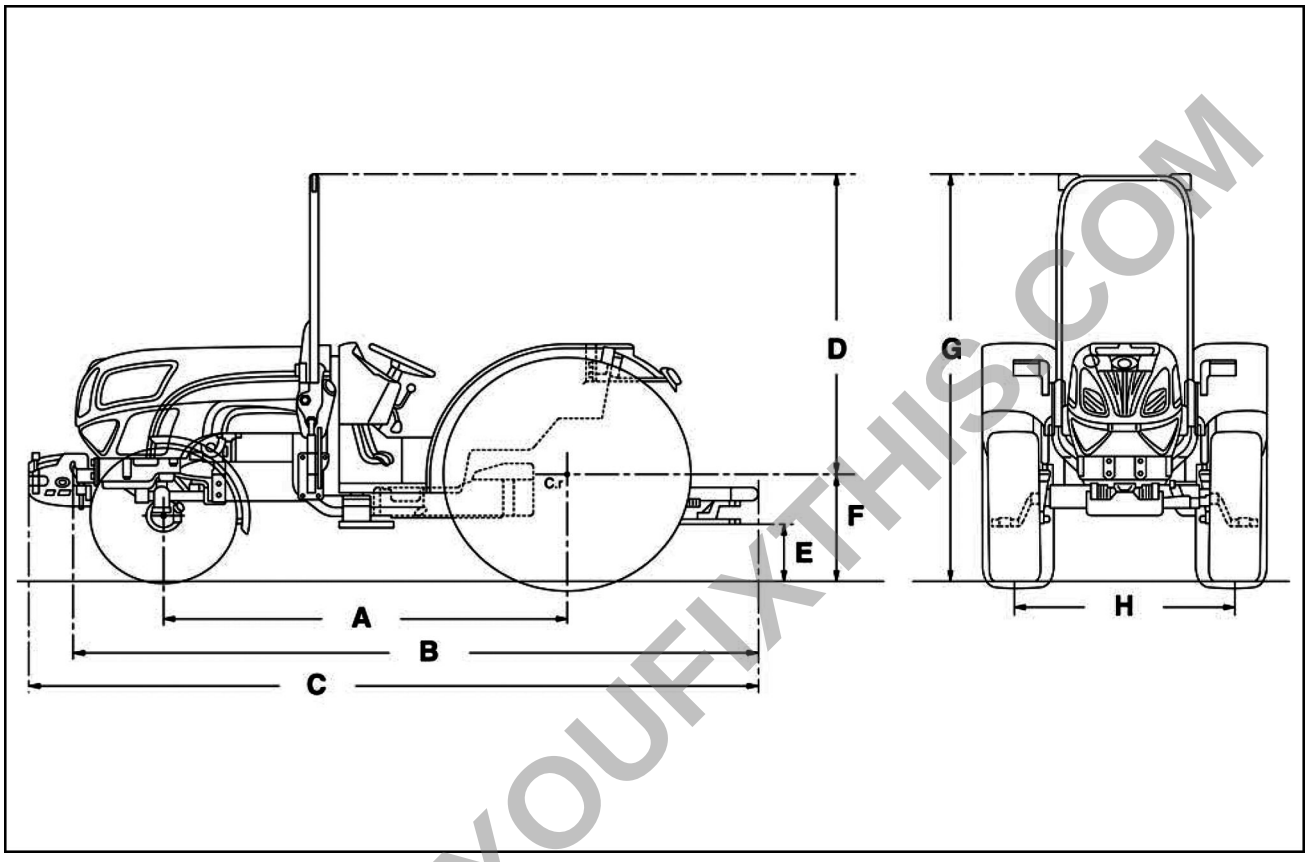
Fault code	Symbol	Function	Audible warning	Indicator (Amber) on
14001		Rear PTO short to VCC	NO	YES
14002		Rear PTO short to GND	NO	YES
14011		Engine speed sensor short to VCC or open circuit	YES	YES
14012		Engine speed sensor short to GND	YES	YES
14015		5 V supply voltage too high	NO	YES
14016		5 V 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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9 - SPECIFICATIONS

