LUBRICATION AND MAINTENANCE TABLE

The numbers in the second column are with reference to the operations and illustrations in the following pages of this section.

Hours of work	Operation number	Maintenance operation	Functional check	Top up	Clean	Grease	Adjust	Replace	Page
Flexible maintenance	1	Engine clutch					●		4–8
	2	Brake pedal					●		4–9
	3	Alternator belt	●						4–9
	4	Outlet valve, dry air filter			●				4–10
	5	Radiator (expansion tank)		●					4–10
	6	Tractor light	●						4–10
	7	Transmission parking brake	●						4–11
	8	Radiator			●				4–11
	9	Tire pressure	●						4–12
	10	Wheel disks nut torque	●						4–12
With warning light ON	11	Main cartridge, dry air filter			●				4–13
	12	Brake fluid reservoir	●	●					4–14
	13	Fuel filter water drain			●				4–14
Every 10 hours	14	Engine oil level	●	●					4–15
Every 50 hours	15	Hydraulic lift and linkage				●			4–16
	16	Steering cylinder 4WD				●			4–16
	17	Front axle rear pivot 4WD				●			4–16
	18	Front axle front pivot 4WD				●			4–17
	19	Rear Wheel Hubs				●			4–17
Every 100 hours	20	Intercooler			●				4–17

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ENGINE

PROBLEM	POSSIBLE CAUSE	SOLUTION
The engine will not start or is difficult to start.	Incorrect starting procedure.	See starting procedure.
	Fuel level low or empty.	Check 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.
The engine does not run properly and/or cuts out.	Fuel system contaminated.	Clean system.
	Fuel injector fault.	Contact your dealer.
Engine does not reach maximum 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.

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ENGINE SPECIFICATION

Model	**TD4040F**
Engine type	IVECO
	F5AE9484G*A 008
BOSCH Injection pump	4–stroke diesel, direct injection
Turbocharged	YES
Intercooler	YES
Emission level	Stage 3
Number of cylinders	4
Bore and stroke mm (in)	99 x 104 (x 4.1)
Total displacement cm^3 (cubic in)	3200 (195.28)
Compression ratio	18.0:1
Max Torque (Nm@rpm)	352@1250
Engine power ECER120: kW@rpm CV@rpm	 65@2300 88@2300

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OPERATION

⚠ CAUTION ⚠

Before starting the engine and moving the tractor, follow the instructions written below.

- Do not start or operate the tractor in an enclosed area.
- Before starting the engine, check that all controls are in neutral.
- All controls must be actuated only from the driver's seat.
- Stop the engine before carrying out any service or maintenance operations on the tractor.
- Use the steps provided for entering and leaving the tractor.
- Keep the guards properly fitted.
- When moving on the roads, signal your intention to stop, turn or slow down.
- Use the appropriate warning devices to indicate a slow–moving vehicle.

STARTING THE ENGINE

a. If the tractor has not been used for some time, or if started up for the first time at a low surrounding temperature, actuate the fuel pump starting lever around twenty times.

b. Ensure that both gear levers are in neutral position.

c. Move the throttle lever to around the half way position.

d. Turn the ignition key to position B, Figure 1. With the ignition key turned to position B, the thermostart light (1), Figure 2 comes on. At the same time grid heater starts heating.

Thermostart system automatically regulates heating time depending on ambient temperature.

e. Wait until the thermostart light (1), Figure 2 come off then turn the ignition key to position **C**, Figure 1. Release the key as soon as the engine starts.

HOW TO START AND STOP

STARTING IN A LOW EXTERNAL TEMPERATURE

⚠ WARNING ⚠

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

— Any single engine starting attempt should not last longer than 15 seconds. If, however, the engine fires but does not start, repeat up to a maximum time of 30 seconds.