Technical data



DCSPVNEGB001S9F 1

DIMENSIONS OF 2WD MODELS WITH ROLL BARS

Dimensions	T4030F - T4040F		T4050F - T4060F	
	mm	in	mm	in
A	**2082,5**	**82.00**	**2169,5**	**85.5**
B	**3682**	**145.00**	**3769**	**148.4**
C	**3914,5**	**154.1**	**4001,5**	**157.5**
D	**1749,5**	**68.9**	**1749,5**	**68.9**
E	**323**	**12.7**	**323**	**12.7**
F - min.	**525**	**20.7**	**525**	**20.7**
F - max	**675**	**26.6**	**675**	**26.6**
G - min.	**2274,5**	**89.5**	**2274,5**	**89.5**
G - max	**2424,5**	**95.5**	**2424,5**	**95.5**
H - front track setting (**6.50 - 16** tyres)	**1146 - 1546**	**45.1 - 60.9**	**1146 - 1546**	**45.1 - 60.9**
H - rear track setting (**13.6 R 28** tyres)	**1058 - 1570**	**41.7 - 61.8**	**1058 - 1570**	**41.7 - 61.8**

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4 - OPERATING INSTRUCTIONS

STARTING THE UNIT

STARTING SYSTEM - 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

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 familiarized yourself with all the controls. Finding out once the tractor is moving may be too late.

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

Particular attention needs to be paid to the tractor’s running−in period, to obtain the best operating reliability and service life for which it is designed and built.

With regard to the reliability and service life of your tractor, study Section 7 carefully. Section 7 contains details of all the lubrication and general maintenance operations to be carried out on the tractor.

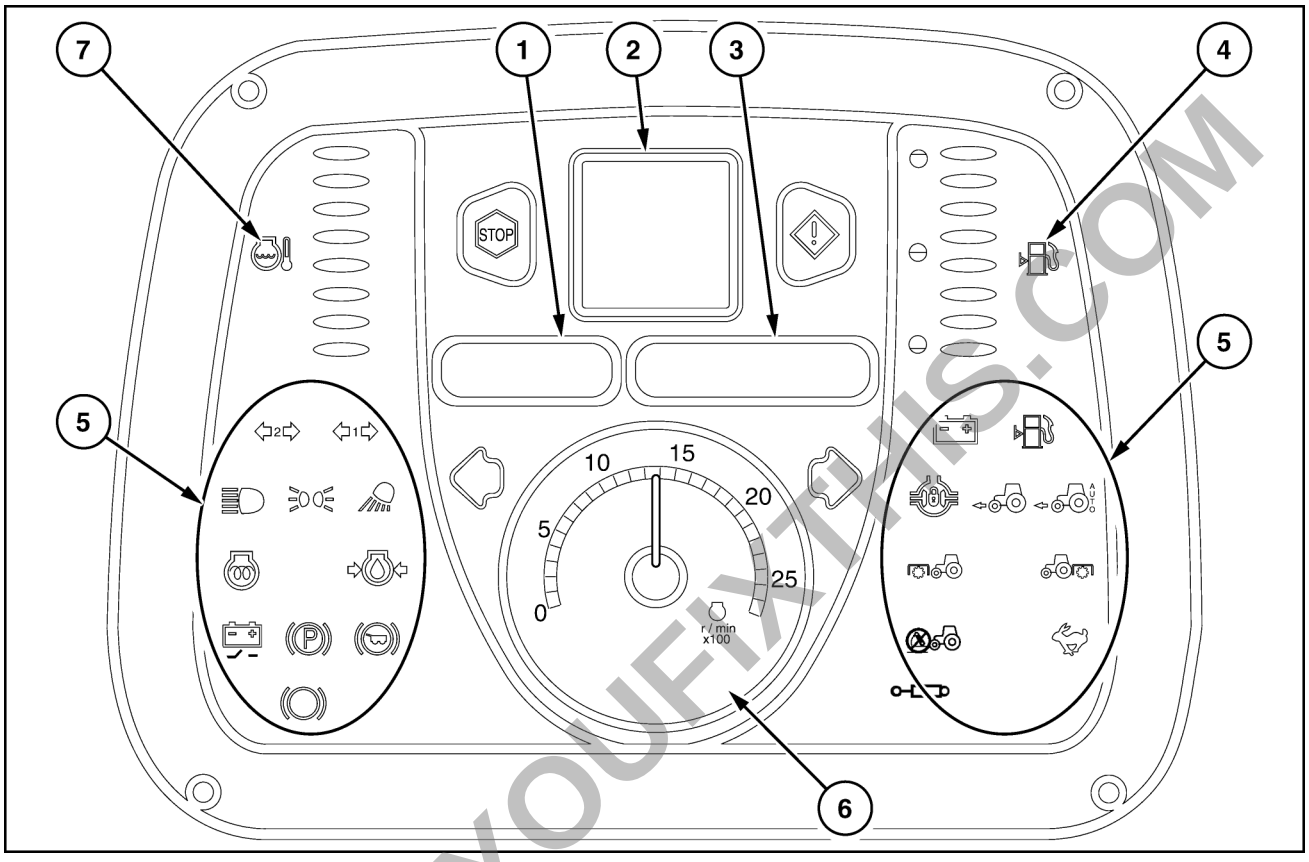
Tractor specifications are listed in Section 9.

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FORWARD CONTROLS

Digital dashboard



DCSPFNEGB066S3F 1

1. Left-hand digital display − This display shows the tractor ground speed in **- km/h** (**- mph**)
2. Information display - The display shows information on the operational condition of the machine in the form of symbols or code numbers.
3. Right-hand digital display - This display provides the following information:
   - Rear PTO speed or, where applicable, the front one.
   - Clock.
   - Position of the rear lift or, where applicable, of the front one.
4. Fuel level histogram
5. Warning lights
6. Tachometer/rev-counter
7. Engine coolant temperature indicator histogram

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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

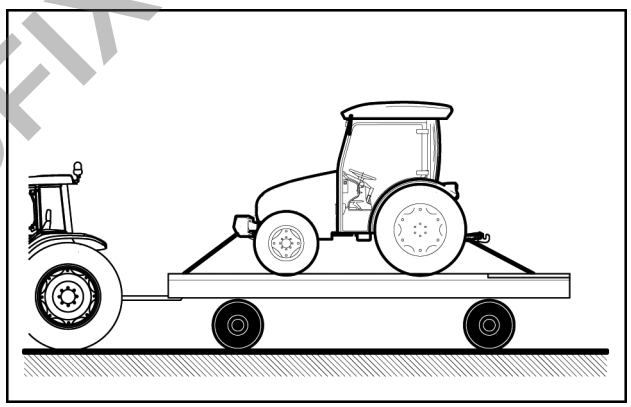
Transport hazard!
Collision of high speed road traffic and slow moving machines can cause death or personal injury. On roads use transport lighting according to local laws. Make sure the Slow Moving Vehicle (SMV) emblem is visible.
Failure to comply could result in death or serious injury.

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.

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CALIBRATIONS

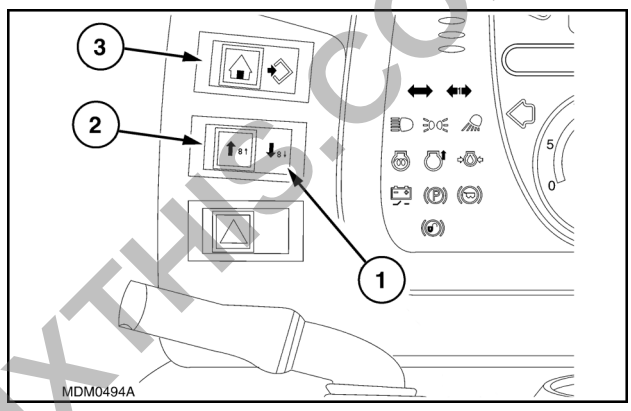
Dual command calibration

⚠ 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.