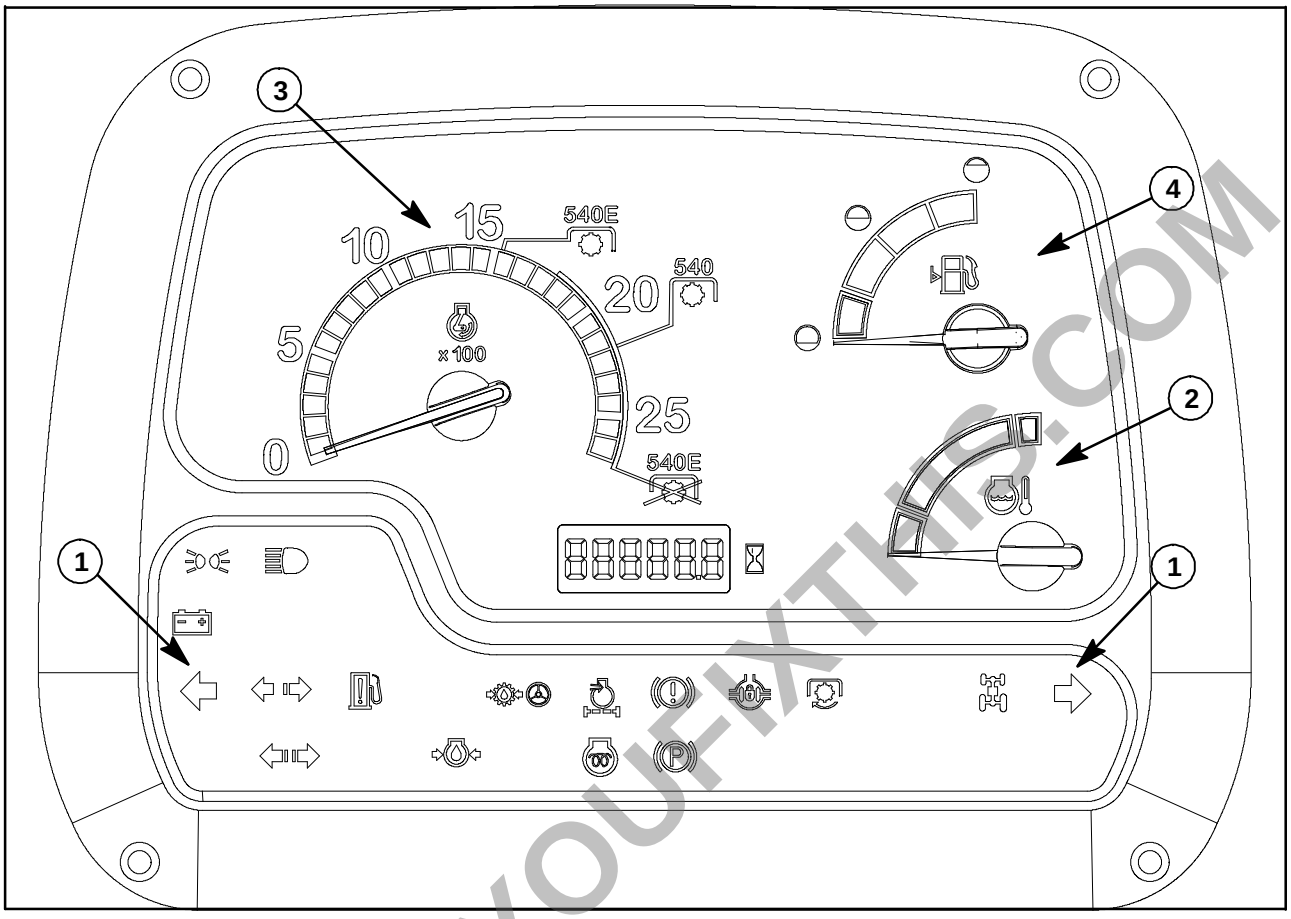
— Wait at least one minute between attempts to start the engine.

— It is advisable not to make more than six attempts to start the engine to avoid excessive battery run–down.

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INSTRUMENT PANEL



1

1. **Warning and indicator lights**

These lights illuminate to indicate a particular operation or to attract your attention.

2. **Engine coolant temperature gauge**

3. **Proofmeter / tachometer**

Hourmeter, engine speed counter, tachometer.

4. **Fuel gauge**

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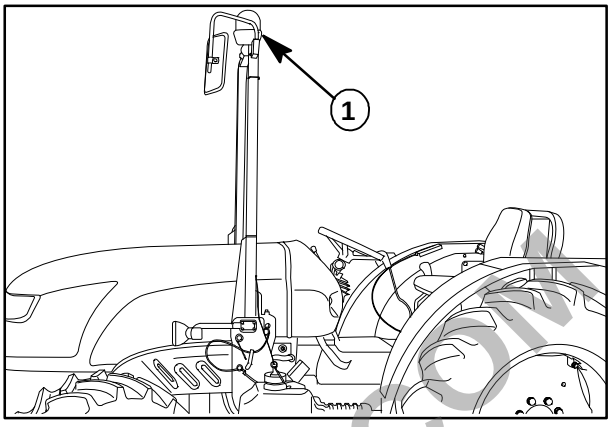
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BEACON LAMP – Figure 1 and Figure 2