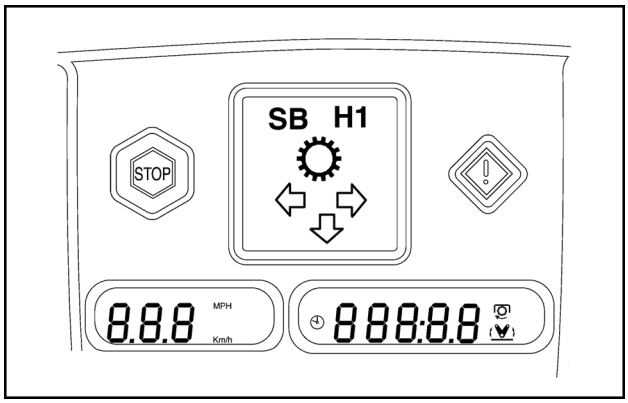
W0300A

1. Do the setting as described below.
   During the setting procedure, if a four digit number starting with 2 is displayed, it is a standard error code. Before doing the calibration it is necessary to remedy the trouble.
   To enter this mode press the service symbol on the switch **(3)** while starting up the engine. Scroll through the **HH** menu using the arrows **(1)** and **(2)** on the switch of fig. **1**, to select code **SB** and menu **H1**, as in fig. **2**. (Shortcut − press and hold switch **(3)** fig. **1** (Home) while starting the engine. Kick on release). **"CAL"** will briefly be displayed on the display at bottom right of the instrument cluster as in fig. **3**, then the oil temperature (degrees Celsius) will be displayed (XXC or XXXC).



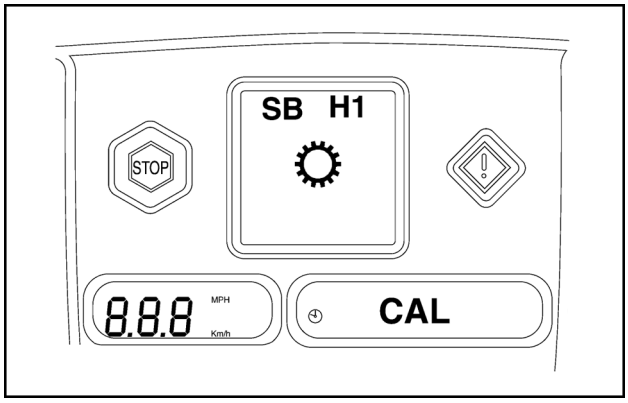
DCSPVNEGB084S7A 1

2. Select 3rd range and 1st gear.
   Turn off the air−conditioner, where applicable.
   Set engine to **1300 RPM** +/− 100 and release the clutch pedal. Engine speed must be stable, with no noticeable hunting or surging. If necessary, change the throttle setting slightly to achieve a stable engine rpm.



DCSPVNEGB085S7A 2

3. Check that the handbrake is on. Release the clutch pedal.
   Place the shuttle lever in forward (NOT IN NEUTRAL or REVERSE).
   THE SETTING IS ONLY POSSIBLE WITH THE OPERATOR SITTING IN THE DRIVING SEAT.



DCSPVNEGB086S7A 3

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Interval	Page Nr.	Maintenance Action	Nr. of pts	Control	Form level	Position	Clean	Tyre inflation	Tighten	Drain fluid	Fill up	Grease	Change fluid
EVERY 300 HOURS	**7-26**	Alternator belt		X									
		Alternator belt		X									
	7-26	Battery		X									
	7-26	Gearbox oil filter											X
	7-27	Engine air cleaners					X						
	7-27	Gearbox oil level									X		
	7-28	4WD front axle housing		X									
		4WD front axle housing		X									
	7-28	4WD front axle final transmissions											X
		4WD front axle final transmissions		X									
	7-28	4WD front stub axle										X	
	7-29	2WD front wheels										X	
EVERY 500 HOURS	**7-30**	Engine oil and filter											X
	7-32	Fuel prefilter					X						
EVERY 600 HOURS	**7-33**	Engine oil and filter											X
EVERY 1200 HOURS OR ANNUALLY	**7-36**	Cab air filters					X						
	7-36	Cab recirculated air cleaner					X						
	7-37	Fuel tank					X						
EVERY 1200 HOURS OR EVERY 2 YEARS	**7-38**	4WD front axle housing											X
	7-38	Engine valves		X									
	7-39	Change gearbox oil											X
	7-40	Flush cooling system					X						
		Flush cooling system					X						
EVERY 1800 HOURS	**7-43**	Fuel injector		X									
ELECTRICAL SYSTEM	**7-44**	Battery		X									
	7-46	Battery switch		X									
	7-52	Electrical Power Sockets		X									
		Electrical Power Sockets		X									
	7-53	Light				X							
BODYWORK MAINTENANCE	**7-62**	General Information		X									
FLUIDS AND LUBRICANTS	**7-64**	LUBRICATION SYSTEM											X
		LUBRICATION SYSTEM											X
		LUBRICATION SYSTEM											X

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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
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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FRONT BALLAST			
Each plate	**25 kg** (**55.12 lb**)		Max. 4 plates
Each plate	**25 kg** (**55.12 lb**)		Max. 6 plates
Each plate	**40 kg** (**88.2 lb**)		Max. 6 plates

REAR BALLAST			
Each ring	**28 "** and with **30 "** tyres	**50 kg** (**110.2 lb**)	Max. 4 rings

WEIGHTS OF 2WD TRACTORS WITH ROLL BAR WITHOUT BALLAST WEIGHTS	
T4030F ● T4040F	**2762 kg** (**6089.2 lb**)
T4050F ● T4060F	**2842 kg** (**6265.5 lb**)

WEIGHTS OF 4WD TRACTORS WITH ROLL BAR WITHOUT BALLAST WEIGHTS	
T4030F ● T4040F	**2832 kg** (**6243.5 lb**)
T4050F ● T4060F	**2912 kg** (**6419.9 lb**)

WEIGHTS OF 2WD TRACTORS WITH CAB WITHOUT BALLAST WEIGHTS	
T4030F ● T4040F	**2840 kg** (**6261.1 lb**)
T4050F ● T4060F	**2930 kg** (**6459.5 lb**)

WEIGHTS OF 4WD TRACTORS WITH CAB WITHOUT BALLAST WEIGHTS	
T4030F ● T4040F	Standard axle **2910 kg** (**6415.5 lb**)
T4050F ● T4060F	Standard axle **3000 kg** (**6613.9 lb**)

ENGINE SPECIFICATION	
T4030F	**F5A E9484 B*A 001**
T4040F	**F5A E9484 G*A 006**
T4050F	**F4C E9484 M*J 603**
T4060F	**F4C E9484 L*J 603 ● F4C E9484 L*J 602**

Clutch	**11 "**
injection pump	**BOSCH**
Intake	Turbocharger + intercooler
Number of cylinders	**4**
Injection Sequence	**1 − 3 − 4 − 2**
Bore and stroke:	**T4030F ● T4040F** - **99 mm** (**3.90 in**) x **104 mm** (**4.09 in**) **T4050F ● T4060F** - **104 mm** (**4.09 in**) x **132 mm** (**5.20 in**)
Total displacement	**T4030F ● T4040F** - **3200 cm³** (**195.28 in³**) **T4050F ● T4060F** - **4485 cm³** (**273.69 in³**)
Compression ratio	**T4030F ● T4040F** - 18 : 1 **T4050F ● T4060F** - 17.5 : 1

Maximum horsepower (ECE R120)

T4030F	**57 kW** (**77 Hp**)
T4040F	**65 kW** (**88 Hp**)
T4050F	**71 kW** (**97 Hp**)
T4060F	**79 kW** (**107 Hp**)

Torque Rise

T4030F	**39 %**
T4040F	**30 %**
T4050F	**35 %**
T4060F	**31 %**

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STARTING SYSTEM - Start

RUNNING-IN PROCEDURE

Your tractor will guarantee reliable service if care is taken during the running−in period (first 50 hours of work), and if the maintenance recommendations in section 7 (Maintenance) are carefully followed.