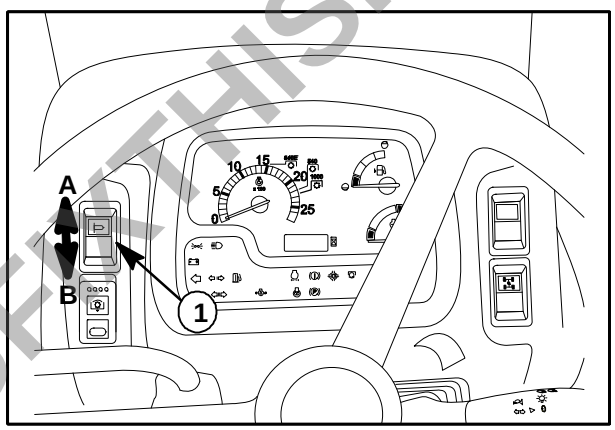
Beacon lamp (1) Figure 1 ON/OFF button (2) Figure 2.

Position A: ON

Position B: OFF



1



2

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Hours of work	Operation number	Maintenance operation	Functional check	Top up	Clean	Grease	Adjust	Replace	Page
Every 300 hours	21	Transmission and hydraulic lift oil filter						●	4–18
	22	Dry air filter (external cartridge)			●				4–18
	23	Engine Belt					●		4–18
	24	Battery	●	●					4–19
	25	King pin bearings 4WD				●			4–19
	26	Rear transmission and hydraulic lift oil		●					4–20
	27	Front axle housing 4WD	●	●					4–20
	28	Handbrake	●				●		4–21
	29	Front axle reduction hubs 4WD	●	●					4–21
Every 600 hours	30	Engine (drain oil and renew filter)						●	4–22
	31	Fuel Filter						●	4–23
Every 1200 hours or annually	32	Dry air filter (cartridges: internal and external)						●	4–24
	33	Fuel tank			●				4–24
	34	Drive shaft sleeve for 4WD front axle connection	●					●	4–25
Every 1200 hours or every 2 years	35	Front axle housing oil, 4WD						●	4–25
	36	Front axle final drive hubs oil, 4WD						●	4–25
	37	Engine cooling system			●			●	4–26
	38	Engine valves	●				●		4–28
	39	Transmission and hydraulic oil						●	4–28
Every 1800 hours	40	Fuel injectors	●				●		4–29
General maintenance		Bleeding the fuel system							4–30
		Bleeding the hydraulic brake system							4–31
		Electrical system							4–32
		Bodywork maintenance							4–37
		Lubrication capacities and specifications							4–38

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ENGINE

PROBLEM	POSSIBLE CAUSE	SOLUTION
Engine does not reach maximum power (cont.).	Valve clearance wrong.	Check and adjust.
	Idling speed too low.	Contact your dealer.
Abnormal engine knocking.	Oil level low.	Top up oil.
	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.
	Engine overload.	Change to lower gear or reduce load.
	Engine oil level low.	Top up oil level.
	Coolant level low.	Top up fluid level in expansion tank; check system for leaks.
	Radiator cap defective.	Replace cap.
	Fan belt slipping or worn.	Check tensioning device; replace belt if worn.

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TIMING

Valve clearance, engine cold :
For all models;
– inlet . . . . . mm (in) 0.25 ± 0.05 (0.0098 ± 0.00197)
– exhaust . . . . . mm (in) 0.50 ± 0.05 (0.0197 ± 0.00197)

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 filtration :
– replaceable cartridge filter in the injection pump feed line with water separator.

Double cartridge dry air filter, with centrifugal pre–filter and automatic dust extractor.

MODEL	**TD4040F**
Engine injection pump, number of orifices :	4

Injectors :	4 cyl.
– firing order :	1–3–4–2

LUBRICATION

Pressurised, by gear pump. Oil filtration : pressurised through pump intake mesh and replaceable cartridge filter on engine intake.
Lubrication pressure with engine hot and at max. speed.

On all models:
380 KPa (55.1 Psi) (3.87492 kg/cm^2).

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STARTING AND STOPPING

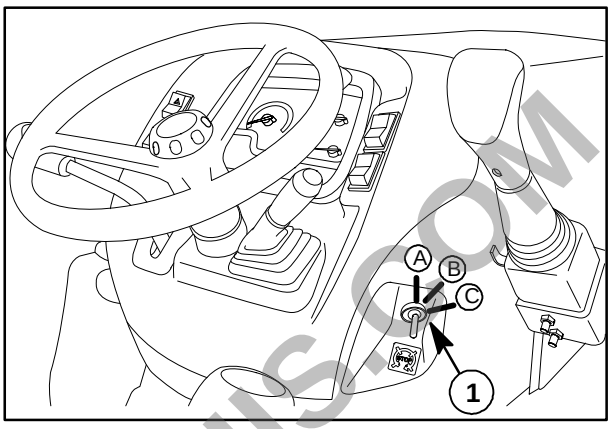
STARTING IN LOW OUTSIDE TEMPERATURE CONDITIONS

When starting the engine with low outside temperatures and when the engine is cold, proceed as follows:

1. Avoid running down the battery. Any single engine starting attempt shoud not last longer than 15 seconds. If the engine fires but does not start, continue the attempt up to a maximum of 30 seconds.