Before operating the tractor, ensure that you are thoroughly familiar with the location and operation of the controls.

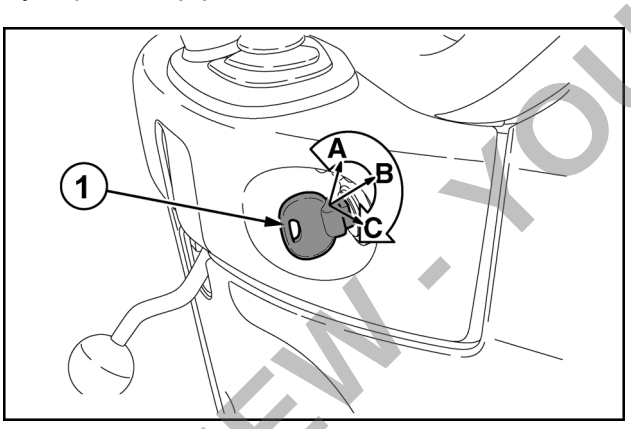
Starter switch

To obtain the three starter key-switch **(1)** functions, press the key and turn it to the following positions:

A No power supply to any of the circuits (key can be removed). Engine stopped: automatic activation of fuel injection cut-off.

B Standby for engine start up. Operation of indicators and instrument cluster. Power supplied to various circuits.

C Engine starting: if released, the key returns automatically to position **(B)**.



DCSPVNEGB001S4A 1

Starting the engine

1. To start the engine it is first necessary to connect the battery to the electric system with the specific device (external mechanical isolator or push-button inside the cab).
2. If the tractor has not been used for some time, or is started up for the first time in low outside temperature conditions, operate the fuel pump starting lever approximately twenty times and allow the engine to run for **5 ÷ 10** seconds with the injection pump in the “stop” position.
3. Press down the clutch pedal, place the shuttle control lever in neutral to close the starting safety device switch.
4. Move the throttle lever to around the half way position.
5. Turn the starter key to position **(C)** figure **1**. Release the key as soon as the engine starts.

ATTENTION: *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.

*Especially when the external temperature approaches **0 °C** (**32.0 °F**), run the engine at **1300 - 1500 RPM** for approximately 5 minutes in order to heat the oil in the rear transmission to working temperature.*

Starting in low outside temperature

When the outside temperature is low and the engine is cold, cover the radiator before starting so that the engine coolant can quickly reach the correct temperature. Then remove the cover. Note too the following warnings:

- To avoid running down the battery, any single engine starting attempt should not last longer than **15 s**; if, however, the engine fires but does not start, continue the attempt up to a maximum of **30 s**.
- Wait at least one minute between attempts to start the engine.
- To avoid excessively running down the battery, do not make more than six attempts to start the engine.

With outside temperatures below **0 °C** (**32.0 °F**), in order to prevent separation of the paraffin components in the diesel fuel, leading to a reduction in fluidity and subsequent fuel supply problems (especially when starting the engine), mix the diesel fuel with the antifreeze (or a similar product) in the proportions described on the container.

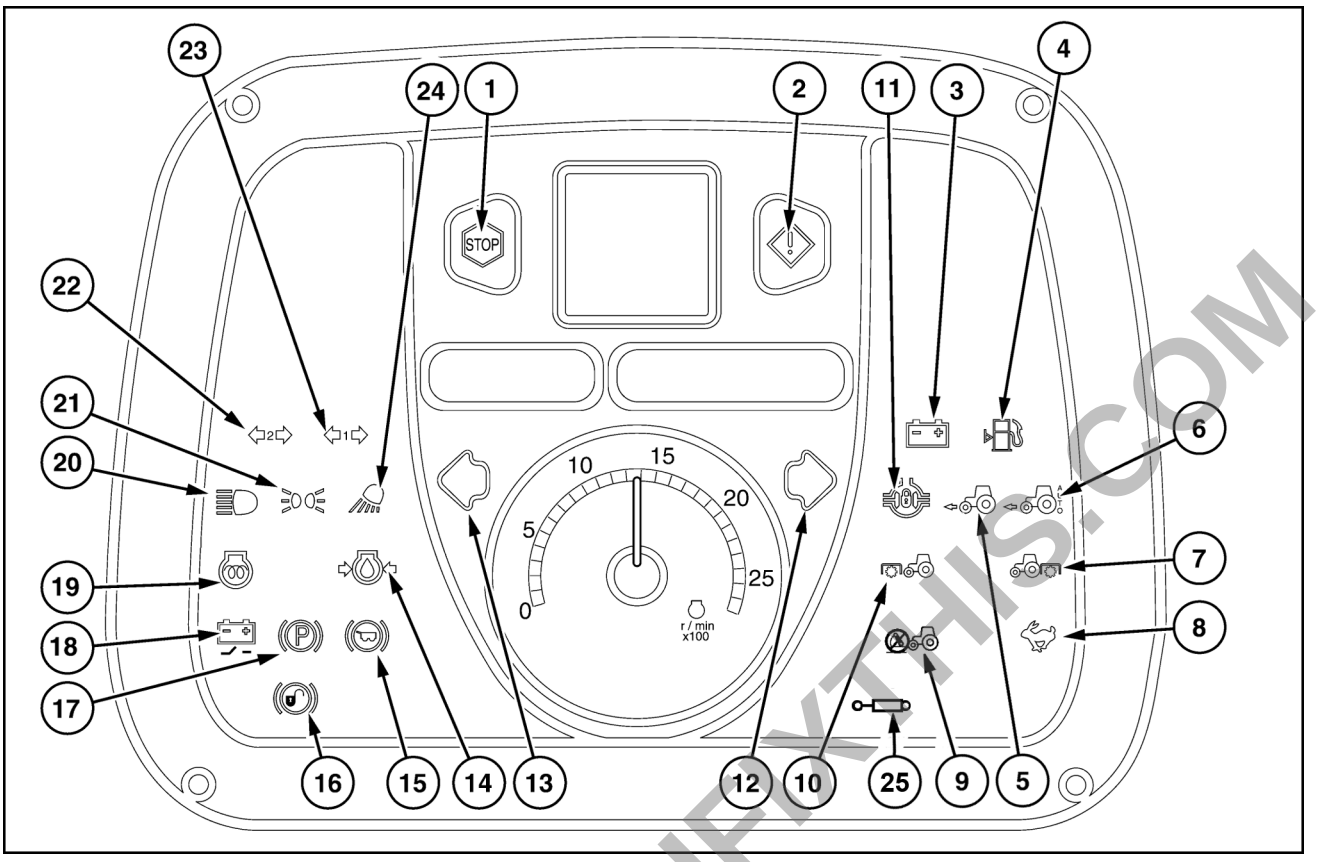
The antifreeze must be mixed with the diesel fuel before there is any sign of paraffin separation; adding it later will have no effect on an engine if the cold has already caused the engine to stop running or prevent it being started.

Put the antifreeze in the tank first, followed by the diesel fuel.

The antifreeze will ensure that there is an optimum fuel supply to the engine without reducing performance, even where the external temperature drops below **-20 °C** (**-4.0 °F**).

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DCSPFNEGB065S3F 2

1 

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 confirming the location of the fault.

2 

Indicator lamp (amber)

This indicator light comes on and the display shows a warning symbol . The light blinks for 4 seconds, after which the symbol on the display disappears and the indicator light stays on steady. To display the fault, you need to go to the menu. Stop the tractor and investigate the cause of the trouble.

3 

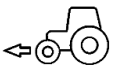
Battery charging system failure (red)

This warning light should switch off as soon as the engine starts. If the light stays on when the engine is running, switch off the engine and find the cause of the problem.

4 

Fuel gauge (amber)

The light comes on when the tractor needs refuelling.

5 

Four−wheel drive (green)

This warning light comes on when the four−wheel drive is automatically engaged.

6 

Four−wheel drive automatic control (green)

This warning light comes on when with the respective button you select the automatic four−wheel drive engagement mode.

7 

Power take−off (amber)

This warning light comes on when the engine is running and the power take-off is engaged.

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