2. Wait for at least one minute between each attempt to start the engine.

3. To avoid excessively running down the battery, do not make more than six attempts to start the engine.

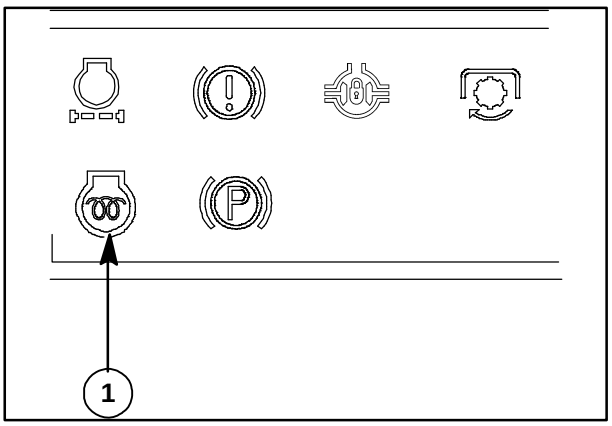


1

STARTING WITH MANUAL GRID HEATER

⚠ WARNING ⚠

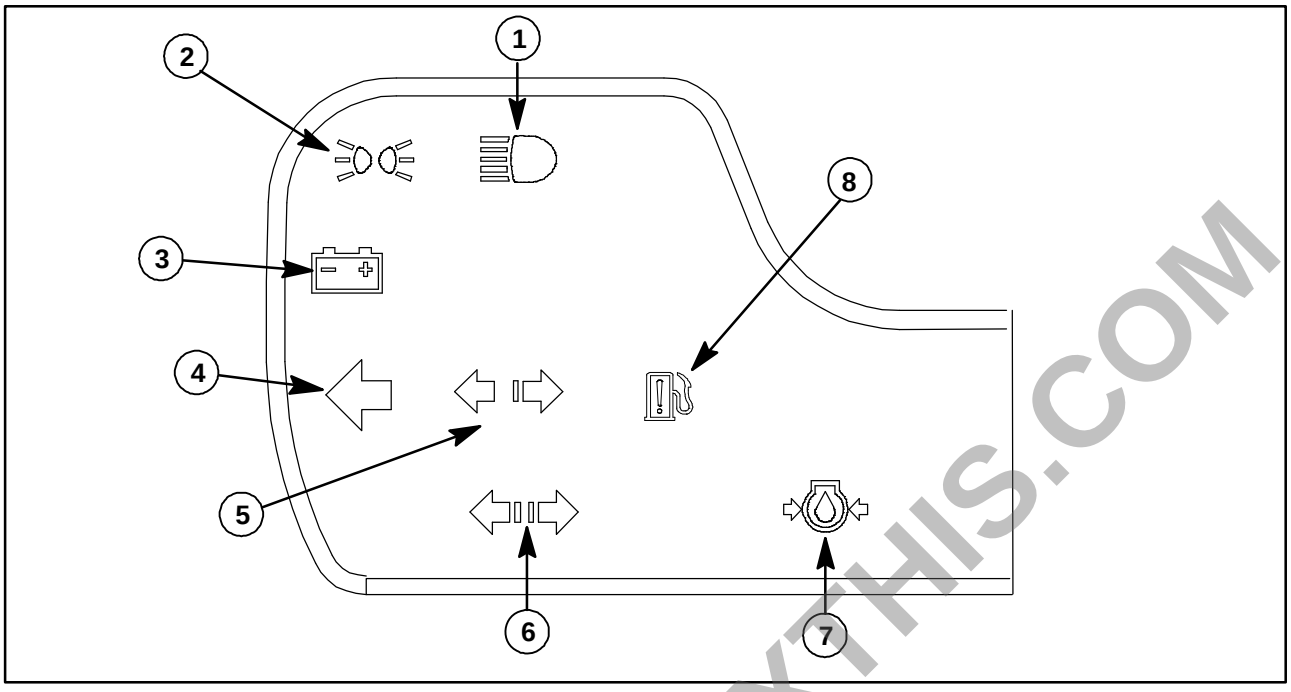
The tractor can be equipped with a device for starting in cold climates. Do not use ether with the grid heater installed. It will explode in the intake manifold.
If you find starting difficult in cold climates, refer to your dealer.



2

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5

1. Main beam indicator (blue)

The light illuminates when the headlights are on main beam.

2. Side lights indicator (green)

Lights up when the side lights are switched on.

3. Battery charging system malfunction light (red)

It should go out once the engine starts.

4. Tractor left turn indicator (green)

Flashes in unison with the tractor left turn indicators.

5. First trailer turn indicator lights (green) (Not used in North America)

Flashes in unison with the tractor turn indicators, if connected.

6. Second trailer turn indicator lights (green) (Not used in North America)

Flashes in unison with the tractor turn indicators, if connected.

7. Low engine oil pressure indicator (red)

The light should go out a few seconds after the engine is started.
If it stays on when the engine is running, switch off the engine and look for the cause of the problem. If the light remains on, particularly when the tractor is moving, contact your dealer. When the engine is warmed up and running at minimum speeds, with the tractor stationary, the light may illuminate, even if no faults are present.

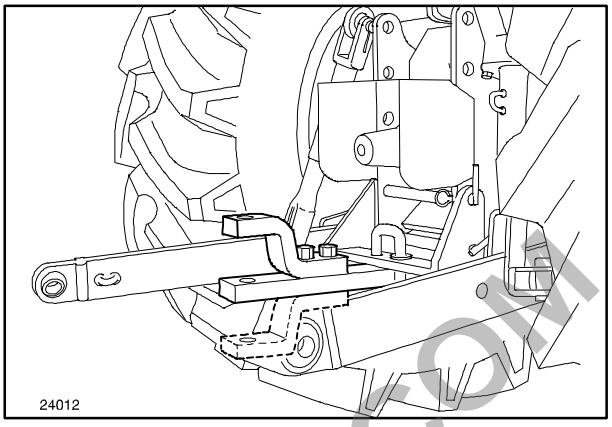
8. Water in fuel (red)

Flashes in case of water in fuel.

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SWINGING DRAWBAR – Figures 3 and 4



3

Use the swinging drawbar for implements, agricultural machinery and trailers with two axles.

Do not, on the other hand, use it for single–axle trailers as they apply excessive weight to the bar, which will risk tipping the tractor.

The wide horizontal trajectory of the bar is extremely useful for implements and machinery requiring lateral freedom of movement, such as balers.

This equipment can be supplied:

– with suitable brackets to fit either a rigid towing hook or a Rockinger hitch;

– with a bracket designed to fit only to a towbar.

The following adjustments can be made to the bar:

– height adjustment, by turning the fork to face upward or downward Figure 3;

– prevention of lateral swing by inserting limiter fork (**1**) Figure 4.

⚠ CAUTION ⚠

The towing equipment should be selected on the basis of the type of trailer or implement to be towed and should comply with current legislation.

– *The ease of handling and driving safety of the tractor depends on correct towing adjustment.*

– *A towing device fitted high up increases towing capacity but also means that the tractor has a tendency to tip back. Therefore ensure that the trailer shaft is not at too great an upward angle.*

– *When using four–wheel drive, the towing bracket should be in its lower position with the shaft almost horizontal.*

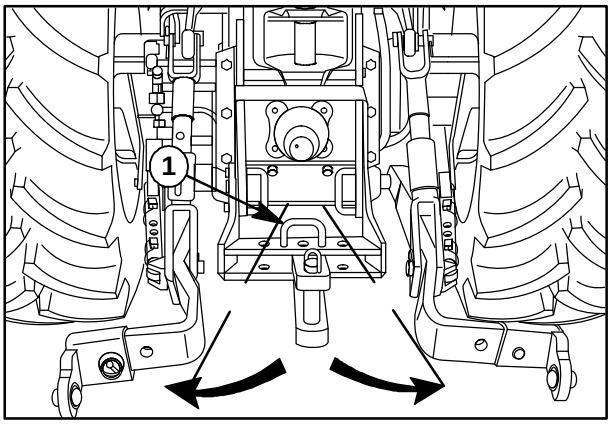
– *Avoid towing excessively heavy trailers or loads.*

– *Never start suddenly, as this also considerably increases the risk of tipping backwards.*

– *Always brake the trailer first and then the tractor.*

⚠ WARNING ⚠

Use the front towing fork for possible emergency trailer manoeuvres or for towing the tractor.



4

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